विद्यारत्नम् महद्धनम्

राजीव गांधी पेट्रोलियम प्रौद्योगिकी संस्थान

Rajiv Gandhi Institute of Petroleum Technology

वार्षिक प्रतिवेदन 2024-25

अप्रैल 2024 से मार्च 2025



आरजीआईपीटी जायस परिसर



आरजीआईपीटी शिवसागर परिसर



आरजीआईपीटी बेंगलुरु परिसर

nirf #78 ENGINEERING 2025

राष्ट्रीय महत्व का एक संस्थान

An Institution of National Importance

2025 International Year of Cooperatives Cooperatives Build a Better World

NICDC

स्वच्छ भारत एक कदम स्वच्छता की ओर

PM GatiShakti National Single Window System

MAKE IN INDIA

निर्देशिका

अध्याय 1 - निदेशक की रिपोर्ट	1
अध्याय 2 - संगठनात्मक स्वरूप	7
अध्याय 3 - संकाय मामले	9
अध्याय 4 - प्रशासनिक	15
अध्याय 5 - रासायनिक अभियांत्रिकी एवं जैवरासायनिक अभियांत्रिकी विभाग	19
अध्याय 6 - पेट्रोलियम इंजीनियरिंग और जियोइंजीनियरिंग विभाग	37
अध्याय 7 - इलेक्ट्रिकल और इलेक्ट्रॉनिक्स इंजीनियरिंग विभाग	58
अध्याय 8 - विज्ञान और मानविकी विभाग	71
अध्याय 9 - प्रबंधन अध्ययन विभाग	89
अध्याय 10 - कंप्यूटर विज्ञान और इंजीनियरिंग विभाग	97
अध्याय 11 - गणितीय विज्ञान विभाग	108
अध्याय 12 - कंप्यूटिंग और सूचना सेवा केंद्र (सीसीआईएस)	115
अध्याय 13 - शैक्षणिक कार्यक्रम और डिग्री का पुरस्कार	117
अध्याय 14 - पुस्तकालय	126
अध्याय 15 - छात्र गतिविधियां	129
अध्याय 16 - प्रशिक्षण और नियोजन	153
अध्याय 17 - अंतर्राष्ट्रीय एवं पूर्व छात्र संबंध	156
अध्याय 18 - अनुसंधान और विकास	159
अध्याय 19 - संस्थान निर्माण विभाग	167
अध्याय 20 - संस्थान छात्रावास	169
अध्याय 21 - असम ऊर्जा संस्थान, शिवसागर	170
अध्याय 22 - ऊर्जा संस्थान, बेंगलुरू	190
अध्याय 23 - वर्ष 2024-25 का अंकेक्षित वित्तीय प्रतिवेदन	203
अनुलग्नक 1 - वित्तीय वर्ष 2024-25 का लेखा	207
अनुलग्नक 2 - एस.ए.आर. रिपोर्ट 2024-25	267

निदेशक का संदेश

प्रिय साथियों,

नमस्कार

राजीव गांधी इंस्टीट्यूट ऑफ पेट्रोलियम टेक्नोलॉजी (RGIPT) की ओर से मैं आप सभी का हार्दिक स्वागत करता हूँ और हमारे प्रति आपकी रुचि के लिए धन्यवाद देता हूँ।

2008 में संसद के अधिनियम द्वारा स्थापित RGIPT, ऊर्जा क्षेत्र की छह प्रमुख भारतीय सार्वजनिक क्षेत्र की तेल कंपनियों और ऑयल इंडस्ट्री डेवलपमेंट बोर्ड द्वारा सह-प्रायोजित है। यह राष्ट्रीय महत्व का संस्थान है, जिसे उच्च गुणवत्ता वाले अनुसंधान एवं विकास कार्य करने और ऊर्जा एवं प्रौद्योगिकी से संबंधित विभिन्न क्षेत्रों में स्नातक, स्नातकोत्तर, डॉक्टरेट और डिप्लोमा डिग्री प्रदान करने का अधिकार प्राप्त है।

पिछले एक दशक से अधिक समय में RGIPT ने पेट्रोलियम इंजीनियरिंग और ऊर्जा क्षेत्र में तकनीकी नवाचार और रचनात्मकता के माध्यम से अग्रणी संस्थान के रूप में अपनी पहचान बनाई है। हमारा उद्देश्य एक ऐसा शिक्षा तंत्र तैयार करना है जो विद्यार्थियों को शैक्षणिक, सामाजिक और व्यक्तिगत रूप से रूपांतरित करे। यहाँ के विद्यार्थी "एनर्जी वॉरियर्स" कहलाते हैं, जो भविष्य में ऊर्जा और प्रौद्योगिकी के क्षेत्र में नेतृत्व करेंगे।

संस्थान विद्यार्थियों को सुरक्षित और प्रेरणादायी वातावरण प्रदान करता है, जहाँ वे वैश्विक ऊर्जा समुदाय के जिम्मेदार सदस्य बनने के लिए आवश्यक कौशल और ज्ञान अर्जित करते हैं। हमारे शैक्षणिक कार्यक्रम नवाचार, नेतृत्व, टीमवर्क और वैश्विक दृष्टिकोण को प्रोत्साहित करते हैं।

RGIPT में विद्यार्थियों को कक्षा के बाहर भी खेल, क्लबों और सामुदायिक सेवा (ज्ञान अर्पण) जैसी गतिविधियों में भाग लेने के अवसर मिलते हैं। हाल ही में Astronomy Club, Kode Club और Product Design Club की स्थापना की गई है ताकि विद्यार्थी उद्यमिता और नेतृत्व में आगे बढ़ सकें। साथ ही, Community Internship Program के माध्यम से अमेठी क्षेत्र के गाँवों में सामाजिक जिम्मेदारी निभाई जा रही है।

महिलाओं को समान अवसर दिए बिना कोई भी देश प्रगति नहीं कर सकता। इसी सोच के साथ RGIPT ने "ऊर्जा शक्ति" कार्यक्रम शुरू किया है, जो ऊर्जा क्षेत्र में महिला उपस्थिति को बढ़ावा देता है। यह राष्ट्रीय स्तर की प्रतियोगिता है जिसमें महिला स्नातक इंजीनियरिंग छात्राएँ अपने नवीन विचार प्रस्तुत करती हैं और विजेताओं को पुरस्कृत किया जाता है।

संस्थान लगातार अपने परिसर का विस्तार कर रहा है — नए कक्षाओं, प्रयोगशालाओं, फैकल्टी कैबिन और छात्रावासों का निर्माण किया जा रहा है। हमारे पास AI एवं ML केंद्र, Center for Innovation and Incubation और लगभग 17,000 पुस्तकों वाली केंद्रीय पुस्तकालय जैसी अत्याधुनिक सुविधाएँ हैं।

RGIPT में 11 विभागों में फैले 100 से अधिक प्रतिभाशाली संकाय सदस्य हैं, जो विद्यार्थियों को उत्कृष्ट शिक्षा प्रदान कर रहे हैं। हाल ही में संस्थान ने कई नए संकाय सदस्यों की नियुक्ति भी की है।

इंजीनियरिंग संस्थानों की श्रेणी में प्राप्त 78वाँ स्थान हमारे लिए गर्व की बात है, विशेषकर तब जब हम अपेक्षाकृत नए और विशिष्ट क्षेत्रीय कार्यक्रम प्रदान करने वाले संस्थान हैं। आने वाले वर्षों में हमारा लक्ष्य NIRF रैंकिंग में शीर्ष 50 में स्थान प्राप्त करना है।

हमें विश्वास है कि RGIPT निरंतर नवाचार, उच्चस्तरीय शोध प्रकाशन और तकनीकी विकास के माध्यम से देश और समाज की ऊर्जा आवश्यकताओं में महत्वपूर्ण योगदान देता रहेगा।

आप सभी को सुखद, स्वस्थ और सफल वर्ष की शुभकामनाएँ।

जय हिंद!

आचार्य आलोक कुमार सिंह
निदेशक (कार्यवाहक), आरजीआईपीटी

अध्याय 1
निदेशक की रिपोर्ट

मुझे अत्यंत गर्व और प्रसन्नता है कि राजीव गांधी पेट्रोलियम प्रौद्योगिकी संस्थान (आरजीआईपीटी) का वार्षिक प्रतिवेदन शैक्षणिक वर्ष 2024–25 के लिए प्रस्तुत कर रहा हूँ। यह वर्ष अकादमिक, अनुसंधान और जनसंपर्क गतिविधियों के सभी आयामों में उल्लेखनीय प्रगति और उपलब्धियों से परिपूर्ण रहा है।

संस्थागत परिचय

जायस स्थित आरजीआईपीटी भारत सरकार द्वारा स्थापित एक स्वायत्त संस्थान है, जिसे *राजीव गांधी पेट्रोलियम प्रौद्योगिकी संस्थान अधिनियम, 2007* के अंतर्गत "राष्ट्रीय महत्व का संस्थान" का दर्जा प्राप्त है। यह संस्थान छह प्रमुख तेल सार्वजनिक उपक्रमों—ओएनजीसी, आईओसीएल, ऑयल इंडिया, गेल, बीपीसीएल और एचपीसीएल—तथा ऑयल इंडस्ट्री डेवलपमेंट बोर्ड (OIDB) द्वारा सह-प्रायोजित है। आरजीआईपीटी ने पेट्रोलियम एवं ऊर्जा प्रौद्योगिकी के क्षेत्र में विशेषज्ञता रखने वाले अंतरराष्ट्रीय विश्वविद्यालयों और संस्थानों के साथ सहयोग स्थापित किया है। संस्थान का प्रमुख उद्देश्य विश्वस्तरीय शिक्षा, प्रशिक्षण और अनुसंधान प्रदान करना है ताकि ऊर्जा क्षेत्र की बढ़ती आवश्यकताओं को पूरा करने हेतु सक्षम मानव संसाधन तैयार किए जा सकें।

शैक्षणिक कार्यक्रम

राष्ट्रीय शिक्षा नीति के अनुरूप आरजीआईपीटी ने अपने पाठ्यक्रम में सुधार किए हैं। वर्तमान में संस्थान प्रदान कर रहा है:

- **12 स्नातक कार्यक्रम** (7 विभिन्न धाराओं में)
- **3 स्नातकोत्तर कार्यक्रम** (एम.टेक. पेट्रोलियम एवं केमिकल इंजीनियरिंग, एम.बी.ए.)
- **पीएच.डी. कार्यक्रम** (इंजीनियरिंग, विज्ञान, मानविकी और प्रबंधन में)

नए कार्यक्रमों में बी.टेक. (केमिकल इंजीनियरिंग – पेट्रोकेमिकल्स एवं पॉलिमर इंजीनियरिंग), बी.टेक. (कंप्यूटर साइंस एवं डिज़ाइन इंजीनियरिंग), तथा आई.डी.डी. (कंप्यूटर साइंस एवं आर्टिफिशियल इंटेलिजेंस) शामिल हैं, जिन्होंने हमारे शैक्षणिक पोर्टफोलियो को और सशक्त बनाया है।

8वाँ दीक्षांत समारोह

संस्थान ने सफलतापूर्वक अपना **8वाँ दीक्षांत समारोह** आयोजित किया, जिसमें स्नातक विद्यार्थियों की उपलब्धियों का उत्सव मनाया गया। इस अवसर पर विभिन्न कार्यक्रमों के अंतर्गत निम्नलिखित उपाधियाँ प्रदान की गईं:

बी.टेक- 157 स्नातक

एम.टेक- 13 स्नातक

एम.बी.ए.- 37 स्नातक

पीएच.डी.- 19 स्नातक

डिप्लोमा- 172 (असम एनर्जी इंस्टीट्यूट, शिवसागर)

संकाय मामले

किसी भी शैक्षणिक संस्थान की प्रगति उसके संकाय सदस्यों के शोध और शिक्षण दक्षता पर निर्भर करती है। आरजीआईपीटी (RGIPT) को अपने तीन परिसरों में प्रतिभाशाली संकाय सदस्यों का समूह प्राप्त है, जो संस्थान की शैक्षणिक उत्कृष्टता को आगे बढ़ा रहे हैं।

वर्तमान संकाय शक्ति:

- **आरजीआईपीटी जायस परिसर** – 70 संकाय सदस्य
- **आरजीआईपीटी ऊर्जा संस्थान, बेंगलुरु** – 8 संकाय सदस्य
- **आरजीआईपीटी असम ऊर्जा संस्थान, शिवसागर** – 22 संकाय सदस्य

शैक्षणिक वर्ष 2024-25 में संकाय भर्ती

- शैक्षणिक वर्ष 2024-25 के दौरान संस्थान ने 12 नए संकाय सदस्यों की नियुक्ति की, जिनमें 2 सह आचार्य, 9 सहायक आचार्य और 1 आगंतुक संकाय सदस्य शामिल हैं। सभी संकाय सदस्य प्रतिष्ठित संस्थानों जैसे आईआईटी, केंद्रीय विश्वविद्यालयों और प्रसिद्ध अंतरराष्ट्रीय विश्वविद्यालयों से पीएचडी धारक हैं, जिनमें से कई के पास पोस्ट-डॉक्टोरल अनुभव भी है। संस्थान संकाय सदस्यों के व्यावसायिक विकास और अंतरराष्ट्रीय सहयोग को बढ़ावा देने हेतु प्रतिष्ठित संस्थानों में विनिमय यात्राओं को प्रोत्साहित करता रहता है।
- संकाय सदस्य अत्याधुनिक शोध कार्यों में सक्रिय रूप से संलग्न हैं। उन्होंने समीक्षित अंतरराष्ट्रीय पत्रिकाओं में अनेक शोध-पत्र प्रकाशित किए हैं, पेटेंट दाखिल किए हैं और राष्ट्रीय एवं अंतरराष्ट्रीय सम्मेलनों में भाग लिया है। कई संकाय सदस्यों को उनके शोध और शिक्षण उत्कृष्टता में योगदान के लिए प्रतिष्ठित पुरस्कार और सम्मान प्राप्त हुए हैं।

शोध गतिविधियाँ

आरजीआईपीटी में शोध कार्य इसकी स्थापना से ही एक मुख्य स्तंभ रहा है, जिसने नवाचार और शैक्षणिक उत्कृष्टता को बढ़ावा दिया है। संस्थान सक्रिय रूप से बी.टेक, एम.टेक और पीएच.डी. छात्रों को चल रहे शोध कार्यों में सम्मिलित करता है, जिससे हर स्तर पर एक गतिशील और सहयोगी शोध वातावरण निर्मित होता है।

प्रमुख शोध क्षेत्र आरजीआईपीटी का शोध कई अत्याधुनिक क्षेत्रों में फैला हुआ है: पेट्रोलियम रिफाइनिंग और उत्प्रेरण (Catalysis), कार्बन डाइऑक्साइड (CO_2) कैप्चर और उपयोग, हाइड्रोजन उत्पादन और भंडारण, उन्नत तेल पुनर्प्राप्ति तकनीकें ड्रिलिंग फ्लुइड्स और वेलबोर सीमेंटिंग, नैनोमैटेरियल्स और उन्नत सामग्री विज्ञान, नवीकरणीय ऊर्जा और जैव ईंधन, ईंधन कोशिकाएँ और सतत ऊर्जा प्रणालियाँ, **तेल क्षेत्र की प्रमुख कंपनियों और पीएसयू (PSU)** के साथ मजबूत साझेदारी, **डीएसटी (DST)** और **सीएसआईआर (CSIR)** जैसी शीर्ष संस्थाओं से बाहरी वित्तपोषित परियोजनाएँ, ऐसे संयुक्त उपक्रम जो शैक्षणिक शोध को औद्योगिक अनुप्रयोगों से जोड़ते हैं

संकाय सदस्यों द्वारा कई **पेटेंट दाखिल**, जो संस्थान की अनुप्रयोग-उन्मुख शोध संस्कृति को दर्शाते हैं संकाय द्वारा **अंतरराष्ट्रीय स्तर पर प्रतिष्ठित जर्नल्स और कॉन्फ्रेंस** में प्रकाशन राष्ट्रीय और अंतरराष्ट्रीय मंचों पर **व्याख्यान देने के लिए आमंत्रण**, जिससे आरजीआईपीटी की वैश्विक पहचान और प्रतिष्ठा बढ़ी है

प्रशिक्षण एवं प्लेसमेंट

सत्र 2024–25 के दौरान स्नातक एवं स्नातकोत्तर छात्रों की प्लेसमेंट गतिविधियाँ तीनों परिसरों में उल्लेखनीय सफलता के साथ सम्पन्न हुईं। प्रशिक्षण एवं प्लेसमेंट कार्यालय ने इस प्रक्रिया को सुगम बनाने में महत्वपूर्ण भूमिका निभाई, विभिन्न

कंपनियों और कॉर्पोरेट हाउस से संपर्क स्थापित कर कैंपस इंटरव्यू आयोजित किए तथा अनेक विषयों के स्नातक और स्नातकोत्तर छात्रों के चयन को सुनिश्चित किया।

प्लेसमेंट सारांश

आरजीआईपीटी जायस परिसर

- प्रारंभ तिथि: जनवरी 2024
- कुल कंपनियाँ: 22
- कुल नौकरी के प्रस्ताव: 71

आरजीआईपीटी- असम एनर्जी इंस्टीट्यूट, शिवसागर

- प्रारंभ तिथि: फ़रवरी 2025
- कुल कंपनियाँ: 3
- कुल नौकरी के प्रस्ताव: 12

आरजीआईपीटी- एनर्जी इंस्टीट्यूट, बेंगलुरु

- प्रारंभ तिथि: सितम्बर 2025
- कुल कंपनियाँ: 39
- कुल नौकरी के प्रस्ताव: 56

भर्ती क्षेत्र: ऊर्जा, सेवाएँ, परामर्श और विनिर्माण क्षेत्रों की कंपनियों ने प्लेसमेंट ड्राइव में सक्रिय रूप से भाग लिया। **प्रमुख भर्ती करने वाले:** राष्ट्रीय तेल सार्वजनिक उपक्रम (PSUs) और कई प्रमुख अंतरराष्ट्रीय कंपनियों ने विविध भूमिकाओं में अवसर प्रदान किए। **प्लेसमेंट समयरेखा:** प्लेसमेंट सत्र पूरे शैक्षणिक वर्ष तक चला, जो **सितंबर** से शुरू होकर **जून** तक जारी रहा। **उच्च शिक्षा:** प्लेसमेंट के साथ-साथ कई स्नातक छात्रों ने प्रतिष्ठित राष्ट्रीय और अंतरराष्ट्रीय संस्थानों में उच्च शिक्षा जारी रखने का विकल्प चुना।

अधोसंरचना एवं सुविधाएँ

संस्थान ने विश्वस्तरीय शिक्षण वातावरण प्रदान करने के लिए अपने बुनियादी ढाँचे और सुविधाओं को निरंतर उन्नत किया है। 47 एकड़ भूमि पर निर्मित, जायस स्थित अत्याधुनिक परिसर में 1100 छात्रों के लिए आवास की सुविधा है, जिसमें व्याख्यान कक्षों सहित कई शैक्षणिक भवन, शिक्षण और अनुसंधान प्रयोगशालाएँ, परिसर में आवासीय परिसर, स्वास्थ्य केंद्र, अतिथि गृह, खेल सुविधाएँ और छात्रावास शामिल हैं।

स्थायित्व के प्रति हमारी प्रतिबद्धता के अनुरूप, एमएनआरई के दिशानिर्देशों के अनुसार शैक्षणिक भवनों की छतों पर सौर पैनल लगाए जा रहे हैं। कई निर्माण परियोजनाएँ चल रही हैं, जिनमें एक G+1 मंजिला इमारत भी शामिल है, जिसका उद्देश्य छात्रों को सभी प्रकार की मशीनों के लिए बुनियादी कौशल प्रशिक्षण प्रदान करना, नवीन विचारों वाले उद्यमियों को विकसित करना और प्रौद्योगिकी-आधारित क्षेत्रों में उद्यमशीलता गतिविधियों को बढ़ावा देना है।

संस्थान की सीसीआईएस इकाई पूरे परिसर में निर्बाध गीगाबिट नेटवर्क कनेक्टिविटी प्रदान करती है। राष्ट्रीय ज्ञान नेटवर्क (एनकेएन) से 1 जीबीपीएस लैन और वाई-फाई की एक समर्पित लीज़ लाइन द्वारा इंटरनेट एक्सेस प्रदान किया जाता है। परिसर नवीनतम सिस्को इनडोर और आउटडोर एक्सेस पॉइंट्स से सुसज्जित है। संस्थान में कई स्नातक/स्नातकोत्तर शिक्षण

और अनुसंधान उद्देश्यों के लिए लाइसेंस प्राप्त सॉफ़्टवेयर उपलब्ध हैं, जिनमें मैटलैब, ऑटोकैड, आईबीएम एसपीएसएस और एएमओएस, ओरिजिन, एस्पेन प्लस, कप्पा, गॉसियन और गॉस व्यू, आरईडीएएएस, सीएमजी, कॉमसोल, एंसिस, किंगडम, ओपनटेक, आदि शामिल हैं।

संस्थान ने अपनी कंप्यूटर लैब में विंडोज और लिनक्स ऑपरेटिंग सिस्टम से लैस उच्च-स्तरीय डेस्कटॉप मशीनें और सभी आवश्यक शिक्षण लैब सॉफ्टवेयर उपलब्ध कराए हैं। सभी शैक्षणिक कक्षाएँ मल्टीमीडिया प्रोजेक्टर सिस्टम से सुसज्जित हैं, और कई बड़ी कक्षाओं में मल्टीमीडिया इंटरैक्टिव डिजिटल पोडियम सिस्टम भी लगे हैं।

पुस्तकालय

आरजीआईपीटी केंद्रीय पुस्तकालय पूर्णतः कम्प्यूटरीकृत है और इसमें पुस्तकों का विशाल और निरंतर बढ़ता संग्रह है। इसे विज्ञान एवं प्रौद्योगिकी के क्षेत्र में एक विश्वस्तरीय शैक्षणिक पुस्तकालय एवं सूचना केंद्र के रूप में विकसित किया जा रहा है। केंद्रीय पुस्तकालय, इनफ्लिबनेट (यूजीसी) द्वारा विकसित SOUL 3.0 पुस्तकालय प्रबंधन सॉफ्टवेयर का उपयोग करता है और आरजीआईपीटी की आधिकारिक वेबसाइट के माध्यम से सुलभ है।

इस पुस्तकालय में 16,000 से अधिक पुस्तकों, पत्रिकाओं, मानकों, तकनीकी रिपोर्टों और ऑनलाइन संसाधनों का एक व्यापक संग्रह है, जो इंजीनियरिंग, विज्ञान, मानविकी, इलेक्ट्रॉनिक्स, कंप्यूटर विज्ञान, सामाजिक विज्ञान और प्रबंधन सहित विविध क्षेत्रों को कवर करता है। पुस्तकालय कई मुद्रित और ऑनलाइन पत्रिकाओं के साथ-साथ 150,000 से अधिक पूर्ण-पाठ ऑनलाइन पत्रिकाओं तक पहुँच प्रदान करने वाले डेटाबेस तक पहुँच प्रदान करता है।

यह पुस्तकालय सुबह 9:00 बजे से रात 11:00 बजे तक खुला रहता है, और छात्रों की अध्ययन और शोध आवश्यकताओं को पूरा करने के लिए परीक्षाओं से पहले के पाँच दिनों के दौरान इसके खुलने का समय बढ़ाकर सुबह 2:00 बजे कर दिया जाता है। पुस्तकालय साहित्यिक चोरी की जाँच के लिए iThenticate (टर्निटिन) तक पहुँच प्रदान करता है और परिसर-व्यापी इंटरनेट कनेक्टिविटी सुनिश्चित करता है, जिससे एमराल्ड मैनेजमेंट, अमेरिकन केमिकल सोसाइटी (ACS), वनपेट्रो, IEEE, मैथसाइनेट, साइफाइंडर आदि जैसे ऑनलाइन संसाधनों तक पहुँच मिलती है। सुरक्षा सुनिश्चित करने के लिए RFID और CCTV सहित उन्नत सुरक्षा उपाय लागू हैं।

छात्र गतिविधियाँ और सामाजिक पहल

आरजीआईपीटी के छात्र न केवल शिक्षा पर ध्यान केंद्रित करते हैं, बल्कि विभिन्न सामाजिक पहलों, सांस्कृतिक गतिविधियों और खेलों में भी सक्रिय रूप से शामिल होते हैं। छात्रों द्वारा संचालित सामाजिक पहल क्लब, अर्पण (ज्ञान अर्पण), संस्थान के आस-पास के क्षेत्रों में स्कूली बच्चों को शिक्षित करने के लिए विभिन्न कार्यक्रमों का आयोजन करता रहता है, जिससे जिले के लोगों के लिए गरीबी उन्मूलन और स्थायी आजीविका में योगदान मिलता है।

डीन-छात्र मामलों के कार्यालय द्वारा आयोजित प्रमुख सांस्कृतिक और खेल आयोजनों में शामिल हैं:

• **एनर्जिया 2025** - आरजीआईपीटी का प्रमुख वार्षिक खेल महोत्सव, जो 22-23 फरवरी 2025 को आयोजित किया गया, जिसमें 10 से अधिक कॉलेजों के 350 से अधिक बाहरी प्रतिभागियों और 800 से अधिक कुल प्रतिभागियों ने भाग लिया। इस महोत्सव में बास्केटबॉल, वॉलीबॉल, बैडमिंटन, शतरंज, कैरम, पावरलिफ्टिंग, शॉटपुट, लंबी कूद, एथलेटिक्स, लॉन टेनिस और टेबल टेनिस सहित कई खेल आयोजन शामिल थे। यह युवाओं, फिटनेस और एकता का उत्सव था।

• **सांस्कृतिक उत्सव** - छात्रों के बीच कलात्मक अभिव्यक्ति और सांस्कृतिक विविधता को बढ़ावा देने के लिए पूरे वर्ष विभिन्न सांस्कृतिक कार्यक्रम और उत्सव आयोजित किए गए।

छात्रों को उत्तर प्रदेश छात्रवृत्ति, ईआईएल छात्रवृत्ति और मुख्यमंत्री मेधावी विद्यार्थी छात्रवृत्ति सहित कई प्रतिष्ठित छात्रवृत्तियाँ मिली हैं। कई छात्रों ने राष्ट्रीय और अंतर्राष्ट्रीय सम्मेलनों में अपने शोध कार्य प्रस्तुत किए हैं और अपने योगदान के लिए पुरस्कार और मान्यता प्राप्त की है। छात्र टीमों ने वाणिज्य और उद्योग मंत्रालय द्वारा आयोजित स्मार्ट इंडिया हैकाथॉन 2023 भी जीता है।

संस्थान ने विज्ञान ज्योति कार्यक्रम के तहत 8 अक्टूबर 2024 को विश्व हाइड्रोजन दिवस मनाया, जिससे नवोदय विद्यालय समिति और स्थानीय स्कूलों के छात्रों को उन्नत अनुसंधान सुविधाओं से परिचित होने का बहुमूल्य अवसर मिला। कार्यक्रम में केमिकल इंजीनियरिंग, पेट्रोलियम इंजीनियरिंग, इलेक्ट्रॉनिक्स इंजीनियरिंग और बायोएनर्जी इंजीनियरिंग प्रयोगशालाओं का दौरा, हाइड्रोजन ऊर्जा अनुप्रयोगों पर तकनीकी वार्ता और विज्ञान, ऊर्जा और प्रौद्योगिकी में करियर के लिए छात्रों को प्रेरित करना शामिल था।

उद्योग सहयोग और समझौता ज्ञापन

आरजीआईपीटी ने हाइड्रोकार्बन उद्योगों के साथ सहयोग बढ़ाने और समकक्ष विशिष्ट संस्थानों के साथ संबंधों को मज़बूत करने के लिए व्यापक प्रयास शुरू किए हैं। संस्थान ने आवासीय प्रशिक्षण, संयुक्त सहयोगात्मक अनुसंधान और ज्ञान के आदान-प्रदान हेतु हिंदुस्तान एयरोनॉटिक्स लिमिटेड, ऑयल इंडिया लिमिटेड, चेन्नई पेट्रोलियम कॉर्पोरेशन लिमिटेड, नैसकॉम फाउंडेशन, योकोगावा टेक्नोलॉजी सॉल्यूशंस आदि सहित कई प्रतिष्ठित संगठनों के साथ समझौता ज्ञापनों पर हस्ताक्षर किए हैं।

आरजीआईपीटी सार्वजनिक क्षेत्र के उपक्रमों की तेल रिफाइनरियों और विभिन्न अनुसंधान एवं विकास सुविधाओं के औद्योगिक दौरों के माध्यम से छात्रों के लिए नियमित संपर्क सुनिश्चित करता है। संस्थान छात्रों के लिए समय-समय पर क्षेत्रीय भ्रमणों का भी आयोजन करता है ताकि वे वास्तविक समय में सीख सकें। इन सहयोगों के परिणामस्वरूप कई प्रायोजित अनुसंधान परियोजनाएँ और परामर्श के अवसर प्राप्त हुए हैं, जिससे संस्थान का उद्योग जगत के साथ संबंध और मज़बूत हुआ है।

सम्मेलन और प्रशिक्षण कार्यक्रम

संस्थान ने वर्ष के दौरान कई प्रमुख सम्मेलनों और कार्यक्रमों का सफलतापूर्वक आयोजन किया, जिससे ज्ञान प्रसार और शैक्षणिक उत्कृष्टता के प्रति उसकी प्रतिबद्धता प्रदर्शित हुई:

- **अपस्ट्रीम में परिवर्तन पर अंतर्राष्ट्रीय सम्मेलन:** ब्रेकथ्रू तकनीकें और स्थिरता (ICTU 24) - पेट्रोलियम इंजीनियरिंग और जियोइंजीनियरिंग विभाग द्वारा 30 सितंबर - 1 अक्टूबर 2024 को आयोजित किया गया। इस सम्मेलन में अग्रणी विशेषज्ञ अपस्ट्रीम तेल और गैस क्षेत्र में अग्रणी तकनीकों और टिकाऊ प्रथाओं पर चर्चा करने के लिए एक साथ आए।
- **SCHEMCON 2024** - छात्र रासायनिक इंजीनियरिंग सम्मेलन 20-21 सितंबर 2024 को आयोजित किया गया, जिसने छात्र शोधकर्ताओं को अपना काम प्रस्तुत करने और विचारों का आदान-प्रदान करने के लिए एक मंच प्रदान किया। इस कार्यक्रम में रोबोटिक्स और स्वचालन में नवाचार को प्रदर्शित करने वाली एक बॉट्स प्रदर्शनी भी शामिल थी।
- **URJOTSAV 2024** - 9-10 नवंबर 2024 को आयोजित, RGIPT का प्रमुख राष्ट्रीय स्तर का तकनीकी और उद्यमिता उत्सव, जिसका आयोजन विज्ञान और तकनीकी परिषद द्वारा किया जाता है। यह प्रतिष्ठित कार्यक्रम एक गहन अनुभव प्रदान करता है जहाँ छात्रों ने व्यावहारिक गतिविधियों, रणनीतिक योजना और वास्तविक दुनिया की

समस्याओं के समाधान में भाग लिया, जिससे नवोदित इंजीनियरों, उद्यमियों और नवप्रवर्तकों को अपने विचारों को प्रदर्शित करने और विभिन्न विषयों में सहयोग करने के लिए एक मंच मिला।

- **ऊर्जा क्षेत्र में कम्प्यूटेशनल द्रव गतिकी का उपयोग (H_CFD2025)** - 23-25 जनवरी 2025 तक आयोजित, ऊर्जा क्षेत्र में CFD की तकनीकों और अनुप्रयोगों पर केंद्रित।

संकाय सदस्यों और छात्रों ने 11-14 फ़रवरी 2025 तक नई दिल्ली में आयोजित भारत ऊर्जा सप्ताह (IEW) 2025, ऊर्जावार्ता 2024 और IChE-CHEMCON 2024 (27-30 दिसंबर 2024) सहित प्रतिष्ठित बाह्य सम्मेलनों में सक्रिय रूप से भाग लिया। आईओसीएल और सीपीसीएल सहित प्रमुख रिफाइनरियों के अधिकारियों के लिए पेट्रोलियम रिफाइनिंग तकनीक पर प्रशिक्षण कार्यक्रम भी आयोजित किए गए। प्रबंधन अध्ययन विभाग ने नेट ज़ीरो ऊर्जा संक्रमण और सतत विकास पर सम्मेलन आयोजित किए, जबकि विभिन्न विभागों ने उभरती प्रौद्योगिकियों और अनुसंधान क्षेत्रों पर कार्यशालाएँ और सेमिनार आयोजित किए। इन आयोजनों ने ज्ञान के आदान-प्रदान, सहयोग और क्षेत्र में नवीनतम विकास से परिचित होने के लिए अमूल्य मंच प्रदान किए।

आगे की राह –

आरजीआईपीटी पेट्रोलियम और ऊर्जा शिक्षा एवं अनुसंधान में एक अग्रणी संस्थान बनने के अपने दृष्टिकोण के प्रति प्रतिबद्ध है। संस्थान उद्योग की ज़रूरतों के अनुरूप पाठ्यक्रम नवाचार, बेहतर शोध परिणाम, मज़बूत उद्योग-अकादमिक साझेदारी और समग्र छात्र विकास पर ध्यान केंद्रित करना जारी रखेगा। हमारे मूल मंत्रालयों, तेल सार्वजनिक उपक्रमों, समर्पित संकाय, कर्मचारियों और उत्साही छात्रों के सहयोग से, आरजीआईपीटी भारत की ऊर्जा सुरक्षा और तकनीकी प्रगति में महत्वपूर्ण योगदान देने के लिए पूरी तरह तैयार है।

आप सभी का बहुत-बहुत धन्यवाद। जय हिंद!

आचार्य आलोक कुमार सिंह,
निदेशक (कार्यवाहक), आर.जी.आई.पी.टी.

अध्याय-2
संगठनात्मक स्वरूप

महापरिषद्

अध्यक्ष

सचिव- पेट्रोलियम एवं प्राकृतिक गैस मंत्रालय, भारत सरकार

- अध्यक्ष, इण्डियन ऑयल कॉर्पोरेशन लिमिटेड
- अध्यक्ष एवं प्रबन्ध निदेशक, बीपीसीएल
- अध्यक्ष एवं प्रबन्ध निदेशक, एचपीसीएल
- अध्यक्ष एवं प्रबन्ध निदेशक, ओएनजीसी
- अध्यक्ष एवं प्रबन्ध निदेशक, गेल
- अध्यक्ष एवं प्रबन्ध निदेशक, ओआईएल
- मुख्य अधिशासी अधिकारी, आरआईएल
- मुख्य अधिशासी अधिकारी, कैर्न एनर्जी
- मुख्य अधिशासी अधिकारी, शेल इण्डिया
- मुख्य अधिशासी अधिकारी, एस्सार ग्रुप
- महानिदेशक- डीजीएच
- प्रधान सलाहकार (ऊर्जा), नीति आयोग
- प्रबंध निदेशक, ओआईएसडी
- निदेशक, भारतीय प्रौद्योगिकी संस्थान कानपुर
- कुलपति, आईसीटी मुंबई
- सचिव, ऑयल इंडस्ट्री डेवलपमेन्ट बोर्ड
- अध्यक्ष- आरजीआईपीटी संचालक मंडल
- निदेशक- आरजीआईपीटी

संचालक मण्डल

- आचार्य अनिरुद्ध बी. पंडित,
  अध्यक्ष-आरजीआईपीटी संचालक मंडल
- आचार्य आलोक कुमार सिंह,
  निदेशक (कार्यवाहक), आर.जी.आई.पी.टी.
- आचार्य योगेश एम. जोशी
  आचार्य, आआईटी कानपुर
- श्री रंजन मोहापात्रा
  पूर्व निदेशक- मानव संसाधन,
  आई.ओ.सी.एल.
- श्री मनीष पाटिल
  निदेशक-मानव संसाधन, ओएनजीसी
- डॉ. अल्का मित्तल,
  पूर्व निदेशक- मानव संसाधन, ओ.एन.जी.सी.
- डॉ. प्रदीप श्रीवास्तव,
  कार्यपालक निदेशक, टीआईएफएसी
- डॉ. वी. के. सारस्वत,
  सदस्य, नीति आयोग
- श्री प्रसाद पानिकर,
  निदेशक एवं प्रमुख, न्यारा एनर्जी लिमिटेड
- श्री आयुष गुप्ता
  निदेशक-मानव संसाधन, गेल
- प्रो. संजय कुमार कर,
  आचार्य- आर.जी.आई.पी.टी.
- प्रो. चंचल कुण्डू,
  आचार्य-आर.जी.आई.पी.टी.

वित्त समिति

- आचार्य अनिरुद्ध बी. पंडित,
  अध्यक्ष-आरजीआईपीटी संचालक मंडल
- आचार्य आलोक कुमार सिंह,
  निदेशक (कार्यवाहक), आर.जी.आई.पी.टी.
- श्री आयुष गुप्ता
  निदेशक-मानव संसाधन, गेल
- श्री इंद्र जीत सिंह
  उप सचिव- वित्त, पेट्रोलियम और प्राकृतिक गैस मंत्रालय
- आचार्य योगेश एम. जोशी, आचार्य, आआईटी कानपुर
  प्रो. एस.एस. यादव, प्रोफेसर, आईआईटी दिल्ली

विद्या परिषद्

- आचार्य आलोक कुमार सिंह,
  निदेशक (कार्यवाहक), आर.जी.आई.पी.टी., अध्यक्ष
- श्री चंद्रशेखर एन.
  प्रमुख- अनुसंधान एवं विकास, बीपीसीएल
- प्रो. एम.एस. बालाथानिगईमनी, अधिष्ठाता-अनुसंधान एवं विकास
- प्रो. आलोक कुमार सिंह, अधिष्ठाता-गैर-शैक्षणिक कार्मिक मामले
- डॉ. कविता श्रीवास्तव, अधिष्ठाता, नियोजन, संसाधन एवं पूर्व छात्र
- प्रो. चंचल कुंडू, अधिष्ठाता - शैक्षणिक मामले
- डॉ. मिलन कुमार, विभागाध्यक्ष- रासायनिक इंजीनियरिंग और बायोकेमिकल इंजीनियरिंग
- डॉ. सुषम विश्वास, विभागाध्यक्ष- कंप्यूटर विज्ञान एवं इंजीनियरिंग
- प्रोफेसर अमित रंजन, प्रोफेसर- रासायनिक इंजीनियरिंग और बायोकेमिकल इंजीनियरिंग
- डॉ. अर्जुन देव, प्रभारी, ऊर्जा संस्थान बेंगलुरु
- डॉ. अतुल शर्मा, अध्यक्ष-सीनेट पुस्तकालय समिति
- डॉ. तुषार शर्मा, एसोसिएट प्रोफेसर- पेट्रोलियम इंजीनियरिंग और जियोइंजीनियरिंग
- डॉ. देबाशीष जेना, सहायक प्रोफेसर-प्रबंधन अध्ययन
- डॉ. भास्कर ज्योति मेधी, सहायक प्राध्यापक-ऊर्जा संस्थान बेंगलुरु
- श्रीमती सपना श्रीकांत,
- सीजीएम- क्षमता निर्माण, एचपीसीएल
- प्रो. आर.एस. सिंह, बीआईएस चेयर प्रोफेसर और प्रोफेसर (एचएजी), आईआईटी (बीएचयू)
- प्रो. संजय कुमार कर, अधिष्ठाता-फैकल्टी अफेयर्स
- प्रो. सतीश कुमार सिन्हा, विभागाध्यक्ष-पेट्रोलियम इंजीनियरिंग और जियोइंजीनियरिंग
- डॉ. जया श्रीवास्तव, विभागाध्यक्ष-प्रबंधन अध्ययन
- डॉ. यू.डी. द्विवेदी, विभागाध्यक्ष- इलेक्ट्रिकल एवं इलेक्ट्रॉनिक्स इंजीनियरिंग
- प्रोफेसर अतुल शर्मा, प्रोफेसर-विज्ञान और मानविकी
- श्री चिन्मय जीत सरमा, प्रभारी, असम ऊर्जा संस्थान
- डॉ. देबाशीष पांडा, अधिष्ठाता -छात्र मामले, आरजीआईपीटी
- डॉ. मनोज राजपूत, विभागाध्यक्ष, गणितीय विज्ञान
- डॉ. शिवांशु श्रीवास्तव, सहायक प्रोफेसर-इलेक्ट्रॉनिक्स इंजीनियरिंग
- डॉ. रूपा मंजूनाथ, सहायक प्रोफेसर-ऊर्जा संस्थान बेंगलुरु

सचिव

- श्री जितेन्द्र प्रसाद,
  कुलसचिव, आरजीआईपीटी

अध्याय-3
संकाय मामले

संक्षिप्त परिचय

संकाय सदस्यों और अन्य शैक्षणिक कर्मचारियों की भर्ती और स्थापना से संबंधित सभी मामले संकाय मामलों के कार्यालय के दायरे में आते हैं। छुट्टी की मंजूरी, विदेश यात्रा, संचयी व्यावसायिक विकास भत्ता (सीपीडीए) और एलटीसी, सेवा प्रमाणपत्र जारी करना, विभिन्न उद्देश्यों के लिए 'अनापत्ति प्रमाणपत्र' (एनओसी) आदि संकाय मामलों के कार्यालय द्वारा जारी किया जाता है।

संकाय पद

संकाय सदस्य की स्थिति

	आरजीआईपीटी जायस परिसर	आरजीआईपीटी बंगलुरु परिसर	आरजीआईपीटी शिवसागर परिसर
संकाय सदस्य	70	8	22
अतिथि संकाय	1	0	0
वैज्ञानिक अधिकारी	0	0	0
डी एस टी प्रेरित संकाय	0	0	0

वर्ष 2024-25 में नियुक्त संकाय एवं गैर-शैक्षणिक कार्मिक

सह आचार्य	02
सहायक आचार्य	09
अतिथि संकाय	01

01 अप्रैल 2024 से 31 मार्च 2025 के मध्य नियुक्त संकाय सदस्यों की सूची

अ) आरजीआईपीटी जायस परिसर

क्रम संख्या	आईडी संख्या	संकाय/कर्मचारी का नाम	पदनाम	विभाग/अनुभाग	नियुक्ति तिथि
1	0237	डॉ. दीपक द्विवेदी	सहायक आचार्य (ग्रेड- I)	केमिकल एवं बायोकेमिक अभियांत्रिकी विभाग	01.04.2024
2	0311	डॉ. ओमवीर सिंह	सहायक आचार्य (ग्रेड- I)	ऊर्जा एवं मानव विज्ञान	01.09.2024
3.	0318	डॉ. अभय पंत	सहायक आचार्य (ग्रेड- I)	प्रबंधन अध्ययन	03.12.2024
4.	0245	डॉ. गार्गी श्रीवास्तव	सहायक आचार्य (ग्रेड- I)	कम्प्यूटर साइंस एवं अभियांत्रिकी विभाग	17.06.2024

5.	0303	डॉ. निर्भय कुमार टैगोर	सहायक आचार्य (ग्रेड- I)	कम्प्यूटर साइंस एवं अभियांत्रिकी विभाग	24.05.2024
6.	0309	डॉ. संतोष कुमार मिश्र	सहायक आचार्य (ग्रेड- I)	कम्प्यूटर साइंस एवं अभियांत्रिकी विभाग	14.08.2024
7.	0316	डॉ. सुमित मिश्रा	सहायक आचार्य (ग्रेड- I)	कम्प्यूटर साइंस एवं अभियांत्रिकी विभाग	26.06.2024
8.	0244	डॉ. सजल अग्रवाल	सहायक आचार्य (ग्रेड- I)	इलेक्ट्रिकल और इलेक्ट्रॉनिक्स अभियांत्रिकी	17.06.2024
9.	0248	डॉ अभिषेक कुमार सिंह	सहायक आचार्य (ग्रेड- I)	इलेक्ट्रिकल और इलेक्ट्रॉनिक्स अभियांत्रिकी	24.06.2024
10.	0211	प्रोफेसर अखौरी सुधीर कुमार सिन्हा	अतिथि संकाय	केमिकल एवं बायोकेमिक अभियांत्रिकी विभाग	22.07.2024

01 अप्रैल 2024 से 31 मार्च 2025 के मध्य नियुक्त आंतरिक संकाय सदस्यों की सूची

क्रम संख्या	आईडी संख्या	संकाय/कर्मचारी का नाम	पदनाम	विभाग/अनुभाग	नियुक्ति तिथि
1	0098	डॉ. वी.एस. सिस्टला	सह आचार्य	केमिकल एवं बायोकेमिक अभियांत्रिकी विभाग	24.08.2024
2	152	डॉ. सरोज कुमार मिश्रा	सह आचार्य	प्रबंधन अध्ययन	07.06.2024

1 अप्रैल 2024 से 31 मार्च 2025 के दौरान इस्तीफा देने वाले/कार्यमुक्त किए गए संकाय सदस्य

क्रम संख्या	आईडी संख्या	संकाय/कर्मचारी का नाम	पदनाम	विभाग/अनुभाग	कार्यमुक्ति तिथि
1	293	डॉ. मोहम्मद इरफ़ान	सह आचार्य	प्रबंध अध्ययन	21.01.2024

अप्रैल 2024 से 31 मार्च 2025 के बीच सेवानिवृत्त होने वाले संकाय सदस्य -

क्रम संख्या	आईडी संख्या	संकाय/कर्मचारी का नाम	पदनाम	विभाग/अनुभाग	जन्म तिथि	सेवानिवृत्ति की तिथि (FN/AN के साथ)
1.	0211	प्रोफेसर अखौरी सुधीर कुमार सिन्हा	अतिथि संकाय	केमिकल एवं बायोकेमिक अभियांत्रिकी विभाग	06.06.1956	09.07.2024

अप्रैल 2024 से 31 मार्च 2025 के दौरान संकाय सदस्य लंबी छुट्टी पर-

क्रम संख्या	संकाय/कर्मचारी का नाम	पदनाम	विभाग	से	तक	विवरण
1	डॉ. शिवांजलि शर्मा	सह आचार्य	केमिकल एवं बायोकेमिकल अभियांत्रिकी विभाग	03.03.2025	29.08.2025	प्रसूति अवकाश

सम्मेलन

क्रम संख्या	उपस्थित व्यक्ति	केंद्र	पाठ्यक्रम का शीर्षक	अवधि	विभाग	उपस्थित हुए सम्मेलन
1	प्रो.सतीश कुमार सिन्हा	आरजीआईपीटी जायस परिसर	India Energy Week Conference	06-02-2024 to 09-02-2024	पेट्रोलियम इंजीनियरिंग और भू-इंजीनियरिंग	Goa
2	डॉ. प्रवीण कुमार श्रीवास्तव	आरजीआईपीटी जायस परिसर	International Conference	07-02-2024 to 09-02-2024	ऊर्जा और मानव विज्ञान	Sodha Energy Research Park - Ballia
3	प्रो.सतीश कुमार सिन्हा	आरजीआईपीटी जायस परिसर	Workshop organised by DGH	27-02-2024 to 28-02-2024	पेट्रोलियम इंजीनियरिंग और भू-इंजीनियरिंग	OIDB, Noida
4	प्रो आलोक कुमार सिंह	आरजीआईपीटी जायस परिसर	Workshop organised by DGH	27-02-2024 to 28-02-2024	पेट्रोलियम इंजीनियरिंग और भू-इंजीनियरिंग	OIDB, Noida
5	डॉ. हेमन्त कुमार सिंह	आरजीआईपीटी जायस परिसर	Workshop organised by DGH	27-02-2024 to 28-02-2024	पेट्रोलियम इंजीनियरिंग और भू-इंजीनियरिंग	OIDB, Noida
6	डॉ. पीयूष सरकार	आरजीआईपीटी जायस परिसर	Workshop organised by DGH	27-02-2024 to 28-02-2024	पेट्रोलियम इंजीनियरिंग और भू-इंजीनियरिंग	OIDB, Noida
7	डॉ. अमित कुमार	आरजीआईपीटी जायस परिसर	Workshop organised by DGH	27-02-2024 to 28-02-2024	पेट्रोलियम इंजीनियरिंग और भू-इंजीनियरिंग	OIDB, Noida
8	डॉ. रोहित बंसल	आरजीआईपीटी जायस परिसर	MDP for Business Intelligence Analytics Power BI	01-03-2024 to 03-03-2024	प्रबंधन अध्ययन	Sahnti Business School, Ahmedabad - Virtual Mode
9	डॉ.विपिन अमोली	आरजीआईपीटी जायस परिसर	Academic Visit	01-03-2024 to 03-03-2024	ऊर्जा और मानव विज्ञान	NITK, Surathkal
10	डॉ. तथामय बसु	आरजीआईपीटी जायस परिसर	Academic Visit	01-03-2024 to 05-03-2024	ऊर्जा और मानव विज्ञान	NIT, Surathkal
11	डॉ. पीयूष सरकार	आरजीआईपीटी जायस परिसर	National Seminar - Geosciences for Sustainable World - 2024	06-03-2024 to 07-03-2024	पेट्रोलियम इंजीनियरिंग और भू-इंजीनियरिंग	Banaras Hindu University
12	डॉ. हेमन्त कुमार सिंह	आरजीआईपीटी जायस परिसर	National Conference	06-03-2024 to 07-03-2024	पेट्रोलियम इंजीनियरिंग और भू-इंजीनियरिंग	Banaras Hindu University

13	डॉ.सौरभ पांडे	आरजीआईपीटी जायस परिसर	IFAC International Conferrence	12-03-2024 to 15-03-2024	इलेक्ट्रॉनिक्स इंजीनियरिंग	Shiv Nadar Institution of Eminence - Delhi
14	डॉ. अरविन्द सिंह	आरजीआईपीटी जायस परिसर	Industrial Visit	22-03-2024 to 22-03-2024	रासायनिक इंजीनियरिंग और जैव-रासायनिक इंजीनियरिंग	M/s Think Gas at Bhopal
15	प्रो आलोक कुमार सिंह	आरजीआईपीटी जायस परिसर	14th World Petro Coal Congress 2024	25-04-2024 to 26-04-2024	पेट्रोलियम इंजीनियरिंग और भू-इंजीनियरिंग	NDMC - Convention Centre, Parliament Street, New Delhi
16	डॉ.विपिन अमोली	आरजीआईपीटी जायस परिसर	National Centre for Flexible at IIT, Kanpur	07-05-2024 to 09-05-2024	ऊर्जा और मानव विज्ञान	IIT, Kanpur
17	डॉ अभिषेक कुमार सिंह	आरजीआईपीटी जायस परिसर	National Centre for Flexible at IIT, Kanpur	07-05-2024 to 09-05-2024	इलेक्ट्रॉनिक्स इंजीनियरिंग	IIT, Kanpur
18	डॉ. शिवांशु श्रीवास्तव	आरजीआईपीटी जायस परिसर	International Conference	10-05-2024 to 12-05-2024	इलेक्ट्रॉनिक्स इंजीनियरिंग	IEEE International Conference, China
19	डॉ. अमित कुमार	आरजीआईपीटी जायस परिसर	Industrial Visit	19-05-2024 to 29-05-2024	पेट्रोलियम इंजीनियरिंग और भू-इंजीनियरिंग	ONGC, Panvel , Navi Mumbai
20	डॉ सिद्धार्थ गौतम	आरजीआईपीटी जायस परिसर	Industrial Visit	19-05-2024 to 29-05-2024	पेट्रोलियम इंजीनियरिंग और भू-इंजीनियरिंग	IRS Ahmedabad & IPEOT, Mumbai
21	डॉ शैलेश कुमार	आरजीआईपीटी जायस परिसर	Industrial Visit	19-05-2024 to 29-05-2024	पेट्रोलियम इंजीनियरिंग और भू-इंजीनियरिंग	IRS Ahmedabad & IPEOT, Mumbai
22	डॉ. गुंजन कुमार अग्रहरि	आरजीआईपीटी जायस परिसर	Industrial Visit	22-05-2024 to 30-05-2024	रासायनिक इंजीनियरिंग और जैव-रासायनिक इंजीनियरिंग	HPCL Refinery, Mumbai

23	डॉ. कौशिक गुहा विश्वास	आरजीआईपीटी जायस परिसर	Industrial Visit	22-05-2024 to 30-05-2024	रासायनिक इंजीनियरिंग और जैव-रासायनिक इंजीनियरिंग	HPCL Refinery, Mumbai
24	डॉ. सजल अग्रवाल	आरजीआईपीटी जायस परिसर	Industrial Visit	23-05-2024 to 29-05-2024	इलेक्ट्रॉनिक्स इंजीनियरिंग	HPCL Refinery, Mumbai
25	डॉ तुषार शर्मा	आरजीआईपीटी जायस परिसर	Research Visit	03-06-2024 to 25-07-2024	पेट्रोलियम इंजीनियरिंग और भू-इंजीनियरिंग	Edith Cowan University (ECU) Australia - Research Visit
26	डॉ. रोहित बंसल	आरजीआईपीटी जायस परिसर	India Net Zero Forum 2024	14-06-2024 to 14-06-2024	प्रबंधन अध्ययन	New Delhi, India Organised by Economic Times
27	डॉ. आकाश यादव	आरजीआईपीटी जायस परिसर	International Conference	24-06-2024 to 28-06-2024	कंप्यूटर विज्ञान और इंजीनियरिंग	International Conference - IIT Mandi
28	डॉ. यू.डी. द्विवेदी	आरजीआईपीटी जायस परिसर	IEEE International Communications Energy Conference	04-08-2024 to 07-08-2024	इलेक्ट्रॉनिक्स इंजीनियरिंग	Bengaluru
29	डॉ. तथामय बसु	आरजीआईपीटी जायस परिसर	Industrial Visit	31-08-2024 to 07-09-2024	ऊर्जा और मानव विज्ञान	RRCAT, Indore
30	डॉ. पीयूष सरकार	आरजीआईपीटी जायस परिसर	National Conference	27-09-2024 to 29-09-2024	पेट्रोलियम इंजीनियरिंग और भू-इंजीनियरिंग	National Conference - ETES -2024 - IIT (ISM) Dhanbad
31	डॉ. अमित सक्सैना	आरजीआईपीटी जायस परिसर	Research Visit	12-10-2024 to 15-10-2024	पेट्रोलियम इंजीनियरिंग और भू-इंजीनियरिंग	OIL - Jodhpur
32	डॉ. शिवांजलि शर्मा	आरजीआईपीटी जायस परिसर	Research Visit	12-10-2024 to 15-10-2024	पेट्रोलियम इंजीनियरिंग और भू-इंजीनियरिंग	OIL - Jodhpur
33	डॉ. संतोष कुमार मिश्र	आरजीआईपीटी जायस परिसर	International Conference	02-12-2024 to 06-12-2024	कंप्यूटर विज्ञान और इंजीनियरिंग	International Conference - Auckland, New Zealand

34	डॉ. शिवांशु श्रीवास्तव	आरजीआईपीटी जायस परिसर	International Symposium	16-12-2024 to 18-12-2024	इलेक्ट्रॉनिक्स इंजीनियरिंग	IEEE-iSES, New Delhi
35	प्रो.सतीश कुमार सिन्हा	आरजीआईपीटी जायस परिसर	Annual Convention of IGU on Advances in Earth System Sciences with special reference to weather and climate	03.12.2024 to 05.12.2024	पेट्रोलियम इंजीनियरिंग और भू-इंजीनियरिंग	Annual Conference - (BHU), Varanasi
36	डॉ. श्वेता	आरजीआईपीटी जायस परिसर	The Society of Rheology 95th Annual Meeting	13.10.2024 to 17.10.2024	रासायनिक इंजीनियरिंग और जैव-रासायनिक इंजीनियरिंग	Austin, Texas, USA
37	डॉ. भीमैया चिकोंद्रा	आरजीआईपीटी जायस परिसर	19th EAI International Conference	15.12.2024 to 16.12.2024	इलेक्ट्रॉनिक्स इंजीनियरिंग	IIT BHU Varanasi
38	डॉ. हेमन्त कुमार सिंह	आरजीआईपीटी जायस परिसर	International Conference on Earth: Archean to Proterozoic	19.12.2024 to 23.12.2024	पेट्रोलियम इंजीनियरिंग और भू-इंजीनियरिंग	Sukhadia University
39	डॉ. कौशिक गुहा विश्वास	आरजीआईपीटी जायस परिसर	CHEMCON	28.12.2024 to 30.12.2024	रासायनिक इंजीनियरिंग और जैव-रासायनिक इंजीनियरिंग	NIT Jalandhar
40	डॉ.गार्गी श्रीवास्तव	आरजीआईपीटी जायस परिसर	27th International Conference on Pattern Recognition (ICPR-2024)	01.12.2024 to 05.12.2024	कंप्यूटर विज्ञान और इंजीनियरिंग	Kolkata
41	डॉ. निर्भय कुमार टैगोर	आरजीआईपीटी जायस परिसर	21st International Conference on Distributed Computing and Intelligent Technologies-2025	08.01.2025 to 11.01.2025	कंप्यूटर विज्ञान और इंजीनियरिंग	KIIT, Bhubaneshwar

अध्याय- 4
प्रशासनिक

राजीव गांधी पेट्रोलियम प्रौद्योगिकी संस्थान (आरजीआईपीटी) का प्रशासनिक विभाग दैनिक प्रशासनिक और वित्तीय मामलों में निदेशक की सहायता करने और विभिन्न वैधानिक दायित्वों का अनुपालन सुनिश्चित करने के उद्देश्य से स्थापित किया गया है। यह अनुभाग स्थापना, सामान्य प्रशासन, लेखा और लेखापरीक्षा अनुभागों में विभाजित है, जिसमें 10 अधिकारी और कर्मचारी सदस्य शामिल हैं, जो समान संख्या में आउटसोर्स कर्मचारियों द्वारा समर्थित हैं। आरजीआईपीटी प्रथम नियम, 2009 की धारा-15(5) में कुलसचिव के निम्न कर्तव्य निर्धारित किये गये हैं-

i. संस्थान के अभिलेखों, संस्थान की मुहर और ऐसी अन्य संपत्तियों का संरक्षण, जिसे संचालक मण्डल ने सौंपा है;
ii. संस्थान के विभिन्न प्राधिकारियों, जिनमें वह पदेन सचिव है, की बैठकें बुलाने के साथ-साथ इन प्राधिकारियों द्वारा नियुक्त किसी समिति की बैठकें बुलाने के लिए नोटिस जारी करना
iii. निदेशक के अनुमोदनोरान्त कार्यसूची को जारी करना, कार्यवृत्त तैयार करना।
iv. संस्थान के विभिन्न प्राधिकारियों, जिनका वह पदेन सचिव है, की सभी बैठकों के साथ-साथ इन प्राधिकारियों द्वारा नियुक्त किसी समिति की सभी बैठकों का विवरण रखना
v. संस्थान के प्राधिकारियों की ओर से आधिकारिक पत्राचार करना
vi. केंद्र सरकार को संस्थान के प्राधिकारियों की बैठकों की कार्यसूची तथा कार्यवृत्त जारी होते ही उपलब्ध कराना
vii. संस्थान द्वारा या उसके विरुद्ध मुकदमों या कानूनी कार्यवाही में संस्थान का प्रतिनिधित्व करना, वकालतनामा पर हस्ताक्षर करना और स्वयं दलीलों को सत्यापित करना या इस उद्देश्य के लिए संस्थान प्रतिनिधि को नियुक्त करना, इत्यादि

प्रशासनिक प्रभागों के विभिन्न अनुभागों के प्रमुख कार्य इस प्रकार हैं:-

1. **स्थापना:** स्थापना अनुभाग मुख्य रूप से आरजीआईपीटी और उसके केंद्रों के लिए गैर-शिक्षण कर्मचारियों की भर्ती, उनके वार्षिक प्रदर्शन मूल्यांकन, नियमितीकरण और पदोन्नति के कार्यों को संपादित करता है। यह प्रत्येक गैर-शैक्षणिक कार्मिकों की सेवा पुस्तिकाएं और उनके वार्षिक अद्यतनीकरण, व्यैक्तिक फाइलों, अवकाश रिकॉर्ड, अवकाश यात्रा रियायत की मंजूरी और अन्य सेवा मामलों का भी रखरखाव करता है। इसके अलावा यह अनुभाग आरक्षण रोस्टर रजिस्टर, संस्थान और केंद्रों के सभी कर्मचारियों के एनपीएस खाते खोलना, प्रमाण पत्र जारी करना, वेतन निर्धारण, आवधिक वेतन वृद्धि जारी करना, प्रतिनियुक्ति, इस्तीफा और प्रतिधारण / ग्रहणाधिकार की समाप्ति, कर्मचारियों आदि के लिए प्रशिक्षण कार्यक्रम का संचालन करता है।
2. **सामान्य प्रशासन:** संस्थान का सामान्य प्रशासन संस्थान के स्वतंत्रता दिवस, गणतंत्र दिवस, दीक्षांत समारोह आदि जैसे समारोहों के आयोजन के लिए जिम्मेदार है। यह अनुभाग सामान्य परिषद, संचालक मण्डल, वित्त समिति और विद्या परिषद् की बैठकों की व्यवस्था करने के लिए भी जिम्मेदार हैं। बैठक की कार्यसूची और कार्यवृत्त, प्रशासनिक मंत्रालय के साथ संपर्क करना और आवश्यकता पड़ने पर उन्हें वांछित जानकारी और रिपोर्ट प्रदान करना। इसके अलावा यह अनुभाग आरटीआई अधिनियम, 2005 के तहत प्राप्त और निपटाए गए आवेदनों पर त्रैमासिक और वार्षिक रिटर्न

दाखिल करने, सार्वजनिक शिकायत, आधिकारिक कार्यों में हिंदी के उपयोग, उम्मीदवारों के कल्याण के लिए किए गए उपायों पर रिपोर्ट के लिए नोडल कार्यालय है। एससी, एसटी, ओबीसी, ईडब्ल्यूएस, दिव्यांग, पूर्व सैनिक आदि । यह अनुभाग संस्थान के सभी कानूनी मामलों, प्रेस और मीडिया संबंधों, केंद्रों के साथ समन्वय, खरीद, जनशक्ति की आउटसोर्सिंग, अनुबंध प्रबंधन, अचल संपत्ति के भौतिक सत्यापन, अचल संपत्ति और उपभोज्य रजिस्टरों के रखरखाव, आवासीय एवं अन्य परिसर के आवंटन के लिए भी जिम्मेदार है।

3. **वित्त और लेखा:** वित्त अनुभाग विशेष रूप से वार्षिक खातों और बैलेंस शीट की तैयारी, संबंधित अधिकारियों के साथ एनपीएस, जीएसटी, टीडीएस, व्यावसायिक कर आदि जैसे वैधानिक बकाया के भुगतान और मासिक, त्रैमासिक और वार्षिक रिटर्न दाखिल करने में शामिल है। वे संस्थान और उसके केंद्रों के सभी कर्मचारियों के मासिक वेतन के वितरण, उनकी वेतन पर्ची और फॉर्म -16 जारी करने, कर्मचारियों के व्यक्तिगत दावों की प्रतिपूर्ति और आंतरिक लेखा परीक्षा की सिफारिश पर विक्रेताओं और अन्य सेवा प्रदाताओं को बिल भुगतान के लिए भी जिम्मेदार हैं। इसके अलावा वित्त और खाता अनुभाग उपकरण के आयात, बजट, पीएफएमएस संचालन, शुल्क रसीदों के सृजन, अग्रदाय के रखरखाव, धन के निवेश, वार्षिक लेखा लेखा परीक्षा के दौरान सी एंड एजी टीम के साथ समन्वय आदि के लिए ऋण पत्र स्थापित करने के लिए भी जिम्मेदार है।
4. **आंतरिक लेखापरीक्षा:** आंतरिक लेखापरीक्षा संस्थान का एक बहुत ही महत्वपूर्ण अनुभाग है जो संपूर्ण वित्तीय लेनदेन की जांच अवशेष राशि निर्धारित, समस्त लेनदेन की मंजूरी, वित्त के उपयुक्त संचालन और आंतरिक लेखा की समीक्षा के बाद सक्षम प्राधिकारी को सुधारात्मक उपाय करना प्रतिवेदन प्रस्तुत करता है। आंतरिक लेखा परीक्षा के कार्य के दायरे में आरजीआईपीटी जायस और इसके असम ऊर्जा संस्थान शिवसागर और ऊर्जा संस्थान, बंगलुरु स्थित केंद्रों के अनुबंध प्रबंधन, ट्रेजरी और नकदी प्रबंधन, भण्डारण, सम्पत्ति प्रबंधन इत्यादि शामिल हैं। यह अनुभाग भुगतान से पहले कर्मचारियों के सभी व्यक्तिगत दावों और विक्रेताओं और सेवा प्रदाताओं के बिलों के प्रमाणीकरण, संस्थान और उसके केंद्रों के सभी खरीद प्रस्तावों की ऑडिटिंग के लिए जिम्मेदार है। यह अर्ध-वार्षिक आंतरिक ऑडिट भी करता है और निदेशक को प्रतिवेदन प्रस्तुत करता है और C&AG द्वारा लेखा परीक्षा के लिए नोडल एजेंसी है।

गैर-शिक्षण कर्मचारियों की संख्या

वर्तमान में आरजीआईपीटी के जायस, शिवसागर और बेंगलुरु परिसरों में कुल मिलाकर 48 गैर-शिक्षण कर्मचारी कार्यरत हैं। इन कर्मचारियों का विवरण इस प्रकार है:

क्र.सं.	कर्मचारियों की श्रेणी	कुल संख्या	सामान्य	एससी	एसटी	ओबीसी	दिव्यांग
आरजीआईपीटी, जायस, अमेठी							
1	समूह क	8	5	0	0	3	
2	समूह ख	14	10	0	0	4	
3	समूह ग	18	11	2	0	5	2 (UR)
4	कुल	40	26	2	0	12	
असम ऊर्जा संस्थान (एईआई), शिवसागर							
1	समूह क	0	0	0	0	0	
2	समूह ख	3	3	0	0	0	
3	समूह ग	5	2	0	0	3	
4	कुल	08	5	0	0	3	

गैर-शैक्षणिक कार्मिकों के नाम निम्नवत हैं:

आरजीआईपीटी, जायस, अमेठी		
क्र.सं.	**स्टाफ सदस्यों का नाम**	**पदनाम**
1	जितेन्द्र प्रसाद	संयुक्त कुलसचिव
2	समीर रंजन सिंह	उप कुलसचिव
3	हरीश कुमार यादव	अधिशाषी अभियंता (सिविल)
4	सुधीर अरोरा	सहायक कुलसचिव
5	अनिल कुमार वर्मा	सहायक प्रणाली अधिकारी
6	अरुण कुमार सिंह	सहायक कुलसचिव (सीनियर स्केल)
7	राकेश सिंह	सहायक कुलसचिव (सीनियर स्केल)
8	कृष्ण कांत	सहायक कुलसचिव
9	श्वेता नेगी (प्रतिनियुक्ति पर)	अधीक्षक (ग्रेड- II)
10	धर्मेन्द्र प्रताप सिंह	शारीरिक प्रशिक्षण प्रशिक्षक
11	मधुप्रिया	अधीक्षक (ग्रेड- II)
12	उमेश कुमार शर्मा	अधीक्षक (ग्रेड- II)
13	तेज प्रकाश जोशी	अधीक्षक (ग्रेड- II)
14	अंकित मोहन	अधीक्षक (ग्रेड- I)
15	लोकेश भटनागर	प्रणाली अधीक्षक (ग्रेड- II)
16	मोहम्मद इल्ताफ जफर	तकनीकी अधीक्षक (ग्रेड-III)
17	अरुण कुमार सिंह	तकनीकी अधीक्षक (ग्रेड- II)
18	बृजेश प्रताप सिंह	सहायक अभियंता (सिविल)
19	उत्कर्ष	सहायक अभियंता (विद्युत)
20	राजेश कुमार विश्वकर्मा	सहायक सुरक्षा अधिकारी (ग्रेड- III)
21	अरविन्द कुमार यादव	अधीक्षक (ग्रेड- I)
22	अंकित पचौरी	प्रणाली अधीक्षक (ग्रेड- I)
23	अश्विनी कुमार चौधरी	सहायक प्रणाली (ग्रेड-III)
24	विवेक सिंह	सहायक (ग्रेड-III)
25	योगेश शर्मा	सहायक (ग्रेड-III)
26	अमित कुमार बाजपेयी	सहायक (ग्रेड-III)
27	प्रीति सिंह	सहायक (ग्रेड-III)
28	उमेश कुमार शर्मा	सहायक (ग्रेड-III)
29	गोविंद कुमार तिवारी	पुस्तकालय एवं सूचना सहायक (ग्रेड-III)
30	कृष्ण कुमार सोनकर	पुस्तकालय एवं सूचना सहायक (ग्रेड-III)
31	प्रदीप कुमार वर्मा	पुस्तकालय एवं सूचना सहायक (ग्रेड-III)
32	रवि द्विवेदी	सहायक (ग्रेड- III)

33	अमित कुमार श्रीवास्तव	सहायक (ग्रेड- III)
34	शशि मिश्रा	सहायक (ग्रेड- I)
35	गौरव सिंह गहरवार	तकनीशियन (ग्रेड- I)
36	एकता चौधरी	सहायक (ग्रेड- I)
37	राहुल सिंह	सहायक (ग्रेड- I)
38	नेहा पांडे	सहायक (ग्रेड- I)
39	त्रिविक्रम	तकनीशियन (ग्रेड- I)
40	बृजेश कुमार वर्मा	तकनीशियन (ग्रेड- I)
आरजीआईपीटी, शिवसागर संस्थान		
1	सुरामोनी बोरठाकुर	तकनीकी अधीक्षक (ग्रेड- I)
2	सौरव ज्योति भराली	तकनीकी अधीक्षक (ग्रेड- I)
3	अघना तियास मंडल	अधीक्षक (ग्रेड- I)
4	परिश्मिता शर्मा बरुआ	सहायक (ग्रेड- I)
5	पुलकेश कुमार	सहायक (ग्रेड- I)
6	कौशिक दास	सहायक (ग्रेड- I)
7	तपन ज्योति गोगोई	तकनीशियन (ग्रेड- I)
8	सुमीर कुमार सैकिया	तकनीशियन (ग्रेड- I)

शीर्ष समितियों की बैठक

वित्तीय वर्ष 2024-25 के दौरान सामान्य परिषद, संचालक मण्डल, वित्त समिति और विद्या परिषद् जैसी शीर्ष समितियों की बैठक संस्थान संस्थान के प्रथम नियमों क़ानून में उल्लिखित प्रावधानों के अनुसार आयोजित की गई। संपन्न बैठक का विवरण इस प्रकार है: क़ानून में उल्लिखित प्रावधानों के अनुसार आयोजित की गई। संपन्न बैठक का विवरण इस प्रकार है:

शीर्ष समिति	आयोजित बैठकों की संख्या	बैठक की तारीखें
सामान्य परिषद	01	a. 27 नवंबर, 2024
संचालक मण्डल	03	a. अप्रैल 29, 2024 b. अगस्त 6, 2024 c. नवम्बर 22, 2024
वित्त समिति	03	1. अप्रैल 29, 2024 2. अगस्त 6, 2024 3. नवम्बर 22, 2024
विद्या परिषद्	01	1. दिसंबर 22, 2024

अध्याय- 5

रासायनिक अभियांत्रिकी एवं जैवरासायनिक अभियांत्रिकी विभाग

स्थापना वर्ष: 2009

विभागाध्यक्ष: डॉ. मिलन कुमार, एसोसिएट प्रोफेसर

विभाग का संक्षिप्त परिचय:

परंपरागत रूप से, रासायनिक अभियांत्रिकी वह शाखा है जो कच्चे माल को उपयोगी उत्पादों में परिवर्तित करने की रासायनिक प्रक्रिया को आर्थिक और आत्मनिर्भर तरीके से अभियांत्रित करने का कार्य करती है। इसी उद्देश्य और दृष्टिकोण के अनुरूप, जिसके तहत RGIPT की स्थापना की गई है, रासायनिक अभियांत्रिकी और जैव रासायनिक अभियांत्रिकी विभाग (CEBE) का लक्ष्य ऐसे विशेषज्ञों को प्रशिक्षित करना और तैयार करना है जिनकी तकनीकी पृष्ठभूमि मजबूत हो और जो सामाजिक प्रतिबद्धता से युक्त हों, ताकि वे आने वाले समय में देश की ऊर्जा आवश्यकताओं को पूरा करने में सहायता कर सकें। CEBE विभाग, देश के अनोखे विभागों में से एक है, जो तेल और गैस क्षेत्र विशेष रूप से तथा ऊर्जा क्षेत्र सामान्य रूप से संबंधित रासायनिक अभियांत्रिकी क्षेत्रों से जुड़ी गतिविधियों, सुविधाओं और पाठ्यक्रमों का संचालन करता है। यह विभाग इन क्षेत्रों की उद्योगों के साथ प्रत्यक्ष और समन्वित संपर्क का आनंद लेता है।

CEBE विभाग निम्नलिखित प्रमुख बी.टेक कार्यक्रम प्रदान करता है, जिनका उद्देश्य तेल, गैस और ऊर्जा क्षेत्र में पेशेवरों को प्रशिक्षित करना और तैयार करना है:

1. केमिकल इंजीनियरिंग में बी.टेक
2. केमिकल इंजीनियरिंग में बी.टेक, अक्षय ऊर्जा इंजीनियरिंग में प्रमुख (2022 से शुरू)
3. केमिकल इंजीनियरिंग में बी.टेक, पेट्रोकेमिकल्स और पॉलिमर इंजीनियरिंग में प्रमुख (2023 से शुरू)

इन कार्यक्रमों के अतिरिक्त, विभाग विभिन्न एमटेक और पीएचडी कार्यक्रम भी संचालित करता है।

हमारी कक्षा शिक्षण प्रणाली रचनात्मकता और नवाचार को बढ़ावा देने पर केंद्रित है। चूंकि यह संस्थान तेल, गैस और ऊर्जा के क्षेत्र में कार्यरत है, इसलिए हमारे पाठ्यक्रम विशेष रूप से इन क्षेत्रों पर केंद्रित रूप से तैयार किए गए हैं।

विभाग अपने संकाय सदस्यों और छात्रों को उद्योग के साथ संपर्क स्थापित करने के लिए प्रोत्साहित करता है और विभिन्न गतिविधियों में औद्योगिक भागीदारी और साझेदारी चाहता है।

विभाग समय-समय पर विभिन्न छात्र कार्यक्रम, प्रशिक्षण कार्यक्रम और व्याख्यान श्रृंखला का आयोजन करता है, जैसे कि रिफाइनरी अधिकारियों के लिए 'पेट्रोलियम रिफाइनिंग टेक्नोलॉजी' पर प्रशिक्षण कार्यक्रम, विभागीय व्याख्यान श्रृंखला और CheMinar श्रृंखला। इसके अतिरिक्त, अमेरिकन इंस्टीट्यूट ऑफ केमिकल इंजीनियर्स (AIChE) और इंडियन इंस्टीट्यूट ऑफ केमिकल इंजीनियर्स (IIChE) के छात्र अध्यायों द्वारा व्याख्यान श्रृंखला का आयोजन भी समय-समय पर किया जाता है।

प्रमुख अनुसंधान क्षेत्र

विभाग में अनुसंधान निम्नलिखित क्षेत्रों पर केंद्रित है:-पेट्रोलियम रिफाइनिंग, उत्प्रेरण (Catalysis), CO_2 अवशोषण (कैप्चर), हाइड्रोजन उत्पादन और भंडारण, वैनाडियम रेडॉक्स फ्लो बैटरी, संक्षारण (Corrosion), ईंधन कोशिकाएँ (Fuel Cells), माइक्रोफ्लूइडिक्स, जैव ईंधन (Biofuel), अवशोषण (Adsorption), मेम्ब्रेन विज्ञान, नैनोमटेरियल्स, जैव उपचार (Bioremediation), पदार्थ विज्ञान (Materials Science),

आधारभूत संरचना

क्रम संख्या	विवरण	संख्या
1	कक्षाओं की संख्या	08
2	व्याख्यान कक्षों की संख्या	
3	प्रयोगशालाओं की संख्या	15
4	विभाग/केंद्र में छात्रों के लिए उपलब्ध कंप्यूटरों की संख्या	45

विभाग/केंद्र की विशिष्ट उपलब्धि/पूर्वस्थापना

प्रस्तावित शैक्षणिक कार्यक्रम

निम्नलिखित पर मॉड्यूलर पाठ्यक्रम:

कंप्यूटर विज्ञान एवं इंजीनियरिंग, सूचना प्रौद्योगिकी, इलेक्ट्रॉनिक्स इंजीनियरिंग, और गणित एवं कंप्यूटिंग जैसे अन्य विषयों के स्नातक छात्रों के लिए केमिकल इंजीनियरिंग में बी.टेक लघु कार्यक्रम।

केमिकल इंजीनियरिंग में बी.टेक/नवीकरणीय ऊर्जा इंजीनियरिंग में प्रमुख विषय के साथ केमिकल इंजीनियरिंग में बी.टेक/पेट्रोकेमिकल्स एवं पॉलिमर इंजीनियरिंग में प्रमुख विषय के साथ केमिकल इंजीनियरिंग में बी.टेक

रासायनिक इंजीनियरिंग में बी.टेक, पेट्रोकेमिकल्स और पॉलिमर इंजीनियरिंग में प्रमुख विषय के साथ

विषय इस प्रकार हैं:-

क्रम संख्या	पाठ्यक्रम कोड	पाठ्यक्रम का नाम	कोर्स क्रेडिट
B-Tech 1st Year ChE			
1 (Odd)			
1	CH161	Engineering Thermodynamics	11
2	HU101	Universal Human Values	5

क्रम संख्या	पाठ्यक्रम कोड	पाठ्यक्रम का नाम	कोर्स क्रेडिट
B-Tech 1st Year ChE			
2 (Even)			
1	CH121	Fluid Mechanics	11
2	CH111	Chemical Engineering Practices	5
3	HU102	Community Internship	5
क्रम संख्या	पाठ्यक्रम कोड	पाठ्यक्रम का नाम	कोर्स क्रेडिट
B-Tech 1st Year PPE			
1 (Odd)			
1	CH161	Engineering Thermodynamics	11
2	HU101	Universal Human Values	5
क्रम संख्या	पाठ्यक्रम कोड	पाठ्यक्रम का नाम	कोर्स क्रेडिट
B-Tech 1st Year PPE			
2 (Even)			
1	CH121	Fluid Mechanics	11
2	CH113	Petrochemicals & Polymer Engineering Practices	5
3	HU102	Community Internship	5
क्रम संख्या	पाठ्यक्रम कोड	पाठ्यक्रम का नाम	कोर्स क्रेडिट
B-Tech 1st Year REE			
1 (Odd)			
1	CH161	Engineering Thermodynamics	11
2	HU101	Universal Human Values	5
क्रम संख्या	पाठ्यक्रम कोड	पाठ्यक्रम का नाम	कोर्स क्रेडिट
B-Tech 1st Year REE			
2 (Even)			
1	CH121	Fluid Mechanics	11
2	CH112	Renewable Energy Engineering Practices	5
3	HU102	Community Internship	5
क्रम संख्या	पाठ्यक्रम कोड	पाठ्यक्रम का नाम	कोर्स क्रेडिट
B-Tech 2nd Year ChE			
3 (Odd)			
1	CH262	Chemical Engineering Thermodynamics	11
2	CH171	Mass & Energy Balances	8
3	CH224	Fluid Flow and Mechanical Operations	11

4	CH223L	Fluid Flow and Mechanical Operations Lab	2
क्रम संख्या	**पाठ्यक्रम कोड**	**पाठ्यक्रम का नाम**	**कोर्स क्रेडिट**
B-Tech 2nd Year ChE			
4 (Even)			
1	CH212	Materials Science and Strength of Materials	9
2	CH274	Mass Transfer Operations-1	11
3	CH281	Petroleum Refining Engineering	9
4	CH231	Heat Transfer Operations	11
5	CH251	Chemical Reaction Engineering-1	8
6	CH251L	Chemical Reaction Engineering Lab	2
7	CH231L	Heat Transfer Operation Lab	2
Summer			
1	CH415	Summer Internship (4 Weeks)	3
क्रम संख्या	**पाठ्यक्रम कोड**	**पाठ्यक्रम का नाम**	**कोर्स क्रेडिट**
B-Tech 2nd Year PPE			
3 (Odd)			
1	CH262	Chemical Engineering Thermodynamics	11
2	CH171	Mass & Energy Balances	8
3	CH224	Fluid Flow and Mechanical Operations	11
4	CH224L	Fluid Flow and Mechanical Operations Lab	2
क्रम संख्या	**पाठ्यक्रम कोड**	**पाठ्यक्रम का नाम**	**कोर्स क्रेडिट**
B-Tech 2nd Year PPE			
4 (Even)			
1	CH212	Materials Science and Strength of Materials	9
2	CH274	Mass Transfer Operations-1	11
3	CH281	Petroleum Refining Engineering	9
4	CH191	Fundamentals of Polymer & Petrochemicals	6
5	CH231	Heat Transfer Operations	11
6	CH251	Chemical Reaction Engineering-1	8
7	CH251L	Chemical Reaction Engineering Lab	2
8	CH231L	Heat Transfer Operation Lab	2
Summer			
1	CH415	Summer Internship (4 Weeks)	3
क्रम संख्या	**पाठ्यक्रम कोड**	**पाठ्यक्रम का नाम**	**कोर्स क्रेडिट**
B-Tech 2nd Year RRE			
3 (Odd)			
1	CH262	Chemical Engineering Thermodynamics	11
2	CH171	Mass & Energy Balances	8

3	CH224	Fluid Flow and Mechanical Operations	11
4	CH224L	Fluid Flow and Mechanical Operations Lab	2
क्रम संख्या	**पाठ्यक्रम कोड**	**पाठ्यक्रम का नाम**	**कोर्स क्रेडिट**
B-Tech 2nd Year RRE			
4 (Even)			
1	CH212	Materials Science and Strength of Materials	9
2	CH274	Mass Transfer Operations-1	11
3	CH281	Petroleum Refining Engineering	9
4	CH231	Heat Transfer Operations	11
5	CH251	Chemical Reaction Engineering-1	8
6	CH251L	Chemical Reaction Engineering Lab	2
7	CH231	Heat Transfer Operation Lab	2
Summer			
1	CH415	Summer Internship (4 Weeks)	3
क्रम संख्या	**पाठ्यक्रम कोड**	**पाठ्यक्रम का नाम**	**कोर्स क्रेडिट**
B-Tech 3rd Year ChE			
5 (Odd)			
1	CH375	Mass Transfer Operations-2	9
2	CH352	Chemical Reaction Engineering-2	8
3	CH392	Chemical Process Technology	9
4	CH414	Process Equipment Design	6
5	CH382	Refinery Process Design	9
6	CH341	Process Dynamics and Control	11
7	CH274L	Mass Transfer Operation Lab	2
8	CH341L	Process Dynamics and Control Lab	2
9	CH414P	Process Equipment Design Project	2
क्रम संख्या	**पाठ्यक्रम कोड**	**पाठ्यक्रम का नाम**	**कोर्स क्रेडिट**
B-Tech 3rd Year ChE			
6 (Even)			
1	CH301	Process Instrumentation	6
2	CH313	Equipment Design: Mechanical Aspects	9
3	CH413	Plant Design and Economics	9
4	CH202	Corrosion Engineering	6
5	CH481	Natural Gas Processing	9

6	CH413	Plant Design and Economics Lab	2
7	CH543	Fluidization Engineering	9
Summer			
1	CH417	Summer Internship (6 Weeks)	5
क्रम संख्या	**पाठ्यक्रम कोड**	**पाठ्यक्रम का नाम**	**कोर्स क्रेडिट**
B-Tech 3rd Year PEE			
5 (Odd)			
1	CH375	Mass Transfer Operations-2	9
2	CH352	Chemical Reaction Engineering-2	8
3	CH395	Chemical Process Technology	9
4	CH414	Process Equipment Design	6
5	CH591	Petrochemical Process Technology	6
6	CH341	Process Dynamics and Control	11
7	CH274L	Mass Transfer Operation Lab	2
8	CH341L	Process Dynamics and Control Lab	2
9	CH591L	Petrochemicals Lab	2
10	CH414P	Process Equipment Design Project	2
क्रम संख्या	**पाठ्यक्रम कोड**	**पाठ्यक्रम का नाम**	**कोर्स क्रेडिट**
B-Tech 3rd Year PEE			
6 (Even)			
1	CH301	Process Instrumentation	6
2	CH313	Equipment Design: Mechanical Aspects	9
3	CH413	Plant Design and Economics	9
4	CH202	Corrosion Engineering	6
5	CH391	Polymer Synthesis & Properties	8
6	CH393	Polymer Processing	6
7	CH391L	Polymers Lab	2
8	CH413L	Plant Design and Economics Lab	2
क्रम संख्या	**पाठ्यक्रम कोड**	**पाठ्यक्रम का नाम**	**कोर्स क्रेडिट**
B-Tech 3rd Year REE			
5 (Odd)			
1	CH375	Mass Transfer Operations-2	9
2	CH352	Chemical Reaction Engineering-2	8
3	CH392	Chemical Process Technology	9
4	CH414	Process Equipment Design	6
5	CH203	Energy Resources & Utilization	6
6	CH341	Process Dynamics and Control	11
7	CH274L	Mass Transfer Operation Lab	2

8	CH203L	Energy Resources & Utilization Lab	2
9	CH341L	Process Dynamics and Control Lab	2
10	CH414P	Process Equipment Design Project	2
क्रम संख्या	**पाठ्यक्रम कोड**	**पाठ्यक्रम का नाम**	**कोर्स क्रेडिट**
B-Tech 3rd Year REE			
6 (Even)			
1	CH301	Process Instrumentation	6
2	CH313	Equipment Design: Mechanical Aspects	9
3	CH413	Plant Design and Economics	9
4	CH451	Electrochemical Processes and Energy Systems	9
5	CH202	Corrosion Engineering	6
6	CH305	Nuclear Energy Engineering	9
7	CH508L	Energy Conversion Lab	2
Summer			
1	CH417	Summer Internship (6 Weeks)	5
क्रम संख्या	**पाठ्यक्रम कोड**	**पाठ्यक्रम का नाम**	**कोर्स क्रेडिट**
B-Tech 4th Year ChE			
7 (Odd)			
1		Seminar / CDC Course	2
2		Group Discussion	2
क्रम संख्या	**पाठ्यक्रम कोड**	**पाठ्यक्रम का नाम**	**कोर्स क्रेडिट**
B-Tech 4th Year ChE			
8 (Even)			
1	CH418	B.Tech. Project	40
क्रम संख्या	**पाठ्यक्रम कोड**	**पाठ्यक्रम का नाम**	**कोर्स क्रेडिट**
B-Tech 4th Year PPE			
7 (Odd)			
1		Seminar / CDC Course	2
2		Group Discussion	2
क्रम संख्या	**पाठ्यक्रम कोड**	**पाठ्यक्रम का नाम**	**कोर्स क्रेडिट**
B-Tech 4th Year PPE			
8 (Even)			
1	CH418	B.Tech. Project	40
क्रम संख्या	**पाठ्यक्रम कोड**	**पाठ्यक्रम का नाम**	**कोर्स क्रेडिट**
B-Tech 4th Year REE			
7 (Odd)			
1		Seminar / CDC Course	2

2		Group Discussion	2
क्रम संख्या	**पाठ्यक्रम कोड**	**पाठ्यक्रम का नाम**	**कोर्स क्रेडिट**
B-Tech 4th Year REE			
8 (Even)			
1	CH418	B.Tech. Project	40

रोल पर छात्र

क्रम संख्या	कार्यक्रम	I वर्ष	II वर्ष	III वर्ष	IV वर्ष	V वर्ष और उससे अधिक
1.	बी.टेक.सीएचई	66	66	52	12	NA
2.	बी.टेक.आरईई	15	10	8	NA	NA
3.	बी.टेक.पीपीई	20	13	NA	NA	NA
4.	एम.टेक./एम.फार्मा.	0	0	NA	NA	NA
5.	पीएच.डी. (संस्थान फेलोशिप के अंतर्गत)	1	3	4	2	7
6.	पीएच.डी. (प्रोजेक्ट फेलोशिप के अंतर्गत)	0	0	1	0	0
7.	पीएच.डी. (प्रायोजित श्रेणी के अंतर्गत)	1	4	2	4	1

विदेश या भारत में सम्मेलनों/कार्यशालाओं/सेमिनारों और संगोष्ठियों में भाग लेने वाले छात्रों/विद्वानों के नाम

क्र.सं.	छात्र का नाम	रोल नंबर	सम्मेलन/सेमिनार/संगोष्ठी/कार्यशाला	तिथि एवं स्थान	वित्तीय सहायता से
भारत					
1	सिद्धार्थ अटल	22CE0008	International Conference on Frontiers in Electrochemistry, Innovations in Supercapacitors and Batteries	20th – 21st Aug 2024 B.S.ABDURRAHMANCRESCENTINSTITUTEOFSCIENCEANDTECHNOLOGY,CHENNAI,INDIA	Self
2	सिद्धार्थ अटल	22CE0008	International Conference on Advanced Materials for Sustainable Development (ICAMSD 2025)	28 - 29 March, 2025 ,MNIT Jaipur, India	RSG
3	सौरभ कुमार	22CE0006	International Conference on Advanced Materials for Sustainable Development (ICAMSD 2025)	28 - 29 March, 2025 ,MNIT Jaipur, India	RSG
4	स्वाति चौधरी	22CE0007	International Conference on Advanced Materials for Sustainable Development (ICAMSD 2025)	28 - 29 March, 2025 ,MNIT Jaipur, India	RSG

5	आश मोहम्मद	20ce0001	CHEMOCON-24	27-30-Dec-2024 NITJ	RSG-Fund
	आश मोहम्मद		ICONEST-2024	September18, 2024 to September 20, 2024,CSIR-NPL, Delhi	RSG fund
6	स्वप्ना पटेल	23CE0009	Conference	Dec 27, 2024 NIT Jalandhar	RSG
7	शिखा शर्मा	22ce0012	Compflu- 2024	December 16 2024 to December 18 2024 IIT, Hyderabad	RSG
8	नियामत उल्लाह खान	20ce0008	IChE-CHEMCON 2024	December 27, 2024 to December 30, 2024 NIT jalandhar	NTPC NETRA project P-2401
8	हरिकेश्वर पांडे	20ce0007	"CHEM-TECHNOVA 2025"	April 03, 2025 to April 5, 2025	RSG
9	भूपेन्द्र कुमार	21CE0006	SPARC Workshop on Crystallization Systems Engineering	18, February to 20 February, 2025 IIPE, Vishakhapatnam	Self
10.	अजीत कुमार प्रजापति	20ce0002	Workshop, IIT Jodhpur	December 1, 2024 to December 29, 2024	RSG
11.	हरिकेश वर पांडे	20ce0007	CHEM-TECHNOVA 2025	April 03, 2025 to April 5, 2025	RSG
विदेश					
1	अजीत कुमार प्रजापति	20ce0002	Conference (ICRI-2025) Bali, Indonesia	May 05th, 2025 to May 6th,2025	R&D, Department fund, RSG
2	आश मोहम्मद	20ce0001	Conference (ICRI-2025) Bali, Indonesia	May 05th, 2025 to May 6th,2025	R&D, Department fund, RSG

संस्थान के बाहर पुरस्कार और सम्मान पाने वाले छात्रों/विद्वानों के नाम

क्रम संख्या	छात्र का नाम	रोल नंबर.	पुरस्कार का नाम	तिथि एवं स्थान	पुरस्कार प्रदान करने वाला
1	सिद्धार्थ अटल	22CE0008	Best Poster Award	20th – 21st Aug 2024 B.S. Abdhurrahman Crescent Institute	International Conference on Frontiers in Electrochemistry

				of Science and Technology, Chennai, India	
2	सौरभ कुमार	22CE0006	Best Oral Presentation Award	28 - 29 March, 2025, MNIT Jaipur, India	International Conference on Advanced Materials for Sustainable Development (ICAMSD 2025)
3	स्वाति चौधरी	22CE0007	Best Oral Presentation Award	SCHEMCON 2024 held on September 20-21, 2024	SCHEMCON 2024
4	आश मोहम्मद	20ce0001	Best oral presentation award	Bali Indonesia	ICRI
5	अजीत कुमार प्रजापति	20ce0002	Young Achiever Awards	5-6th May,2025 Bali, Indonesia	IRSA, European Union
	अजीत कुमार प्रजापति	20ce0002	Best Oral Presentation Award	5-6th May,2025 Bali, Indonesia	IRSA, European Union
	अजीत कुमार प्रजापति	20ce0002	Prof. A Suryanarayana and Mrs Vanajakshi Award for the Best Author of Chemical Engineering Book Chapter	2024-2025	IIChE
6	अर्जुन कृष्ण	21ce3001	Bhumistha Infra Services Award	July 05-06, 2025	OYCE 2025 Awards Ceremony organized by IIChE-MRC held at IIT Bombay
7	श्री आदित्य कश्यप	22ce3005	Donald F. Othmer & Mildred Topp Scholarship Award	2024-2025	AIChE International
	श्री आदित्य कश्यप	22ce3005	**Prof. A Suryanarayana and Mrs Vanajakshi Award** for the **Best Author** of Chemical Engineering Book	2024-2025	IIChE

			Chapter		
	श्री आदित्य कश्यप	22ce3005	**Pankaj P Patel Trust Essay Competition**	2024-2025	IIChE
8	मो. अरहम इब्तेसाम	22ce3032	2nd prize in poster presentation	20 September 2024 – 21 September 2024	IIChE
9	श्री विनायक अवस्थी	23ce3060	Donald F. Othmer Second Year Student Academic Excellence Award	2024-2025	AIChE International
	श्री विनायक अवस्थी	23ce3060	2nd prize in ChemE Research Expo	12th March 2025	Tryst 2025, IIT Delhi
10	श्री पीयूष सिंह	23pp3002	Freshmen Student Recognition Award	2024-2025	AIChE
11	मो. यासर	23ce3069	beVisioneerrs: The Mercedes-Benz Fellowship	Cohort 3, 2025	Mercedes-Benz

विदेश में इंटर्नशिप के लिए गए छात्रों/स्कॉलर के नाम

क्रम संख्या	छात्र का नाम	रोल नंबर	संगठन का नाम	इंटर्नशिप का स्थान	देश	अवधि
1	सिद्धार्थ अटल	22CE0008	Ohio University, USA	Ohio	USA	3 Months

संकाय और उनकी विशेषज्ञता के क्षेत्र

क्रम संख्या	नाम, योग्यता	पीएचडी डिग्री प्रदान करने की तिथि	विशेषज्ञता के प्रमुख क्षेत्र (अधिकतम 3 क्षेत्र)
प्रोफेसर			
1	प्रो. ए.एस.के सिन्हा विजिटिंग प्रोफेसर	1990	Heterogeneous Catalysis for photocatalysis, hydrocarbons generation and bio-fuel production; Production, storage and ases of hydrogen; Process intensification
2	प्रो. अमित रंजन	2007	Polymeric Nanostructures, Oxide Semiconductor Nanoparticles, Composite Materials, Fracture in Soft Materials, Complex Fluids
3	प्रोफेसर एम.एस. बालाथनिगइमनी	2009	Adsorbed Natural Gas, Hydrogen storage by Adsorption, Adsorptive Desulfurization

एसोसिएट प्रोफेसरों			
1	डॉ राकेश कुमार	2011	Process Modeling & Simulation, CO2 Capture Using Ionic Liquids/Deep Eutectic Solvents, Advanced Separation Processes, Biodiesel Production
2	डॉ मिलन कुमार	2011	Redox flow battery Electrolyser Fuel cell
3	डॉ कौशिक गुहा विश्वास,	August 2015	Microfluidics, Multiphase Flow, Biofuels
4	डॉ वी एस सिस्टला	July 2012	Crystallization, Industrial Catalysis
सहायक प्रोफेसर			
1	डॉ गुंजन कुमार अग्रहरि	July 2013	Biofuel Production from waste, Membrane Separation, Microbial fuel cell
2	डॉ दीपक द्विवेदी	2020	Corrosion Science and Engineering, Surface Science and Engineering, Adsorption to minerals and fluid-mineral interaction
3	डॉ श्वेता	March 2017	Rheology of complex fluids, Biofuel, Interfacial rheology of crude oil-water interfaces, emulsions
4	डॉ विवेक कुमार	June 2019	Economic Plantwide Control, Smart Control Structure design, Modelling and Simulation
5	डॉ करण मलिक	July 2021	Batteries, Fuel Cells, Electrochemical Systems
6	डॉ सुप्रिया पुलिपाका	2020	Batteries, Photoelectrochemical water splitting, Renewable energy
7	डॉ अरविन्द सिंह	March 2018	Heterogeneous Catalysis & Hydrogen Energy, Bio-fuels & Biomaterials, Bioremediation

तकनीकी और गैर-शिक्षण कर्मचारी

क्रम संख्या	नाम, योग्यता	पदनाम, कर्मचारी संख्या	विभाग में नियुक्ति की तिथि
1.	श्री अरुण कुमार सिंह	तकनीकी अधीक्षक (ग्रेड-II)	16 अगस्त 2019
2.	श्री उमेश कुमार शर्मा (एम.कॉम)	सहायक (ग्रेड III)	16 अगस्त 2019
3.	अल्पना सिंह	तकनीकी अधीक्षक (ग्रेड-I) (अनुबंध पर)	15 जुलाई 2024
4.	श्री अनुज श्रीवास्तव (पोस्ट डिप्लोमा प्लास्टिक टेक्नोलॉजी, सीआईपीईटी लखनऊ)	सहायक ग्रेड-I (अनुबंध पर)	20 दिसंबर 2019
5.	श्री महेश मौर्य	परिचारक (अनुबंध पर)	16 अगस्त 2019
6.	श्री सुरजीत कुमार	परिचारक (अनुबंध पर)	16 अगस्त 2022

संकाय सदस्यों द्वारा आयोजित अल्पकालिक पाठ्यक्रम/कार्यशालाएं/सेमिनार/संगोष्ठी/सम्मेलन

पद

क्रमांक	समन्वयक	शीर्षक	अवधि
1	डॉ. मिलन कुमार (अध्यक्ष), डॉ. राकेश कुमार (उपाध्यक्ष), डॉ. करण मलिक (आयोजन सचिव), डॉ. श्वेता (संयुक्त आयोजन सचिव), डॉ. दीपक द्विवेदी (संयुक्त आयोजन सचिव), डॉ. गुंजन कुमार अग्रहरि (कोषाध्यक्ष)	SCHEMCON 2024	20-21 September 2024
2	डॉ. केजी बिस्वास, डॉ. अरविंद सिंह, डॉ. रोहित बंसल	Petroleum Refining Technology	24 March to 04 April 2025
3	डॉ. अरविंद सिंह, डॉ. शैलेश कुमार, डॉ. सौरभ पांडे	One-Day National Seminar on "Technological Options for a Clean & Sustainable Planet	25 March 2025

शैक्षणिक संस्थानों और सार्वजनिक क्षेत्र के उपक्रमों में संकाय सदस्यों द्वारा भाग लिए जाने वाले अल्पकालिक पाठ्यक्रम/कार्यशालाएं/सेमिनार/संगोष्ठी/सम्मेलन/प्रशिक्षण कार्यक्रम

क्र.सं.	संकाय सदस्य का नाम	शीर्षक	अवधि और स्थान
सेमिनार/संगोष्ठी/सम्मेलन			
1.	डॉ. श्वेता	95th Annual Meeting of The Society of Rheology, Austin USA	13th-17th October 2024 Austin, Texas, USA
2.	कौशिक गुहा बिस्वास	Session Chair Chemcon 2024	27 to 30th Dec 2024
3	कौशिक गुहा बिस्वास	Intensifying Separation Processes by Energy Efficient Methods for Multiphase Flow Systems	Invited talk at Chemcon 2024 on December
4	डॉ. जी.के. अग्रहरि	CHEM TECHNOVA - 25	HBTU, Kanpur
5	डॉ विवेक कुमार	India Energy Week (IEW) 2025	11th- 14th Feb 2025, New Delhi
6	डॉ मिलन कुमार	India Energy Week (IEW) 2025	11th- 14th Feb 2025, New Delhi

अन्य संस्थानों के संकाय सदस्यों द्वारा दिए गए विशेष व्याख्यान

क्र.सं.	संकाय सदस्य का नाम	व्याख्यान का विषय	संस्थान	तिथि
1	डॉ अरविन्द सिंह	Need for Understanding	BIT Sindri Dhanad	25 September 2024
2	डॉ विवेक कुमार	Simulation of Chemical Processes	MMMUT Gorakhpur	4th- 8th Oct 2024

3	कौशिक गुहा बिस्वास	Intensifying Separation Processes by Energy Efficient Methods for Multiphase Flow Systems	NIT Jalandhar at Chemcon 2024	29.12.2024
4	डॉ. सुप्रिया पुलिपाका	Advanced materials for production of hydrogen using photoelectron chemical water splitting	NIT Warangal	March 22nd 2025

संकाय सदस्यों द्वारा विदेश यात्राएं

क्र.सं.	संकाय सदस्य का नाम	दौरा किया गया देश	भारत छोड़ने की तिथि	भारत लौटने की तिथि	यात्रा का उद्देश्य	वित्त पोषण कहां से
1	डॉ. श्वेता	USA	12th October 2024	19th October 2024	Paper presentation in conference	RGIPT and ANRF (ITS)

लिखित/सह-लिखित पुस्तकें, मोनोग्राफ

क्रम संख्या	लेखक/सह-लेखक का नाम	शीर्षक	प्रकाशक
1	ए.त्रिपाठी, के.सरकार, एस.पटेल, यू.मिश्रा, केडीपी निगम, डी.पांडा, के.जी. बिस्वास,	Elucidating Flow-directed 98% CO_2 Absorption Using Millimeter-sized Coild Flow Inverters: Nanocellulose-aided Sustainable Scope	Elsevier
2	के.जी. बिस्वास, आर. चौधरी, एस. डे,	Secondary pyrolysis process advancement leads to Sustainable Development, S. Poddar	Elsevier
3	ए. कुमार, ए. आनंद, ए. त्रिपाठी, पी.एन. सिंह, डी. पांडा, के.डी.पी. निगम, के.जी. बिस्वास,	A Sustainable Route of Mass Transfer for Liquid-Liquid Flow in Millimeter-sized Conduit: Unearthing the Potential of Argo waste-derived Nanomaterials	Springer
4	ए. त्रिपाठी, एस. पाल, एस. पटेल, ए. दास, के.डी.पी. निगम, के.जी. बिस्वास,	Flow Chemistry of Gallic Acid Condensation in Coiled Flow Inverter: Production of Highly Fluorescent Xanthene	Willey
5	एम. यादव, टी. शर्मा, ए. महमूद, के.जी. बिस्वास	Synthesis, Stability, Rheological Characterization, and Application Potential of TiO2-PAM Nanofluids for Light Paraffinic Crude Oil Reservoir	Elsevier
6	अजीत.के.प्रजापति आदित्य के., राकेश के., हार्दिक वलेरा, अविनाश कुमार अग्रवाल	Hydrogen Fuel in Internal Combustion Engines: Advancements and Challenges	Springer Nature
7	अजीत.के.प्रजापति आदित्य के., राकेश के., हार्दिक वलेरा, अविनाश कुमार अग्रवाल	Alcohol for fueling IC Engines	Springer Nature

डिज़ाइन और विकास गतिविधियाँ

नई सुविधाएँ जोड़ी गईं

क्रम संख्या	विवरण (बुनियादी संरचना, उपकरण, आदि)	मूल्य (लाखों रुपये में)
1	High pressure temperature packed bed reactor	27 lac approx
2	DC power source (supplies electricity to the electrolyzer)	14.36 approximate
3	Programmable Thermostat	12,22,395.00
4	Setup Performance Test for PV cell	2,85,000.00
5	Setup for Solar to Thermal Energy Conversion	4,55,000.00
6	Setup Performance Test of wind Machine	9,45,000.00

पेटेंट

क्र. सं.	संकाय सदस्य का नाम	पेटेंट का शीर्षक
1	डॉ. दीपक द्विवेदी	Blister Resistant And Corrosion Resistant Additive For Red Oxide Primer, Patent No. 560868, (Granted)
2	डॉ. दीपक द्विवेदी	In-house inhibitors developed for ethanol blended fuel, application number -202411052810
3	डॉ. दीपक द्विवेदी	“Impact of Green Synthesized Corrosion Inhibitor on DSS2205 in Acidic and Brine Media”

अनुसंधान और परामर्श

प्रायोजित अनुसंधान परियोजनाएँ

क्रम संख्या	शीर्षक	अवधि	वित्तपोषण एजेंसी	राशि (लाखों रुपये में)	समन्वयक
1	Sustainable & Point-Source CO2 Capture Method: Role of Hydrodyanics on Gas-Liquid reaction	October 2024 to October 2027	UPCST	16.08 Lacs	डॉ. के.जी. बिस्वास
2	Methanol- Diesel blending to achive stable mixtures	2 years	NRL	83.00 Lacs	डॉ. श्वेता
3	Propylene/propane separation via Ziph 8 based composite membrane	February 2025 to February 2025	BPCL	6481085.00 + Taxes	डॉ. वी. एस. सिस्टला

समझौता ज्ञापनों के तहत अन्य विश्वविद्यालयों के साथ संकाय सदस्यों की भागीदारी अनुसंधान प्रकाशन

क्रम संख्या		संख्या
1	रेफरीड अंतर्राष्ट्रीय पत्रिकाओं में प्रकाशित शोधपत्रों की कुल संख्या	8
2	राष्ट्रीय सम्मेलनों में प्रस्तुत शोधपत्रों की कुल संख्या	01

रेफरीड अंतर्राष्ट्रीय पत्रिकाएँ

1. Harikeshwar Pandey, Ansu Pandey, Gunjan Kumar Agrahari, Biofuels, April 25.
2. Harikeshwar Pandey, Anshu Pandey, ASK Sinha, Gunjan Kumar Agrahari, Jpurnal of material cycles & waste management, July – 25.
3. Pragati Pandey, Gunjan Kumar Agrahari, Akansha Patel, Arvind Singh, Biodegradation, August – 25.
4. 4.Conversion of rice straw and sugarcane bagasse waste to biochar through pyrolysis: influence of feedstock and process conditions.
5. Pyrolysis of rice-straw and mustard-oil residue blend: evaluation of biochar properties for its sustainable use.
6. Performance analysis of a multi-scale thermal energy storage system with varying volumes using polyurethane-encapsulated sodium sulphate decahydrate for building applications- Energy and Buildings (Elsvier-Science direct).
7. Uttam, A., Kumar, B., & Sistla, V. S. (2025). Performance analysis of a multi-scale scaled thermal energy storage system with varying volumes using polyurethane-encapsulated sodium sulphate decahydrate for building applications. *Energy and Buildings*, 116390. https://doi.org/10.1016/j.enbuild.2025.116390
8. Ajeet Kumar Prajapati, Shalu Yadav, Amit Kumar Gomey, Abhay Kumar Choubey, and Rakesh Kumar. "Assessment of Performance and Emission Characteristics of CI Engine Using Tyre Pyrolysis Oil and Biodiesel Blends by Nano Additives: An Experimental Study." Journal of the Energy Institute, Elsevier, Vol. 117, (2024): 101825. https://doi.org/10.1016/j.joei.2024.101825.
9. Ajeet Kumar Prajapati, Abhishek Saini, Siddharth Atal, Saurabh Kumar, Gajendiran Mani, Ramesh Prabhu Vellaichamy, Lavanya Melcureraj, Rakesh Kumar, and Deepak Dwivedi. "Assessing the effect of different biodiesels on corrosion of nickel alloy." Materials Today Sustainability, Elsevier, Vol. 28, (2024): 100968. https://doi.org/10.1016/j.mtsust.2024.100968 (Indexing: SCIE/SCOPUS, IF: 7.9, SCImago Journal Rank: Q1)
10. Ajeet Kumar Prajapati, Syed Saim Ali, Khursheed B. Ansari, Moina Athar, Mohammed K. Al Mesfer, Mumtaj Shah, Mohd Danish, Rakesh Kumar, and AR Shakeelur Raheman. "Process intensification in biodiesel production using unconventional reactors." Fuel, Elsevier, Vol. 380 (2025): 133263. https://doi.org/10.1016/j.fuel.2024.133263. (Indexing: SCIE/SCOPUS, IF: 7.5, SCImago Journal Rank: Q1)
11. Ajeet Kumar Prajapati, Amit Kumar Gomey, Deepak Dwivedi, Rakesh Kumar. “Evaluating the performance of batch, tubular coiled and coil flow invertor reactors in biodiesel production from Karanja and used cooking oil”. Chemical Engineering and Processing - Process Intensification,

Elsevier, Vol. 215, (2025),110375, https://doi.org/10.1016/j.cep.2025.110375 (Indexing: SCIE/SCOPUS, IF: 3.9, SC Imago Journal Rank: Q1).

12. Khursheed B. Ansari, Ajeet Kumar Prajapati, Syed Saim Ali, Mohammed K Al. Mesfer, Abubakr Elkhaleefa, Shakeelur Raheman A.R., Rakesh Kumar, Quang Thang Trinh "Comprehensive Review on Biomass Chemical Looping Combustion: Feedstock Type, Operating Conditions, Reactor Design, Technological Advancement, Mechanistic Insights, and Economics" Journal of Environmental Chemical Engineering, Elsevier, Vol.13 (2025) 116947. https://doi.org/10.1016/j.jece.2025.116947. (Indexing: SCIE/SCOPUS, IF: 7.4, SC Imago Journal Rank: Q1).
13. Optimization and evaluation of Eisenia fetida based vermicompost derived from fish processing waste, rice straw, and biogas slurry for sustainable agriculture.
14. PK Shirvastva, S Kumari, RKSingh, Arvind Singh, AK Choubey
15. Process Safety and Environmental Protection, 107225

रेफरीड नेशनल जर्नल

1. Synthesis, Stability, Rheological Characterization, and Application Potential of TiO2-PAM Nanofluids for Light Paraffinic Crude Oil Reservoir, M. Yadav, T. Sharma, A. Mahmood, K.G. Biswas, Materials Science & Engineering B, 323, 2026, 118773.
2. Flow Chemistry of Gallic Acid Condensation in Coiled Flow Inverter: Production of Highly Fluorescent Xanthene, A. Tripathi, S. Pal, S. Patel, A. Das, K.D.P. Nigam, K.G. Biswas, D. Panda, Chem Plus Chem, 2025, 00, e202500313, 1-10.
3. A Sustainable Route of Mass Transfer for Liquid-Liquid Flow in Millimeter-sized Conduit: Unearthing the Potential of Argo waste-derived Nanomaterials, A. Kumar, A. Anand, A. Tripathi, P.N. Singh, D. Panda, K.D.P. Nigam**, K.G. Biswas**, Waste and Biomass Valorization, https://doi.org/10.1007/s12649-025-03124-3, 2025.
4. Secondary pyrolysis process advancement leads to Sustainable Development, S. Poddar, K.G. Biswas, R. Chowdhury, S. De, Clean Technologies and Environmental Policy, 2025, https://doi.org/10.1007/s10098-025-03234-5.
5. Elucidating Flow-directed 98% CO_2 Absorption Using Millimeter-sized Coild Flow Inverters: Nanocellulose-aided Sustainable Scope, A. Tripathi, K. Sarkar, S. Patel , U. Mishra, KDP Nigam, D. Panda, **K.G. Biswas**, Chemical Engineering & Processing: Process Intensification, 205 (2024) 110022.

Proceedings of International Conferences

1. Presented a paper titled “Sustainable Biodiesel from Novel Feedstocks: Synthesis, Optimization, and Combustion Insights” at the International Conference on Research Innovations (ICRI-2025), organized by ISRA and EIST (EU), held in Bali, Indonesia, from May 5–6, 2025.



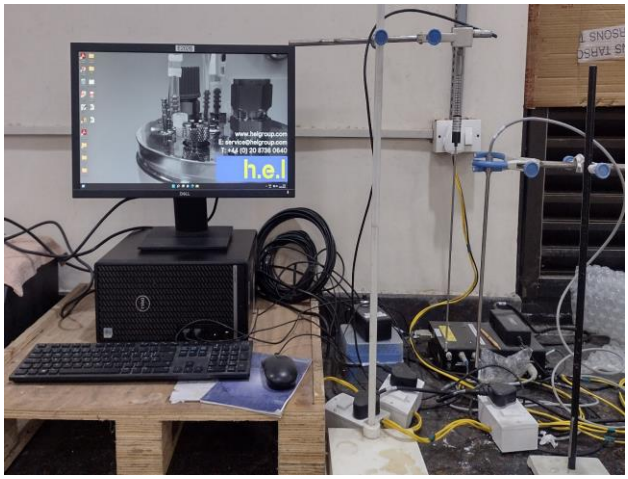
Capillary Flow Porometer



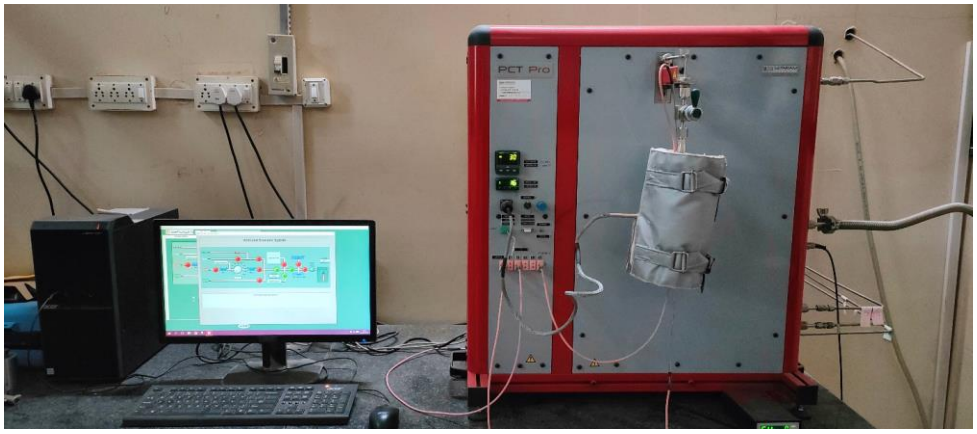
Electron Beam Evaporation Systems



Multi Channel Potentiostat/Galvanostat



Turbidity Sensor



Turbidity Sensor

अध्याय- 6

पेट्रोलियम इंजीनियरिंग और जियोइंजीनियरिंग विभाग

स्थापना का वर्ष: 2008

विभागाध्यक्ष: आचार्य सतीश कुमार सिन्हा- अक्टूबर 2022 से

आधारभूत संरचना:

क्रम संख्या	विवरण	संख्या
1	कक्षाओं की संख्या	3 Nos. (AB-1:LR2, L-4 & LR-5)
2	प्रयोगशाला की संख्या	6 Nos. (UG-4 & PG-2)
3	विभाग/केंद्र/केंद्र में छात्रों के लिए उपलब्ध कंप्यूटरों की संख्या	17 (for PG students)

नए पाठ्यक्रम शुरू किए गए:

क्रम संख्या	कोर्स कोड	कोर्स का नाम	कोर्स क्रेडिट
1	PE412	Drilling System Design	9
2	PE451	City Gas Distribution	6
3	PE452	LNG and NGL Fundamentals	6

अध्ययनरत छात्र संख्या-

क्रम संख्या	कार्यक्रम	I वर्ष	वर्ष II	वर्ष III	वर्ष IV वर्ष
1.	बी.टेक/बी. आर्क	55	56	43	27
2.	पीएचडी (संस्थान फेलोशिप के अंतर्गत)	13			
3.	पीएचडी (प्रोजेक्ट फेलोशिप के अंतर्गत)	3			
4.	पीएचडी (प्रायोजित श्रेणी के अंतर्गत)	3			

उन छात्रों/विद्वानों के नाम जिन्होंने विदेश में या भारत में सम्मेलनों/कार्यशालाओं/सेमिनारों और संगोष्ठियों में भाग लिया

क्र.सं.	छात्र का नाम	रोल नंबर	सम्मेलन/सेमिनार/संगोष्ठी/कार्यशाला	तिथि एवं स्थान	वित्तीय सहायता से
भारत					
1	आदित्य राज कश्यप	21PE3003	India Energy Week - 2025	11th – 14th Feb 2025, New Delhi	HPCL
2	शशांक वाजपेई	21PE3011	India Energy Week - 2025	11th – 14th Feb 2025, New Delhi	HPCL

3	सोमाभा भट्टाचार्जी	21PE3012	India Energy Week - 2025	11th – 14th Feb 2025, New Delhi	HPCL
4	जतिन कुमार	21PE3025	India Energy Week - 2025	11th – 14th Feb 2025, New Delhi	HPCL
5	तनिष्क राज	21PE3023	India Energy Week - 2025	11th – 14th Feb 2025, New Delhi	HPCL
6	अमरेश मिश्रा	21PE3020	India Energy Week - 2025	11th – 14th Feb 2025, New Delhi	HPCL
7	चारु स्मिता	22PE3020	India Energy Week - 2025	11th – 14th Feb 2025, New Delhi	HPCL
8	देव वर्मा	22PE3021	India Energy Week - 2025	11th – 14th Feb 2025, New Delhi	HPCL
9	एमडी अरहान अहमद	22PE3033	India Energy Week - 2025	11th – 14th Feb 2025, New Delhi	HPCL
10	विशेश्वर	22PE3051	India Energy Week - 2025	11th – 14th Feb 2025, New Delhi	HPCL
11	अनिकेत कुमार सिंह	22PE3008	Workshop on Carbon Capture and Storage (CCS) in Basalts	3rd – 5th Feb 2025, IIT Gandhinagar	EAGE
12	आशुतोष झा	21PE3024	GeoIndia 2024	15th – 17th Nov 2024, Noida	RGIPT
13	दिव्यांशू सिंह	21PE0005	URJAVARTA 2025	17th July, 2025	DGH
14	दिव्यांशू सिंह	21PE0005	The International Conference on Petroleum, Hydrogen and Decarbonisation (ICPHD-2024)	December 14, 2024, IIT (ISM) Dhanbad	DST-SERB (ANRF)
15	दिव्यांशू सिंह	21PE0005	International Conference on	Divyanshoo Singh	21PE0005
16	दिव्यांशू सिंह	21PE0005	International Conference on Earth: From Archaean to Proterozoic (ICEAP-2024)	19th –	Divyanshoo Singh
17	कौशल किशोर	21PE0006	40th Convention of Indian Association of Sedimentologists & National Conference on An Odyssey of	11-13th December 2024 BSIP Lucknow	BSIP Lucknow

			Sedimentology from Precambrian to Anthropocene: Significant Contributions in Environmental Climatic and Energy Research		
18	कौशल किशोर	21PE0006	8th National Geo-Research Scholars Meet	22-25 November 2024, Shri Mata Vaishno Devi University, Katra	Organizer - Wadia Institute of Himalayan Geology, Dehradun
19	मनीष श्रीवास्तव	21PE0102	International Conference on Transforming Upstream: Breakthrough Technologies and Sustainability	30.9.2024-01.10.2024, RGIPT	RGIPT
20	हिमांशु जयसवाल	22PE0003	International Conference on Transforming Upstream: Breakthrough Technologies and Sustainability	30.9.2024-01.10.2024, RGIPT	RGIPT
21	ज्ञान प्रकाश त्रिपाठी	23PE0001	International Conference on Transforming Upstream: Breakthrough Technologies and Sustainability	30.9.2024-01.10.2024, RGIPT	RGIPT
22	अब्दुल मुत्तलिब	24pe0001	Conference on Transforming Upstream: Breakthrough Technologies and Sustainability (ICTU-2024)	30th Sep and 1st Oct 2024,	RGIPT jais
23	आयुष चंद्र	21pe0004 (External)	6th South Asian Geosciences Conference and Exhibition, organized by the Association of Petroleum Geologists (APG) GeoIndia-2024	15-17 Nov 2024,	Greater Noida.
24	आयुष चंद्र	21pe0004	61st Annual Convention	3-5 Dec 2024,	Banaras Hindu

		(External)	of Indian Geophysical Union (IGU),		University
25	त्वमिका अत्रि	22PE3050	2nd International Conference on Petroleum, Hydrogen, and Decarbonization (ICPHD 2024)	12th to 14th December 2024, IIT (ISM) Dhanbad	SERB
26	वृंदा सिंह	22PE3052	2nd International Conference on Petroleum, Hydrogen, and Decarbonization (ICPHD 2024)	12th to 14th December 2024, IIT (ISM) Dhanbad	SERB
27	सागर कुमार	22PE3042	2nd International Conference on Petroleum, Hydrogen, and Decarbonization (ICPHD 2024)	12th to 14th December 2024, IIT (ISM) Dhanbad	RGIPT
28	ऋतांश प्रभा	22PE3041	2nd International Conference on Petroleum, Hydrogen, and Decarbonization (ICPHD 2024)	12th to 14th December 2024, IIT (ISM) Dhanbad	RGIPT
29	अनिकेत के सिंह	22PE3008	2nd International Conference on Petroleum, Hydrogen, and Decarbonization (ICPHD 2024)	12th to 14th December 2024, IIT (ISM) Dhanbad	RGIPT
30	शैलेन्द्र सिंह		Indian Chemical Engineering Congress (IIChE) 2024	NIT Jalandhar, India. December 27-30, 2024	ANRF
31	अरिन कुमार	22PE3053	International Conference on Petroleum, Hydrogen and Decarbonisation (ICPHD) 2024	IIT(ISM) Dhanbad, India. December 12-14, 2024	RGIPT
32	अविरल शर्मा	22pe3013	International Conference on Petroleum, Hydrogen and Decarbonisation (ICPHD) 2024	IIT(ISM) Dhanbad, India. December 12-14, 2024	ANRF
33	राजीव चौधरी		International Conference	RGIPT Jais, India.	

			on Transforming Upstream	September 30-October 1, 2024	
34	सोमाभा भट्टाचार्जी और अनुपम गिरी	21pe3012 & 21pe3005	20th Annual Session of 11th Chemical Engineering Congress (SCHEMCON-2024)	RGIPT Jais, India. September 20-21, 2024	
35	कृष्ण कुमार यादव	21PE0007	International Conference on Transforming Upstream: Breakthrough Technologies and Sustainability (ICTU 24)	30 Sept – 1st Oct 2024, RGIPT	RGIPT
36	कृष्ण कुमार यादव	21PE0007	GIAN course on "Inverse Methods and Machine Learning: Applications in Geosciences"	June 23 to 27, 2025, IIT(ISM) Dhanbad	SELF
37	जीतेन्द्र अर्गल	20PE0007	International Conference on Transforming Upstream: Breakthrough Technologies and Sustainability (ICTU 24)	30 Sept – 1st Oct 2024, RGIPT	SELF
38	अश्विनी कुमार यादव	JRA	International Conference on Transforming Upstream: Breakthrough Technologies and Sustainability (ICTU 24)	30 Sept – 1st Oct 2024, RGIPT	UPCST PROJECT
39	शुभकांत भोक्ता	21PE3013	International Conference on Transforming Upstream: Breakthrough Technologies and Sustainability (ICTU 24)	30 Sept – 1st Oct 2024, RGIPT	RGIPT
40	हलारी दर्शन किशोरभाई	23PE0002	India Energy Week 2025	11th – 14th Feb 2025, New Delhi	FIPI, ONGC Project
41	मोहम्मद शाहजर	23PE0006	India Energy Week 2025	11th – 14th Feb 2025, New Delhi	FIPI, ONGC Project
42	मोहम्मद शाहज़ार	23PE0006	UrjaVarta 2024	11th – 12th July 2024	DGH
43	ज़ेयतरन्नुम	23PE0009	International Conference on Transforming	30 Sept – 1st Oct 2024, RGIPT	SELF

			Upstream: Breakthrough Technologies and Sustainability (ICTU 24)		
विदेश					
1	अमरेश मिश्रा	21PE3020	IPTC 2025		SPE
2	अनुपम गिरि	21PE3005	APGCE 2024	19th – 21st Nov 2024, Kuala Lumpur, Malaysia	EAGE
3	अनिकेत सिंह	22PE3008	APGCE 2024	19th – 21st Nov 2024, Kuala Lumpur, Malaysia	EAGE
4	आदित्य अग्रवाल	22PE3004	APGCE 2024	19th – 21st Nov 2024, Kuala Lumpur, Malaysia	EAGE
5	दिव्यांशु सिंह	21PE0005	International Geomechanics Conference	November 18–20, 2024, Kuala Lumpur, Malaysia	International Geomechanics Conference & RGIPT
6	ए. बर्धन		17th International Conference on Nanostructured Materials (ICNM-NANO)	Abu Dhabi, United Arab Emirates, November 2024	SELF

संस्थान के बाहर पुरस्कार प्राप्त करने वाले विद्यार्थियों/विद्वानों के नाम:

क्रम संख्या	छात्र का नाम	रोल नंबर	पुरस्कार का नाम	तिथि एवं स्थान	पुरस्कार प्रदान करने वाला
1	हिमांशु जयसवाल	22PE0003	Silver medal in the quiz competition in a National workshop on “Rare Earth Elements, Rare Metals, and Strategic Minerals, REMS 2024,” funded by Geochemical Society, USA	(30 November- 02 December 2024), Department of Geology, Banaras Hindu University	Department of Geology, Banaras Hindu University
2	कौशल किशोर	21PE0006	Best Creative Poster Award	11-13th December 2024 BSIP Lucknow	BSIP Lucknow
3	सागर कुमार	22PE3042	2nd Best Poster, ICPHD	14th December	IIT (ISM)

			2024	2024, IIT (ISM) Dhanbad	Dhanbad
4	ऋतांश प्रभा	22PE3041	2nd Best Poster, ICPHD 2024	14th December 2024, IIT (ISM) Dhanbad	IIT (ISM) Dhanbad
5	मोहम्मद शाहजर	23PE0006	Exemplary Performance in Technical Paper	11th -12th July 2024, Bharat Mandapam, New Delhi	UrjaVarta 2024, DGH, India

संकाय और उनकी विशेषज्ञता के क्षेत्र:

क्रम संख्या	नाम, योग्यता, कर्मचारी संख्या	पीएचडी डिग्री प्रदान करने की तिथि	विशेषज्ञता के प्रमुख क्षेत्र (अधिकतम 3 क्षेत्र)
आचार्य			
1	प्रो. आलोक कुमार सिंह	December 1997	Coal Geology, Coal & Organic Petrology, Thermal Maturation
2	प्रो. सतीश कुमार सिन्हा	15 Dec 2006	Seismic Data Analysis, Geomechanics, Near Surface Geophysics
सह आचार्य			
1	डॉ. शिवांजलि शर्मा	15th May 2015	Drilling Fluid Design, Cementation and Flow Assurance
सहायक आचार्य			
1	डॉ. अमित सक्सैना	9 November 2015	Cementation, Speciality Chemical Additives for oil and Gas, EOR
2	डॉ. हेमन्त कुमार सिंह	20 July 2018	Geomechanics, CO2 sequestration in Geological Formation, Shale Gas
3	डॉ. शैलेश कुमार	9th October 2018	Flow Assurance, Drilling Fluid Design and Analysis, Enhanced Oil Recovery & CO_2 sequestration
4	डॉ. पीयूष सरकार	Aug 2019	Geophysics, Rock Physics, Petrophysics
5	डॉ. अमित कुमार	31st July 2020	EOR, Carbon Sequestration, Gas hydrate
6	डॉ सिद्धांत कुमार प्रसाद	13 Sep 2022	CO2 sequestration, Gas hydrates and unconventional resources, Enhanced Oil recovery

7	डॉ सिद्धार्थ गौतम	08/08/2022	Drilling, Rheology, Polymer
विजिटिंग फैकल्टी			
1		श्री अरविन्द भाटिया	
2		श्री राजेंद्र कुमार	

संकाय सदस्यों द्वारा आयोजित लघु अवधि के पाठ्यक्रम/कार्यशालाएं/सेमिनार/संगोष्ठी/सम्मेलन:

क्रमांक	समन्वयक	शीर्षक	अवधि
1	डॉ सिद्धांत कुमार प्रसाद	Artificial Lifts for Oil and Gas Wells	14/12/2024 to 15/12/2024
2	डॉ सिद्धांत कुमार प्रसाद	Harnessing Computational Fluid Dynamics in the Energy Sector: Techniques and Applications (H_CFD-2025)	23/01/2025 to 25/01/2025
3	डॉ. शिवांजलि शर्मा एवं डॉ. अमित सक्सैना	International Conference on Transforming Upstream: Breakthrough Technologies and Sustainability (ICTU 24)	30 Sept – 1st Oct 2024
4	डॉ. शिवांजलि शर्मा	12th Annual Student Convention-FIPI	4th April 2024
5	डॉ. शिवांजलि शर्मा	SERB Sponsored Workshop on “Energy Transition-Sustainable Pathways”	3rd April 2024

शैक्षणिक संस्थानों और सार्वजनिक क्षेत्र के उपक्रमों में संकाय सदस्यों द्वारा भाग लिए जाने वाले अल्पकालिक पाठ्यक्रम/कार्यशालाएं/सेमिनार/संगोष्ठी/सम्मेलन/प्रशिक्षण कार्यक्रम:

क्र.सं.	संकाय सदस्य का नाम	शीर्षक	अवधि और स्थान
सेमिनार/संगोष्ठी/सम्मेलन			
1.	डॉ. अमित कुमार	SPE/JAPT Workshop: CCUS and Low Carbon Fuel, organized by SPE	11th – 12th March 2025, Japan
2.	डॉ सिद्धांत कुमार प्रसाद	IITB-IEA Expert Level Workshop on 'Advancing CCUS and CDR in India	21/02/2025 to 23/02/2025
3.	डॉ. हेमन्त कुमार सिंह	International Conference on Earth: Archean to Proterozoic (ICEAP-2024)	19th-21st December 2024, MLSU, Udaipur, Rajasthan
4.	डॉ. हेमन्त कुमार सिंह	India Energy Week 2025	11th -14th February 2025, Delhi
5.	डॉ. हेमन्त कुमार सिंह	ICTU-24	30th -1st October 2024, RGIPT
6.	डॉ. हेमन्त कुमार सिंह	ICPHD-2024	12-14 December 2024, IIT (ISM), Dhanbad.

7.	डॉ. पीयूष सरकार	International Conference on Transforming Upstream: Breakthrough Technologies and Sustainability (ICTU) 2024	30-09-2024 to 01-10-2024; RGIPT Jais
8.	डॉ. पीयूष सरकार	National conference on "Emerging Trends in Earth Sciences: Geohazards and Resource Management (ETES-2024)	26-09-2024 to 29-09-2024; IIT (ISM, Dhanbad
9.	डॉ शैलेश कुमार	International Conference on Petroleum, Hydrogen and Decarbonisation (ICPHD) 2024	IIT(ISM) Dhanbad, India. December 12-14, 2024
10.	डॉ शैलेश कुमार	India Energy Week 2024	New Delhi, 11-14 Feb 2025
11.	प्रो.सतीश कुमार सिन्हा	SEG Beneath the Surface: Innovations in Geoscience symposium	18–20 June 2025, Hyderabad
12.	प्रो.सतीश कुमार सिन्हा	CII- Annual General Meting	30th May, 2025
13.	प्रो.सतीश कुमार सिन्हा	6th South Asian Geosciences Conference and Exhibition,	15-17 November 2024
14.	प्रो.सतीश कुमार सिन्हा	Indian Geophysical Union Conference, BHU	3-5 December 2024
15.	प्रो.सतीश कुमार सिन्हा	India Energy Week (IEW) 2025	11th February 2025
16.	डॉ. शिवांजलि शर्मा	UrjaVarta 2024	11th – 12th July 2024
17.	डॉ. अमित सक्सैना	UrjaVarta 2024	11th – 12th July 2024
18.	डॉ. शिवांजलि शर्मा	India Energy Week (IEW) 2025	11th February 2025
19.	डॉ. अमित सक्सैना	India Energy Week (IEW) 2025	11th February 2025
20.	डॉ. अमित सक्सैना	Inauguration ceremony of the Regional SNF Technical Centre, INDIA	12th September 2024
बैठक			
1	डॉ. अमित सक्सेना और डॉ. शिवांजलि शर्मा	Project Review Meeting, OIL Duliajan	18th December 2024
2	डॉ. अमित सक्सेना और डॉ. शिवांजलि शर्मा	Project Initiation Meeting, OIL Jodhpur	13th October,2024
3.	डॉ. शिवांजलि शर्मा	Project Review Meeting, DST Project	11th November 2024

अन्य संस्थानों में संकाय सदस्यों द्वारा दिए गए विशेष व्याख्यान

क्र.सं.	संकाय सदस्य का नाम	व्याख्यान का विषय	संस्थान	तिथि
1	डॉ. पीयूष सरकार	Energy Resources	UGC-IIT (ISM): Malaviya Mission Teacher Training Programme: Six-day online Short term / Faculty development programme	January 13 – 18, 2025
2	डॉ अमित सक्सैना	Invited Speaker for the 3rd International Conference on Energy, Functional Materials /Molecules and Nanotechnology (ICEFN-2025), “Unlocking India’s, CO_2, Storage Potential: A step Towards Carbon Neutralit	Kumaon University	21 March 2025.
3	प्रो.सतीश कुमार सिन्हा	Resistivity Survey for Flood Prevention and Management in Lakhisarai	C-DAC, Patna	July 3, 2024
4	प्रो.सतीश कुमार सिन्हा	Webinar on Oil and Gas Exploration	National Learning Week – MoPNG	October 24, 2024

संकाय सदस्यों द्वारा विदेश यात्राएं

क्र.सं.	संकाय सदस्य का नाम	देश का दौरा	भारत छोड़ने की तिथि	भारत लौटने की तिथि	यात्रा का उद्देश्य	से फंडिंग
1	डॉ. अमित कुमार	Japan	9th March 2025	13th March 2025	Presenting in SPE/JAPT Workshop: CCUS and Low Carbon Fuel, organized by SPE	ANRF – ITS, and CPDA

शैक्षणिक और व्यावसायिक समाजों की फैलोशिप

क्र.सं.	संकाय सदस्य का नाम	फेलोशिप का विवरण
1	प्रो. आलोक कुमार सिंह	Elected fellow of the Geological Society of India. Full members of the International Committee for Coal & Organic Petrology

संकाय सदस्यों द्वारा लिखित/सह-लेखक पुस्तकें, मोनोग्राफ:

क्रम संख्या	लेखक/सह-लेखक का नाम	शीर्षक	प्रकाशक
1	पीयूष सरकार, कुमार हेमन्त सिंह, टी.एन. सिंह, रंजना घोष	Laboratory Characterization of Shale: Measurement and Simulation	Springer Geophysics. Springer Nature Switzerland AG 2025
2	डॉ अमित सक्सैना	Chapter 10: Synthetic natural gas from coal, Rahimpour - Adv. in Nat. Gas Vol. 1 - Natural Gas Formation and Extraction, Dr. Amit Saxena, Elsevier, 2024. https://doi.org/10.1016/B978-0-443-19215-9.00004-9.	Elsevier

पत्रिकाओं के संपादकीय बोर्ड में संकाय सदस्य:

क्रम संख्या	संकाय सदस्य का नाम	पद (संपादक/ सदस्य)	जर्नल का नाम
1	डॉ. शिवान्जली शर्मा	संपादकीय सलाहकार बोर्ड के सदस्य	Discover Applied Science (Springer)

नवीन सुविधायें-

क्रम संख्या	विवरण (आधारभूत संरचना, यंत्र, इत्यादि)	मूल्य (लाख रु. में)
1	Stirred Pressure Reactor Autoclave	24.92
2	Core cutting machine	2.5 Lakh approx.
3	Microwave-based Heater Treater	13 Lakhs
4	Low Temperature High Efficiency Vacuum Dryer	5.91 Lakhs approx.

पेटेंट

क्रम संख्या	संकाय सदस्य का नाम	पेटेंट का शीर्षक
1	डॉ. अमित सक्सेना और डॉ. शिवांजलि शर्मा	Filed a patent with HMEL in Feb 2025 for the development of drag-reducing
2	डॉ. अमित सक्सेना और डॉ. शिवांजलि शर्मा	Filed a patent with ONGC Mehsana in 2025 for the development of a microwave-based separator.

अनुसंधान एवं परामर्श

क्रमांक	शीर्षक	अवधि	वित्तपोषण एजेंसी	धनराशिर (लाख रु. में)	समन्वयक
1	Study of hydrate promoters for development of transport system for CO2 as gas hydrate	January 2024 to January 2026	SERB	31.97	डॉ. अमित कुमार
2	CO2 sequestration in marine hydrate reservoirs with simultaneous energy recovery	August 2023 - Ongoing	RGIPT	10	डॉ सिद्धांत कुमार प्रसाद
3	Development of Synthetic Polymer-based Reservoir Drilling and Completion Fluid for High-pressure and High-temperature wells: Fluid Invasion Modeling and Mitigation	11/01/2024 – 10/01/2027	SERB	28	डॉ सिद्धार्थ गौतम
4	Feasibility Study on the Effect of Electromagnetic Radiation on Thermal Upgradation of Baghewala Heavy Crude Oil	13 December 2024-12 February 2024	OIL Jodhpur	4.625	डॉ. अमित सक्सेना और डॉ. शिवांजलि शर्मा
5	Study and one-step solution for downhole problems of Oil India Limited using multifunctional drilling fluid additive	June 2023-September 2025	Oil Duliajan	19.625	डॉ. शिवांजलि शर्मा और डॉ. अमित सक्सेना
6	Development and Evaluation of Nanocomposite-Pour Point Depressants (N-PPDs) to Improve the Flow Behaviour of Indian Waxy Crude Oils for Pipeline Transportation	2023-26 (3 years)	DST-ANRF	24.68	डॉ शैलेश कुमार
7	Detection & Mapping of underground utilities for smart city development using non-destructive Geophysical method, Ground Penetrating Radar	Dec 2023 to Dec 2026	UPCST	14.58	प्रो.सतीश कुमार सिन्हा

अनुसंधान प्रकाशन:

क्रम संख्या		संख्या
1	रेफरीड राष्ट्रीय पत्रिकाओं में प्रकाशित पत्रों की कुल संख्या	1
2	रेफरीड अंतर्राष्ट्रीय पत्रिकाओं में प्रकाशित पत्रों की कुल संख्या	36
3	राष्ट्रीय सम्मेलनों में प्रस्तुत पत्रों की कुल संख्या	14
4	अंतर्राष्ट्रीय सम्मेलनों में प्रस्तुत पत्रों की कुल संख्या	10

रेफरीड अंतर्राष्ट्रीय पत्रिकाएँ

1. Prasad, S. K., Kumar, Y., Bhawangirkar, D. R., Gaikwad, N., & Sangwai, J. S. (2024). Direct Flue Gas Injection into Ocean for Simultaneous Energy Recovery and CO2 Sequestration in Solid Hydrate Reservoirs. Energy & Fuels, 38(17), 16622-16637.
2. Singh, D., Nilankar, K., Singh, H.K., Kumar, A., Vishal, V. and Mustapha, K.A., 2025. Multiscale Characterization of Pore Evolution in Lesser Himalayan Black Shale from Krol Formation under Oxic Thermal Heating: Relevance to Untapped Shale Gas Extraction. Energy & Fuels.
3. Ansari, T.A., Singh, H.K., Mahanta, B.C., and Singh, T.N., 2025. Fracture toughness of three Indian crystalline rocks: Insights from acoustic emission analysis: TA Ansari et al. Journal of Earth System Science, 134(2), p.121.
4. Singh, D., Nilankar, K., Singh, H.K., and Ram, B.K., 2025. Impact of water saturation on physico-mechanical properties of fragile chandpur phyllite at varying foliation angles. Geotechnical and Geological Engineering, 43(1), p.2.
5. Nilankar, K., Singh, D., Singh, H.K., Kumar, A., and Mustapha, K.A., 2024. Evolution of Pore Morphometry and Compositional Changes in Immature Raniganj Shale under Heated Environment: Implications for Enhanced Gas Recovery. Energy & Fuels, 38(22), pp.22128-22145.
6. Nilankar, K., Singh, D., Singh, H.K. and Han, G., 2024. Characterization and behavior of Raniganj shale under a heated environment. Fuel, 366, p.131377.
1. 7.Jaiswal, H, and Singh, A. K., 2025. Coal as a non-conventional resource of Rare Earth Elements (REEs) and Trace Elements: Benefits and Impacts on Environment and Human Health - A Review, In Press, Results in Earth Sciences
7. Kishor, K., Srivastava, M.K., and Singh, A.K., 2025: Characterization of surface and structural properties of Permian coals from Sohagpur Coalfield, India: A comprehensive analysis. In Press, International Journal of Oil, Gas and Coal Technology

2. 9.Srivastava, M.K., Kishor, K., Singh, A.K., Soumyajit Mukherjee and Shivranjan Kumar Bharti, 2025: Tectonically deformed coal: Focus on microstructures & implications for basin evolution. Marine and Petroleum Geology, In Press, Vol. 172. https://doi.org/10.1016/j.marpetgeo.2024.107223
3. 10.Kishor, K., Srivastava, M.K. and Singh, A.K., 2024: Pore Characteristics and Gas Adsorption Properties of Permian Coals in Sohagpur Coalfield, India: A Comprehensive Multi-Analytical Study. Energy & Fuels, Vol. 39, pp.349−361, https://doi.org/10.1021/acs.energyfuels.4c04722
4. 11.Singh, A., Chaturvedi, K.R., Abdullah, M.M.S., Stefan, I., Singh, A.K., and Sharma, T., 2024: Polymeric Nanofluids of Oilfield Polymers for Subsurface Flow Applications: Synthesis, Interfacial, and Rheological Analysis. Colloids and Surfaces A: Physicochemical and Engineering Aspects, Volume 707, 20 February 2025, 135913. https://doi.org/10.1016/j.colsurfa.2024.135913
5. 12.Kumar, A., Mustapha, K. A., Singh, A.K., Haikimi, M.H., Kahal, A.Y., Nassem, W. and Hasnan, H.K., 2024. Evaluating the hydrocarbon generation potential of the Paleocene-Eocene carbonaceous rocks in the Barmer and Bikaner-Nagaur Basins, western Rajasthan, India. China Geology, Vol 7, pp.1-15
6. 13.Srivastava, M.K., Kishor, K. and Singh, A.K., 2024: A comprehensive petrochemical study of coals of Jaintia Hills: unveiling their industrial applicability and potential as hydrocarbon source rocks. International Journal of Coal Preparation and Utilization, pp. 1-15, https://doi.org/10.1080/19392699.2024.2353130
7. 14.Srivastava, M.K., Kishor, K., Nath, M. and Singh, A.K., 2024: Inorganic geochemical attributes of Jaintia Hills coals, India: Implications for paleo-depositional conditions. Kuwait Journal of Science, V.54, pp.1-11.
8. 15. Hakimi, M.H.; Kumar, A.; Alqubalee, A.M.; Singh, A.K.; Almobarky, M.; Rahim, A.; Alqudah, M.; Lashin, A.; Mustapha, K.A.; Naseem, W. M, 2024: Mineralogy and Geochemistry of the Paleocene–Eocene Palana Formation in Western Rajasthan, India: Insights for Sedimentary Paleoenvironmental Conditions and Volcanic Activity. Minerals, 14, 126, pp. 1-32
9. 16.Kumar, A., Singh, A.K. and Christanis, K., 2024: Paleodepositional environment and hydrocarbon generation potential of the Paleogene lignite in the Barmer Basin, Rajasthan, India. Journal of Asian Earth Sciences, V. 259 (105892), pp.1-32
10. 17.Chandra, A., Sarkar, P., Singh K.H., Singh, T.N. 2025. A comprehensive study on topology of pore systems of Lower Gondwana shale using pore-scale 2D micrographs. Journal of Earth System and Sciences. 134(57), 1-18.
11. 18.Brijesh Kumar; Ravi Kant; S. P. Maurya; G. Hema; Piyush Sarkar; K. H. Singh; S. K. Sharma. 2025 Reservoir characterization using simultaneous inversion of pre-stack seismic

data based on traditional conjugate gradient methods and particle swarm optimization: A comparative case study. Earth Science Informatics. 18(137), 1-14.

12. 19.S.P. Maurya; Nitin Verma; Ravi Kant; G. Hema; Raghav Singh; K.H. Singh; Piyush Sarkar. 2025 Seismic inversion based on principal component analysis and probabilistic neural network for prediction of porosity from post-stack seismic data. Earth Science Informatics. 18(1), 1-24.
13. 20.Shukla, A., Sahoo, S., & Sarkar, P., 2024. Assessment of micro-structure and flow entrapment in Indian Gondwana shale reservoir using digital rock analysis. Marine and Petroleum Geology, 169. https://doi.org/10.1016/j.marpetgeo.2024.107066
14. 21.Kant, R., Hema, G., Maurya, S.P., Singh, R., K. H., & Sarkar, P. (2024) Enhancing porosity prediction: integrating seismic inversion utilizing sparse layer reflectivity, and particle swarm optimization with radial basis function neural networks. Geophysical Prospecting. 73(1), 49–66. https://doi.org/10.1111/1365-2478.13651
15. 22.Kant, R., Kumar, B., Maurya, S.P., Hema, G., Singh, R., Singh, K. H., and Sarkar, P., 2024 Identification of the reservoir using seismic inversion based on particle swarm optimization method: A case study. Journal of Earth System and Sciences, 133:227. doi.org/10.1007/s12040-024-02436-7.
16. 23. Gautam, S., Kumar, S., Kumar, A., Rajak, V.K. and Guria, C., 2025. Development of functional polymer-based clay-free HPHT drilling fluid: Effect of molecular weight and its distribution on drilling fluid performance. Geoenergy Science and Engineering, 246, p.213616.
17. 24 . Choudhary, R., Singh, S., Kumar, S., Gautam, S. and Kumar, A., 2026. Performance evaluation of a zwitterionic surfactant for the emulsification of an Indian heavy crude oil for pipeline transportation. Fuel, 405, p.136547.
18. 25.Shahzar, Mohd, Sharma, Shivanjali, Saxena, Amit, and Satyajit Chowdhury. "Performance Assessment of Graphene Oxide Nanosheets for Enhancing Oilwell Cement Integrity Under High-Pressure High-Temperature Conditions." SPE J. 30 (2025): 1867–1883. doi: https://doi.org/10.2118/225412-PA
19. 26.Halari, Darshan et al. 2025. “Enhanced Oil Recovery Using Carbonated Polymeric Nanofluids: A New Age Approach to CO2 Utilization and Corrosion Mitigation.” Journal of Industrial and Engineering Chemistry. https://www.sciencedirect.com/science/article/pii/S1226086X25001261.
20. 27.Mohd Shahzar, Nayan Moni Kalita, Reza Azin, Shahriar Osfouri, Shivanjali Sharma, and Amit Saxena Energy & Fuels 2024 38 (16), 15182-15193, DOI: 10.1021/acs.energyfuels.4c02492

21. 28.Anirudh Bardhan, Saurabh Kumar, Surita Basu, Anurag Pandey, Himanshu Kesarwani, Amit Saxena, Jayati Sarkar, Shivanjali Sharma, and Shailesh Kumar, Energy & Fuels Article ASAP, DOI: 10.1021/acs.energyfuels.4c02548
22. 29.Pandey, Anurag et al. 2024. "Sustainable Potassium-Doped Graphene Oxide from Oak Fruit Agricultural Waste for a Synergistically Improved Nanofluid-Surfactant Slug for Enhancing Oil Recovery." Fuel 372(June): 132251. https://doi.org/10.1016/j.fuel.2024.132251.
23. 30.Khan, Fahad, Bardhan, Anirudh, Kumar, Praveen, Yadawa, Yogendra, Sharma, Shivanjali, Saxena, Amit, and Amit Ranjan. "Performance Assessment of Bismuth Ferrite Nanoparticles in Enhancing Oilwell Cement Properties: Implications for Sustainable Construction." SPE J. (2024;): doi: https://doi.org/10.2118/221469-PA
24. 31.Darshan Halari, Shivam Yadav, Himanshu Kesarwani, Amit Saxena, Shivanjali Sharma"Nanoparticle- and Surfactant-Stabilized Carbonated Water-Induced In Situ CO2 Foam: An Improved Oil Recovery Approach". 2024, Energy and Fuel, ACS. DOI: 10.1021/acs.energyfuels.3c04232.
25. 32.Anirudh Bardhan, Sushipra Vats, Deepak Kumar Prajapati, Darshan Halari, Shivanjali Sharma, Amit Saxena; "Utilization of mesoporous nano-silica as high-temperature water-based drilling fluids additive: Insights into the fluid loss reduction and shale stabilization potential", Geoenergy Science and Engineering, Volume 232, Part A, 2024, 212436. https://doi.org/10.1016/j.geoen.2023.212436.
26. 33.Waquar Kaleem, Kashan Ahmed Khan & Amit Saxena, "Statistical feature engineering using discrete wavelet transform: a tool for improving the prediction of compressional and shear sonic travel time logs", Petroleum Science and Technology, 2023. DOI: 10.1080/10916466.2023.2292781.
27. 34. Gautam, R., Hazra, A., Faujdar, P., Sen, S., Mishra, B. C., Sharma, T., & Kumar, S. (2024). Effect of Size-Controlled Nanofluid on Mechanical Properties, Microstructure, and Rheological Behavior of Cement Slurry for Oil Well Cementing. *ACS Omega*, *9*(48), 47739–47755. https://doi.org/10.1021/acsomega.4c07871
28. 35. Bardhan, A., Kumar, S., Basu, S., Pandey, A., Kesarwani, H., Saxena, A., Sarkar, J., Sharma, S., & Kumar, S. (2024). Mechanistic Performance of Modified Carbon Nanotubes Stabilized in Water-Based Drilling Fluids for High-Temperature Applications. *Energy & Fuels*, *38*(17), 16066–16078. https://doi.org/10.1021/acs.energyfuels.4c02548
29. 36. Abul Aas, A., Sinha, S. K., Yadav, K. K., & Argal, J. (2025). Shear wave velocity-based liquefaction geohazard study of alluvial deposit in the south of the foothills of tectonically active Himalayan region. Journal of Applied Geophysics, 241, 105818. https://doi.org/10.1016/j.jappgeo.2025.105818

30. 37. Bardhan, A., Singh, A., Nishanta, H., Sharma, S., Choubey, A. K., & Kumar, S. (2024). Biogenic Copper Oxide Nanoparticles for Improved Lubricity and Filtration Control in Water-Based Drilling Mud. Energy & Fuels, 38(10), 8564–8578. https://doi.org/10.1021/acs.energyfuels.4c00635

रेफरीड नेशनल जर्नल

1. Vishal, A., Jha, A., & Prasad, S. K. (2024, October). Machine Learning Algorithms and Statistical Methods for Investigating Hydrate Promoters for CO2 Sequestration in Marine Hydrate Reservoirs. In ISOPE Pacific/Asia Offshore Mechanics Symposium (pp. ISOPE-P). ISOPE.

Proceedings of International Conferences

1. Singh, D., Kumar, N., Singh, H.K. (2024). Influence of Sample Geometry and Foliation Plane on Axial Point Load Testing of Anisotropic Rock. International Geomechanics Conference on the Role of Geomechanics for Sustainability and Energy Efficiency. November 8-20, Kuala Lumpur, Malaysia.
2. Singh, D., Singh, H.K. (2024). Physico-mechanical Characterization of Precambrian Granite: An Implication to HDR Geothermal Reservoir. International Conference on " Earth : From Archaean to Proterozoic " (ICEAP - 2024), December 19-22, Udaipur, Rajasthan, India.
3. Singh, D., Singh, H.K. (2024). Impact of Combustion on the Multiscale Structure of Raniganj shale: An implication in Enhanced Gas Recovery. International Conference on Petroleum, Hydrogen and Decarbonisation (ICPHD-2024) Sustainability through energy transition, December 11-14, Dhanbad, Jharkhand, India
4. Singh, D., Singh, H.K., (2024).Thermal Effects on Pore Attributes and Surface Morphology of Shale. International Conference on Transforming Upstream, September 30 to October 1, Amethi, U.P., India.
2. 5.Saroj, A. Muttalib, and P. Sarkar, 2024. Predicting Elastic Properties of Reservoir Rocks: Implications for CO_2 Sequestration and Gas Hydrate Extraction in the Krishna-Godavari Basin, India. In: International Conference on Transforming Upstream: Breakthrough Technologies and Sustainability (ICTU-2024) 30th Sep and 1st Oct 2024, Organized by Department of Petroleum Engineering and Geoengineering, RGIPT Jais, Amethi.
3. 6.Ayush Chandra, Piyush Sarkar, Akash Chandra, 2024 Micro-fracture Characterization and its connectivity analysis using high-resolution images of Indian Gondwana Shale: Unveiling Unconventional Reservoir Complexity. In 6th South Asian Geosciences Conference and Exhibition, organized by the Association of Petroleum Geologists (APG) GeoIndia-2024, 15-17 Nov 2024, Greater Noida.

8. Bardhan, A., Halari, D., Pandey, A., Saxena, A., Sharma, S., Kumar, S. (2025). Exploring the Role of Vinyl Copolymers in Next-Generation Water-Based Drilling Fluids for Geothermal Wells. In: Singh, A., Tiwari, P., Kumar, S., Kakati, A. (eds) Proceedings of 1st International Conference on Petroleum, Hydrogen and Decarbonization. ICPHD 2023. Lecture Notes on Multidisciplinary Industrial Engineering. Springer, Singapore. https://doi.org/10.1007/978-981-96-3667-9_10
9. Halari, D., Bardhan, A., Pandey, A., Sharma, S., Saxena, A. (2025). High-Performance Carbonated Water Injection Using Novel Tetrapolymer and ZnO Nanoparticles: A Sustainable Approach for Improved Oil Recovery and Decarbonization. In: Singh, A., Tiwari, P., Kumar, S., Kakati, A. (eds) Proceedings of 1st International Conference on Petroleum, Hydrogen and Decarbonization. ICPHD 2023. Lecture Notes on Multidisciplinary Industrial Engineering. Springer, Singapore. https://doi.org/10.1007/978-981-96-3667-9_1
10. Argal, J., & Sinha, S. K. (2024). Assessment of hydrocarbon prospects in pre-Tertiary sequences within the Ganga Basin, India. 85th EAGE Annual Conference & Exhibition (pp. 1–5). Oslo, Norway. https://doi.org/10.3997/2214-4609.2024101508

Proceedings of National Conferences

1. Singh D., Singh, H.K. (2025). Pore Structure Evolution in Lesser Himalayan Krol Shale under Combustion: Implications for Untapped Shale Gas Recovery. 17th July, Delhi.
2. Singh, H.K. (2024). Application of 3D Scanning in Reconstructing Surface Morphology of Rock Discontinuities onto the saw-cut block using 3D Carving Techniques. Geosciences for Sustainable World (GSW-24), March 6-7, Varanasi, India.
3. Singh D., Kumar, N, Singh, H.K. (2024) Variations in Physico-mechanical Properties of Jodhpur Limestone under Simulated Acid Rain Condition. Geosciences for Sustainable World (GSW-24), March 6-7, Varanasi, India (Full Paper Accepted for book chapter).
1. 4 Kumar, N, Singh, D., Singh, H.K. (2024). A comparative study of Pore attributes between Gondwana Shale and Lesser Himalayan Shale. Geosciences for Sustainable World (GSW-24), March 6-7, Varanasi, India.
2. 5.Kishor, K., Srivastava, M.K., and Singh, A.K. 2024: Genesis and characteristics of the cleat system in coal and its impact on coal porosity and permeability at the National Conference on Geosciences for a Sustainable World 2024 at the Department of Geophysics, Banaras Hindu University, Varanasi, India (6th and 7th March 2024), p.147
3. 6.Ismail, M.H., Srivastava, M.K., Kishor, K., and Singh, A.K. 2024: A comprehensive study on the different ranks of Indian coals to test the stability of different formulas given to predict the gross calorific value (GCV) in the National Conference on Geosciences for a Sustainable

World 2024 at the Department of Geophysics, Banaras Hindu University, Varanasi, India (6th and 7th March 2024), pp.111-112

4. 7.Jaiswal, H. and Singh, A.K. 2024: Status of REEs in the Indian Scenario in National conference on Geosciences for Sustainable World -2024 at Department of Geophysics, Banaras Hindu University, Varanasi, India (6th and 7th March 2024) p.111
5. 8.Kishor, K., Srivastava, M.K., Tripathi, G.P. and Singh, A.K. 2024: Hydrocarbon Potential of Sohagpur Coal Seams: Unlocking Sustainable Energy Prospects through Pore and Fracture Characterization in 8th National Geo-Research Scholars Meet at Shri Mata Vaishno Devi University, Katra organized by Wadia Institute of Himalayan Geology, Dehradun-India (22-25 November 2024).
6. 9.Kishor, K., Srivastava, M.K., Tripathi, G.P. and Singh, A.K. 2024: Multi-analytical approach to investigate paleoclimate and paleo-depositional conditions of coal samples from Sharda coal mine of Sohagpur coalfield, India in 40th Convention of Indian Association of Sedimentologists & National Conference on An Odyssey of Sedimentology from Precambrian to Anthropocene: Significant Contributions in Environmental Climatic and Energy Research organized by Birbal Sahni Institute of Palaeosciences, Lucknow (11-13th December 2024).
7. 10.Kumar, A; Singh, A.K. and Singh, P.K., 2025: Organic Petrology as a tool for source rock characterization and paleoenvironment indicator during peat accumulation. National Conference on Innovations in Coal & Mineral Characterization for Sustainable Resource Utilization (ICMCS-2025), 30-31 January 2025, at Fairfield by Marriott, Newtown, Kolkata, India
8. 11.Ayush Chandra, Piyush Sarkar, Swarandeep Sahoo, Akash Chandra, T. N. Singh, K. H. Singh, 2024. Fractal and pore characteristics of lower Indian Gondwana shale. National Conference on Emerging Trends in Earth Sciences: Geohazard and Resource Management (ETES-2024) 27th-29th Sep 2024, Organized by Department of Applied Geophysics, IIT (ISM) Dhanbad.
9. 12.Ayush Chandra, Piyush Sarkar, Akash Chandra, 2024 Quantification of Microfractures Indian Gondwana Shale: An Image Processing Approach. In Advances in Earth System Sciences with special reference to weather and climate, 3-5 Dec 2024, 61st Annual Convention of Indian Geophysical Union (IGU), Banaras Hindu University.
10. 13. Sinha, S.K. and Argal J. (2024). Breakout Inversion for Quantifying Horizontal In-Situ Stress Fields in Assam-Arakan Basin, 6th South Asian Geosciences Conference and Exhibition, 15-17 November 2024
11. 14.Sinha, S.K. and Aas, A. (2024). A novel field technique for constructing 2D shear wave velocity profile for subsurface by utilizing MASW method, Indian Geophysical Union Conference, BHU, 3-5 December 2024

सम्मानित आगंतुक

क्रम संख्या	आगंतुक का नाम एवं पदनाम	यात्रा की तिथि	यात्रा का उद्देश्य
1	कौस्तव नाग, रेगुराम कृष्णा, सुभायन दासगुप्ता	21st December 2024	Govt policies & initiatives in the Indian E&P sector
2	श्री शुभम गोस्वामी, एसएलबी में वरिष्ठ जलाशय इंजीनियरिंग	February 17, 2025	Industry Academia Interaction
3	डॉ.नीरज माथुर	September 15, 2023	Orientation Program
4	श्री. विनोद शेषन, संयुक्त सचिव, एमओपीएनजी	30th September 2024	ICTU 2024 Inauguration
5	सुश्री सुषमा रावत, निदेशक (अन्वेषण), ओएनजीसी	30th September 2024	ICTU 2024 Inauguration
6	श्री सचिव कुमार, एडीजी, डीजीएच	30th September - 1st October 2024	ICTU 2024
7	श्री देब अधिकारी, निदेशक (अन्वेषण एवं उत्पादन), एफआईपीआई	30th September - 1st October 2024	ICTU 2024
8	श्री आदित्य कुमार, निदेशक - पेट्रोलियम इंजीनियरिंग, टेलेस्टो एनर्जी	30th September - 1st October 2024	ICTU 2024
9	प्रोफेसर विक्रम विशाल, आईआईटी बॉम्बे	30th September - 1st October 2024	ICTU 2024
10	श्री शीतल खोत, सीएमडी, एसएनएफ फ्लॉपम इंडिया प्राइवेट। लिमिटेड	30th September - 1st October 2024	ICTU 2024
11	श्री हिमांशु कुमार जैन, कंट्री ऑपरेशन मैनेजर, हॉलिबर्टन इंडिया	30th September - 1st October 2024	ICTU 2024
12	श्री विनय भारद्वाज, सीईओ, रेज़लाइटिक्स	30th September - 1st October 2024	ICTU 2024

विभाग/केंद्र/केंद्र में भारतीय संकाय का दौरा

क्र.सं.	संकाय सदस्य का नाम	दौरे का उद्देश्य	तिथि और स्थान
1	डॉ. पीयूष सरकार	External Examiner for Viva	22-05-2025, Department of Geophysics, Banaras Hindu University
2	डॉ. पीयूष सरकार	Examination related matter	28th to 30th May 2025, UPSC office, New Delhi
3	डॉ. पीयूष सरकार	Examination related matter	19th Feb 2025 to 20th Feb 2025, UPSC office, New Delhi

विभाग/केंद्र/केंद्र में विदेशी संकाय का दौरा

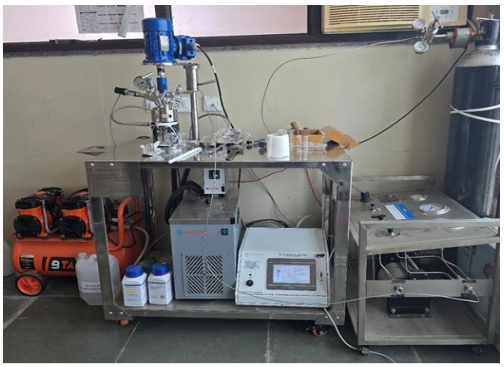
क्र.सं.	संकाय सदस्य का नाम	दौरे का उद्देश्य	तिथि और स्थान
1	डॉ. फारूक अल जाहवारी, सुल्तान कबूस विश्वविद्यालय	Delivered Lecture in ICTU 2024	30th September - 1st October 2024, RGIPT, Jais

अन्य सूचनायें-

- 4 students did their summer internship through RIPE program at RGIPT

आयोजित वेबनार-

- Role of AI/ML in the Energy Sector – Easing Exploration, Enhancing Production & Driving Sustainability - Mr. Bhaskar Chandra Chawda, Machine Learning expert, Lead Software Developer, ExxonMobil, 22 June 2025 (AAPG Student Chapter)
- Monitoring, Measurement, and Verification in CCS - Dr. Debasis Priyadarshan Das, CCS Geologist Study Lead at PETRONAS, 19 January 2025 (AAPG Student Chapter)
- Career Planning in Oil &Gas - Mr. Praveen Tiwari, August 31, 2024
- Geosoftware renewed its academic license for the year.
- Prof. Satish Kumar Sinha has been nominated for the National Gas Hydrate Program (NGHP)
- Five students participated in the Imperial Barrel Award (2025) competition
  - अभय सिंह
  - लोपामुद्रा शर्मा
  - किशन राज
  - मो. अरहान अहमद
  - प्राची पांडे
- PETEX License was renewed for the year.
- Industrial visit and Field trip in Dehradun from 4th to 10th April, 2025
- Mansi Sisodiya was selected for SEG Chevron SLS program 2025
- AAPG Student Chapter organized Geosprint on February 6, 2025
- KINGDOM Academic license renewal – December 2024
- Seven students from Dibrugarh University Institute of Engineering and Technology, (DUIET) completed summer internship in our department in the year 2024.





अध्याय-7

इलेक्ट्रिकल और इलेक्ट्रॉनिक्स इंजीनियरिंग विभाग

स्थापना का वर्ष: 2020

विभाग/केंद्र के प्रमुख/समन्वयक: डॉ. उमाकांत धर द्विवेदी प्रभावी 11 जून, 2020

इलेक्ट्रिकल और इलेक्ट्रॉनिक्स इंजीनियरिंग विभाग इलेक्ट्रॉनिक्स इंजीनियरिंग और इलेक्ट्रिकल इंजीनियरिंग (ईवी में प्रमुख) में स्नातक उपाधि (बी.टेक) प्रदान करता है। स्नातक अध्ययन के लिए, इलेक्ट्रिकल के विभिन्न क्षेत्रों के व्यापक ज्ञान के लिए माइक्रोइलेक्ट्रॉनिक्स, डिजिटल तकनीक और इंस्ट्रुमेंटेशन, संचार सिस्टम इंजीनियरिंग, वीएलएसआई, इलेक्ट्रिकल मशीनें, पावर इलेक्ट्रॉनिक्स, इलेक्ट्रिक ड्राइव, इलेक्ट्रिक वाहन, नियंत्रण प्रणाली और पावर सिस्टम से संबंधित विषयों को समायोजित किया जाता है। और इलेक्ट्रॉनिक्स. पाठ्यक्रम में पेश किए गए विषयों को इस तरह से डिज़ाइन किया गया है कि वे मौलिक अवधारणाओं के साथ-साथ औद्योगिक अनुप्रयोगों के लिए समर्पित लगभग सभी महत्वपूर्ण विषयों को कवर करते हैं। विभाग इलेक्ट्रिकल और इलेक्ट्रॉनिक्स इंजीनियरिंग के उभरते क्षेत्रों में डॉक्टरेट कार्यक्रम भी प्रदान करता है। इसके साथ ही, छात्रों को उद्योग के लिए तैयार करने के लिए एंबेडेड सिस्टम, एआई/एमएल और सिग्नल प्रोसेसिंग एप्लिकेशन इंटरनेट ऑफ थिंग्स (आईओटी), रिन्यूएबल एनर्जी इंटीग्रेशन और एडवांस्ड मोटर कंट्रोल पर उन्नत पाठ्यक्रम भी पाठ्यक्रम में शामिल किए गए हैं। विभाग के पास अनुभवी और योग्य संकाय हैं। संकाय सदस्य अनुसंधान गतिविधियों में सक्रिय रूप से शामिल हैं। विभाग के संकाय विशेषज्ञता के प्रमुख क्षेत्रों में पावर इलेक्ट्रॉनिक्स, इलेक्ट्रिकल ड्राइव, नवीकरणीय ऊर्जा, संचार, एंटीना, माइक्रोवेव, माइक्रोइलेक्ट्रॉनिक्स, एमईएमएस, ऑप्टो-इलेक्ट्रॉनिक डिवाइस मशीन लर्निंग और सिग्नल प्रोसेसिंग एप्लिकेशन शामिल हैं, लेकिन इन्हीं तक सीमित नहीं हैं। विभाग उद्योग-उन्मुख अनुप्रयोगों के लिए अंत:विषय अनुसंधान को सक्रिय रूप से शामिल करता है और प्रोत्साहित करता है।

अनुसंधान के प्रमुख क्षेत्र

1. इलेक्ट्रिक वाहन प्रौद्योगिकी 2. एआई, एमएल और सिग्नल प्रोसेसिंग 3. हरित ऊर्जा और स्मार्ट ग्रिड 4. संचार और IoT	5. पावर इलेक्ट्रॉनिक्स और उन्नत मोटर ड्राइव नियंत्रण 6. माइक्रोइलेक्ट्रॉनिक्स आईसी डिजाइन 7. ईवी अनुप्रयोगों के लिए बैटरी प्रबंधन और चार्जर डिजाइन

आधारभूत संरचना

क्र .सं.	विवरण	संख्या
1.	कक्षाओं की संख्या	1
2.	व्याख्यान कक्षों की संख्या	1
3.	प्रयोगशाला की संख्या	9
4.	विभाग में छात्रों के लिए उपलब्ध कंप्यूटरों की संख्या	53

संचालित शैक्षणिक कार्यक्रम

क्रम संख्या	पाठ्यक्रम कोड	पाठ्यक्रम शीर्षक	पाठ्यक्रम क्रेडिट
1	EEV333	Digital Control	9
2	EEV331	Sensors, Actuators and Control for Electric Vehicles	9

प्रवेशरत छात्र संख्या

क्रम संख्या	कार्यक्रम	I वर्ष	वर्ष II	वर्ष III	वर्ष IV वर्ष
1.	बी.टेक.	74	71	77	19
2.	पीएचडी (संस्थान फेलोशिप के अंतर्गत)	01	02	01	5

उन छात्रों/विद्वानों के नाम जिन्होंने विदेश में या भारत में सम्मेलनों/कार्यशालाओं/सेमिनारों और संगोष्ठियों में भाग लिया

क्रमांक	छात्र का नाम	रोल नंबर	सम्मेलन/संगोष्ठी/संगोष्ठी/कार्य शाला	दिनांक एवं स्थान	वित्तीय सहायता
भारत					
1.	मो. हन्नान	23EE0004	IEEE UPCON Lucknow	December & Lucknow	RSG
2.	मो. हन्नान	23EE0004	IEEE ICCES Coimbatore	December & Coimbatore	Self
3.	ब्रज किशोर झा	23EE0001	IEEE CVMI IIIT Allahabad	October & Prayagraj	RSG
4.	ब्रज किशोर झा	23EE0001	EAI BodyNets IIT BHU	December & IIT BHU	RSG
5.	स्तुति श्रीवास	22EE0103	IEEE UPCON Lucknow	November & Lucknow	RSG
6.	आकाश चौरसिया	22EE0001	INUP, IIT Kharagpur	September & IIT Kharagpur	IIT Kharagpur
7.	आखा चौरसिया	22EE0001	ic-ONMAT-2025, KOCHI	February & Kochi	RSG
8.	शिवांगी श्रीवास्तव	21EE0104	INDISCON 2024, Punjab University Chandigarh	August & Punjab	RSG
9.	तान्या वर्ना	21EE0003	NCC	March 2025 and Delhi	RSG
10.	तान्या वर्मा	21EE0003	INDICON	December IIT Kharagpur	RSG
11.	तान्या वर्मा	21EE0003	EAI BodyNets IIT BHU	December & IIT BHU	RSG

संस्थान के बाहर पुरस्कार एवं पुरस्कार प्राप्त करने वाले विद्यार्थियों/विद्वानों के नाम

क्रमांक	छात्र का नाम	रोल नंबर	पुरस्कार का नाम	दिनांक एवं स्थान	द्वारा पुरस्कार प्रदान किया गया
1	ब्रज किशोर झा	23EE0001	Best Paper Award	December & IIT BHU	EAI Bodynets IIT BHU
2	IEEEE छात्र शाखा		Best Emerging Student Branch Award	12.01.2025 & Courtyard by Marriott Agra	IEEE UP selection's annual general meeting 2025
3	IEEEE छात्र शाखा		1st Position in activity-based incentive award	12.01.2025 & Courtyard by Marriott Agra	IEEE UP selection's annual general meeting 2025

संकाय और उनकी विशेषज्ञता के क्षेत्र:

क्रम संख्या	नाम, योग्यता, कर्मचारी संख्या	पीएचडी डिग्री प्रदान करने की तिथि	विशेषज्ञता के प्रमुख क्षेत्र (अधिकतम 3 क्षेत्र)
सह आचार्य			
1	डॉ. उमाकांत धर द्विवेदी	2009 from IIT Kanpur	Renewable Energy Integration. Power Electronics & Drives. AI/ML & Signal Processing Application in Automation and Energy Sector
सहायक आचार्य			
1	डॉ. शिवांशु श्रीवास्तव	2017 from IIT Guwahati	Cognitive Radio, Wireless Systems Communication Systems
2	डॉ. अमरीश दुबे	2018 from IIT Kanpur	Flexible Electronics/Green Energy
3	डॉ. सजल अग्रवाल	2019 from MNIT, Allahabad	Nano fabrication/optical sensor/artificial materials/IoT
4	डॉ अभिषेक कुमार सिंह	2020 from IIT (BHU), Varanasi	Microelectronics & VLSI Design
5	डॉ अंकुर पांडे	2022 from IIT Patna	IoT, Wireless Communication, Smart

			Healthcare
6	डॉ विजय कुमार सिंह	2020 from Kyushu Institute of Technology, Japan	Power Electronics, Power converter control, Control of EV charger
7	डॉ. सप्तर्षि घोष	2021 from IIT Delhi	Communications Security/ Smart Grid
8	डॉ.सौरभ पांडे	2018 from IIT Guwahati	System Identification, Control Theory, Electric Vehicle Applications
9	डॉ. भीमैया चिकोंद्रा	2021 from IIT Patna	Power Electronics and Drives, Multiphase Machines, EV control

तकनीकी एवं गैर-शैक्षणिक कार्मिक :

क्रम संख्या	नाम	पद	विभाग में नियुक्ति तिथि
1.	श्री राजीव नयन पांडे	तकनीशियन (ग्रेड I)	अप्रैल 2022
2.	श्री रत्नेश चन्द्र गुप्ता	तकनीशियन (ग्रेड I)	जून 2022
3.	श्री ऋषभ मौर्य	तकनीकी अधीक्षक (ग्रेड I)	अगस्त 2022

संकाय सदस्यों द्वारा आयोजित लघु अवधि के पाठ्यक्रम/कार्यशालाएं/सेमिनार/संगोष्ठी/सम्मेलन:

क्रम संख्या	समन्वयक	विषय	अवधि
1	डॉ.सौरभ पांडे	स्वच्छता पखवाड़ा - उत्तर प्रदेश के जायस तहसील में स्वच्छता अभियान	मार्च 2025
2	डॉ.सौरभ पांडे	स्वच्छ एवं सतत ग्रह के लिए तकनीकी विकल्पों पर एक दिवसीय राष्ट्रीय संगोष्ठी, आरजीआईपीटी, जायस, उत्तर प्रदेश	मार्च 2025

शैक्षणिक संस्थानों और सार्वजनिक क्षेत्र के उपक्रमों में संकाय सदस्यों द्वारा भाग लिए जाने वाले अल्पकालिक पाठ्यक्रम/कार्यशालाएं/सेमिनार/संगोष्ठी/सम्मेलन/प्रशिक्षण कार्यक्रम:

क्रम संख्या	संकाय सदस्य का नाम	शीर्षक	अवधि, स्थान
सेमिनार/संगोष्ठी/सम्मेलन			
1	डॉ विजय कुमार सिंह	Emerging Technologies for Smart Grids and Green Energy Integration	25th November to 6th December 2024
2	डॉ. भीमैया चिकोंद्रा	Emerging Technologies for Smart Grids and Green Energy Integration	25th November to 6th December 2024
3	डॉ. सजल अग्रवाल	Deep Learning with Generative Artificial Intelligence for Computer Vision	8th to 19th November 2024

4	डॉ अंकुर पांडे	Bharat 6G Workshop, 19th EAI BODYNETS, IIT BHU	15-16th December, 2024
5	डॉ अंकुर पांडे	3rd IEEE International Conference on Computer Vision and Machine Intelligence (IEEE CVMI), IIIT Allahabad	19-20 October, 2024
6	डॉ.सौरभ पांडे	10th IEEE Indian Control Conference (ICC), IISER Bhopal, Madhya Pradesh	09-11 December 2024
7	डॉ.सौरभ पांडे	11th IEEE International Conference on Power Electronics Drives and Energy Systems (PEDES), NIT Surathkal, Karnataka	18-22 December 2024
8	डॉ.सौरभ पांडे	One week online STC & FDP on Advances in Control, Estimation & Optimization for Cyber-Physical Systems	03-07 January 2025
9	डॉ. भीमैया चिकोंद्रा	41st IEEE INTELEC Conference at JW Mariot, Bengaluru, India	August 4-7, 2024
10	डॉ. शिवांशु श्रीवास्तव	13th ICCCAS Xiamen China	May 10th - 12th 2024
11	डॉ. शिवांशु श्रीवास्तव	IEEE iSES IIIT Delhi	Dec 16th-18th 2024
बैठक			
1	डॉ अंकुर पांडे	IEEE Signal Processing Society, Executive Member Meeting	19-20 October, 2024
2	डॉ अंकुर पांडे	HAL Korwa for industrial solutions	December, 2024
3	डॉ अंकुर पांडे	Infosys Bangalore.	18th April, 2024

अन्य संस्थानों में संकाय सदस्यों द्वारा दिए गए विशेष व्याख्यान

क्रम संख्या	संकाय सदस्य का नाम	व्याख्यान विषय	संस्थान	दिनांक
1	डॉ विजय कुमार सिंह	Design of Power Converters Based on Wide Band Gap (WBG) Devices	NIT Silchar	16th September 2024
2	डॉ विजय कुमार सिंह	Next-Generation Power Electronics for Electric Vehicles	NIT Patna	27th January 2025
3	डॉ. सजल अग्रवाल	Importance of sensor in IoT network with case studies of industries	IIIT Una	25th April 2024
4	डॉ अंकुर पांडे	Invited **Industry training lecture** on **AI for Refineries** in IOCL Training program at RGIPT. 18th March 2025	IOCL	18th March 2025

5	डॉ अंकुर पांडे	Moderated a Panel discussion with esteemed panel of Bharat 6G Alliance at the international conference EAI BODYNETS 2024	IIT BHU	16th December, 2024
6	डॉ अंकुर पांडे	Invited talk at Jawahar Navoday Vidyalaya Ayodhya for class 12th students on "Career after 12th, scope of Engineering & technology". 10th July, 2024	JNV Ayodhya	10th July, 2024
7	डॉ अंकुर पांडे	Invited Talk at DSIR Sponsored Workshop on “Refining Intelligence: Exploring AI/ML in Refinery Operations - Foundations, Trends, Challenges, and Prospects” RGIPT, 2nd April, 2024	DSIR, GoI	2nd April, 2024
8.	डॉ अमरीश दुबे	Technical invited lecture on “An Efficient, Flexible and Foldable Electrochromic display screen”	Institution of Engineers (India)	28 May 2025
9.	डॉ. भीमैया चिकोंद्रा	Invited talk on " Multiphase Motor Drives and their Control for EV Application", in an IEEE student branch webinar at NIT Manipur	NIT Manipur	June 29, 2024

विदेश दौरे पर गए संकाय सदस्य

क्रम संख्या	संकाय सदस्य का नाम	देश जिसकी यात्रा की गयी	भारत छोड़ने की तिथि	भारत वापसी की तिथि	यात्रा का उद्देश्य	प्रायोजक
1	डॉ. शिवांशु श्रीवास्तव	China	10th May 2024	14th May 2024	Attend ICCCAS Xiamen	SERB

पुरस्कार एवं सम्मान

क्रम संख्या	संकाय सदस्य का नाम	पुरस्कार का विवरण
1	डॉ. भीमैया चिकोंद्रा	World's top 2% of scientists (Stanford University)
2	डॉ. भीमैया चिकोंद्रा	World's top 0.5% of researcher (ScholarGPS,USA)
3	डॉ. भीमैया चिकोंद्रा	The Best Paper Award for the paper entitled "A Data Driven Energy Efficient Control of Induction Motor Drive with Vector Control"in the PEDES 2024 at NITK Surathkal.

4	डॉ अंकुर पांडे	The Best Paper Award (Oral Presentation Category)]: "A Low Overhead CNN-Based Approach for Sleep Posture Recognition with Device-Free Monitoring using UWB Radar," at 19th BODYNETS 24, IIT BHU, Varanasi.
5	डॉ अंकुर पांडे	Excellence in Academics Award: Awarded by ABES Engineering College for the duration 2010-2024
6	डॉ अंकुर पांडे	Executive Member, IEEE Signal Processing Society, Uttar Pradesh Section 2025
7	डॉ अंकुर पांडे	Executive Member Industrial Connections, IEEE Communication Society, Uttar Pradesh 2025
8	डॉ.सौरभ पांडे	Member of IEEE UP Section Control System Chapter 2025

शैक्षणिक और व्यावसायिक समाजों की फैलोशिप

क्रम संख्या	संकाय सदस्य का नाम	फैलोशिप का विवरण
1	डॉ अंकुर पांडे	Member, IEEE
2	डॉ. भीमैया चिकोंद्रा	Member, IEEE
3	डॉ.सौरभ पांडे	Member, IEEE
4	डॉ. यू डी द्विवेदी	Member, IEEE

संकाय सदस्यों द्वारा लिखित/सह-लेखक पुस्तकें, मोनोग्राफ:

क्रम संख्या	लेखक/ सह-लेखक का नाम	शीर्षक	प्रकाशक
1	डॉ. गार्गी श्रीवास्तव और डॉ. सजल अग्रवाल	Deep Learning Enabled Optical Sensors	CRC Press (Book Chapter)
2	डॉ. शिवांशु श्रीवास्तव	Cognitive Radios: Security Threats and Defense Mechanisms	Eliva Press
3.	डॉ. शिवांशु श्रीवास्तव	AI for Communication Engineering	Eliva Publishers

जर्नल के संपादक सदस्य

क्रम संख्या	लेखक/ सह-लेखक का नाम	पद (संपादक / सदस्य)	जर्नल का नाम
1	डॉ विजय कुमार सिंह	अतिथि संपादक	Electronics (MDPI)

नई सुविधाएं जोड़ी गईं

क्रम संख्या	विवरण (आधारभूत संरचना, यंत्र, इत्यादि)	मूल्य (लाख रु. में)
1	Digital Storage Oscilloscope 4-Channel, 2.5GS/s 16 Nos.	4335840.00

पेटेंट दाखिल/प्रकाशित/प्रदत्त

क्रम संख्या	संकाय सदस्य का नाम	पेटेंट का शीर्षक
1	डॉ अंकुर पांडे	System for Geospatial Navigation for Smart Parking and Dustbin Management free of GPS, to Centronics Healing System Pvt. Ltd.

प्रायोजित अनुसंधान परियोजनाएँ

क्रम संख्या	शीर्षक	अवधि	प्रायोजक संस्थान	धनराशि (लाख रु में)	समन्वयक
1	Designing and Realization of D-shaped PCF-SPR Sensor for Blood Cancer Detection and Development of Novel Machine Learning Methods for Early Prediction	2024-26	CST UP	8.5	डॉ. सजल अग्रवाल
2	Development of IPR Cell for the institute sponsored by UPCST	2024-25	Council of Science and Technology, Uttar Pradesh	1	डॉ अंकुर पांडे
3	Real-Time AI-Driven Critical Infrastructure Identification for Industrial Cyber Physical System	2024-2026	CST UP	7.72 Lakhs	डॉ सप्तर्षि घोष

औद्योगिक परामर्श परियोजनाएँ

क्रम संख्या	संकाय सदस्य का नाम	शीर्षक	उद्योग	धनराशि
1	डॉ सप्तर्षि घोष	Modeling, Optimization, and Verification of a Cavity-Backed Microstrip Patch Array Antenna for Advanced Communication and Radar Systems	Numile Solutions Pvt. Ltd.	2.36 Lakhs

रेफरीड अंतर्राष्ट्रीय पत्रिकाएँ

1. Shivangi Srivastava, Sajal Agarwal “Potential of Nanomaterials in FET-based Breath Sensing: A Comprehensive Review & Future Directions,” Micro and Nanostructures, Elsevier, Vol. 190, 207830, 2024.
2. Sajal Agarwal, Rahul Raparia, Vinit Kumar, Rupam Srivastava, Yogendra Kumar Prajapati “Analytical Study of SPR Sensor with Black Phosphorus and Tungsten Diselenide Heterostructure for Milk Adulteration Detection,” Plasmonics, Elsevier, 2024, https://doi.org/10.1007/s11468-024-02496-x
3. Anmol Garg, Sajal Agarwal, Deepak Punetha, “Polarization and Strain in Piezoelectric Nanomaterials: Advancing Sensing Applications in Biomedical Technology,” IEEE Open Journal of Nanotechnology, 2024, 1-9, 10.1109/OJNANO.2024.3488787.
4. Rajeev Kumar, Sajal Agarwal, Narendra Pal, Sarika Pal, Yogendra Kumar Prajapati, “Platinum diselenide (PtSe2) Mediated Heterostructure Based SPR Sensor for the Detection of Formalin: A Theoretical Analysis,” Physica Scripta, 100(1), 015546, 2025, 10.1088/1402-4896/ad9e46.

5. M. Badoni, A. Singh, R. N. Tripathi, R. Kumar, and V. K. Singh, "Fractional Order Pole Fixed Second Order Generalized Integrator Based Control for Grid Connected Solar Photovoltaic System," IET Power Electronics, Early View, 2024.
6. S. Shrivas and A. Dubey, Prediction of specific capacitance of activated carbon electrode for energy storage device by machine learning based approach, Journal of Energy Storage, Volume 121, 2025, 116632, https://doi.org/10.1016/j.est.2025.116632.
7. M. Gusain, R. Nagarajan, A. Dubey, S. K. Singh, and M. Das, Facile Fabrication of Polyaniline-Based Composites with Stoichiometric and Nonstoichiometric Copper Sulfides and Their Comparative Electrochemical Performances, ACS Omega 2025 *10* (25), 26320-26328. DOI: 10.1021/acsomega.4c08045
8. R. Pandey, A. Dubey, G. Krishna Prasad et.al., Physico-Chemical Characterization of Lignocellulosic Seed Microfibers. *Journal of Natural Fibers*, *21*(1), 2024. https://doi.org/10.1080/15440478.2024.2360493.
9. T. Verma, A. Raza, S. Shrivastava, B. Chen, U.D. Dwivedi and A. Dubey, Intelligent resource allocation in hybrid RF/LiFi networks via deep deterministic policy gradient based DRL mechanism, AEU - International Journal of Electronics and Communications, Volume 187, 2024, 155499. https://doi.org/10.1016/j.aeue.2024.155499.
10. R. Pandey, A. Dubey, G. P Mishra, A. Ahuja, N. Kambo, S. Joshi, M. K. Sinha, R. Dubey and S. Shrivas, Physica Scripta, Volume 99, Number 6, 5005, 2024. DOI 10.1088/1402-4896/ad4016
11. S. Pandey, Sampled Wiener Time Delay System Identification, IEEE Transactions on Circuits and Systems II:Express Briefs (IEEE), vol. 72, pp. 573-577, 2025. DOI: 10.1109/TCSII.2025.3538015.
12. S. Pandey and S. Majhi, Frequency Domain Based Non-minimum Phase System Identification, in IFAC Proceedings Volumes, pp. 1-6, 2025.
13. S. Sharma, S. Ghosh, M. R. Bhatnagar and B. K. Panigrahi, "Power Efficient Handoff Management in Hybrid V2X Communication: Game-Theoretic Approach to Resource Allocation With Load Reduction," in *IEEE Transactions on Mobile Computing*, vol. 23, no. 12, pp. 14638-14655, Dec. 2024.
14. S. Ghosh and C. Konstantinou, "A Bi-Level Differential Game-Based Load Frequency Control With Cyber-Physical Security," in *IEEE Transactions on Smart Grid*, vol. 15, no. 5, pp. 5151-5168, Sept. 2024
15. Chaturvedi, M., Mall, R. K., Singh, S., Chaubey, P. K., & Pandey, A. (2024). Statistical downscaling of maximum temperature under CMIP6 global climate models and evaluation of heat wave events using deep learning methods for Indo-Gangetic Plain. *International Journal of Climatology*, 44(3), 953–972.64)
16. B. K. Jha, S. A. Khowaja, K. Dev and A. Pandey, "Safeguarding Medical AI: Insights and Addressing Adversarial Threats in Consumer Electronics," in *IEEE Consumer Electronics Magazine*, vol. 14, no. 3, pp. 74-79, May 2025, doi: 10.1109/MCE.2024.3443543.
17. G. Prasad, P. Tiwary, A. Pandey and S. Kumar, "A Lightweight α-μ Fading Environment-Based Localization Toward Edge Implementation," in *IEEE Wireless Communications Letters*, vol. 13, no. 11, pp. 3054-3058, Nov. 2024, doi: 10.1109/LWC.2024.3439564

18. A. Pandey, P. Tiwary and S. Kumar, "Bessel Function Mixture Model for Localization in Generalized η-μ IoT Fading Environment," in *IEEE Transactions on Network Science and Engineering*, vol. 11, no. 2, pp. 2279-2288
19. Tanya Verma, Arif Raza, Shivanshu Shrivastava, Bin Chen, U.D. Dwivedi, Amarish Dubey, "Intelligent Resource Allocation in Hybrid RF/LiFi Networks via Deep Deterministic Policy Gradient Based DRL Mechanism," *AEU - International Journal of Electronics and Communications*, Vol. 187, 2024. (IF: 3.2)
20. Arif Raza, Salabat Khan, Shivanshu Shrivastava, M. Wasim, Kaishun Wu, Lu Wang, "A Lightweight Group-based SDN-driven Encryption Protocol for Smart Home IoT Devices," *Computer Networks*, Vol. 250, 2024. (IF: 5.6)

Proceedings of International Conferences

1. Arka Dutta, B. Chikondra, K.C. Jana "A Data Driven Energy Efficient Control of Induction Motor Drive with Vector Control" 2024 IEEE International Conference on Power Electronics Drives and Energy Systems (PEDES), Suratkal, India,PP 1-6.
2. S. Pandey, B.Chikondra, and V.K. Singh, "Modelling and Identification of Lithium-Ion Battery Using Relay Feedback Response" 2024 IEEE International Conference on Power Electronics Drives and Energy Systems (PEDES), Suratkal, India, PP 1-6.
3. B. Chikondra, R. Vaish and U. D. Dwivedi, "Multi-switch Fault Diagnosis for the Voltage Source Inverter fed Multi-phase Motor Drives Based on Machine Learning," 2024 IEEE International Communications Energy Conference (INTELEC), Bengaluru, India, 2024, pp. 1-5, doi: 10.1109/INTELEC60315.2024.10679011.
4. R. Vaish, B. Chikondra and U. D. Dwivedi, "Challenges Posed by Renewable Energy Source Integration to Machine Learning Based Power System Fault Diagnosis," 2024 IEEE International Communications Energy Conference (INTELEC), Bengaluru, India, 2024, pp. 1-5, doi: 10.1109/INTELEC60315.2024.10679013. V
5. V. K. Singh, R Tripathi, and M. Badoni, "Simulation Platform for GaN-based Three-Phase Voltage Source Inverter Analysis: Switching Frequency and Deadtime", in 27th International Conference on Electrical Machines and Systems, Fukuoka, Japan, Nov 2024.
6. V. K. Singh and B. Chikondra, "A Novel Three-Phase Quadruple Boost Switched Capacitor Multilevel Inverter for PV Applications," 2024 IEEE International Communications Energy Conference (INTELEC), Bengaluru, India, 2024, pp. 1-6, doi: 10.1109/INTELEC60315.2024.10679023.

A. Mamidala, B. Chikondra, and V. K. Singh, "Design and Development of an Auxiliary Power Supply for Body Area Network Devices", in 19th EAI International Conference on Body Area Networks (EAI BODYNETS 2024), IIT BHU, Varanasi, India, Dec 2024.

7. Shivangi Srivastava, Sajal Agarwal, "**MoS**2 Transistor with Polymethylmethacrylate (PMMA) Gate Oxide for Low-Power Applications," IEEE 5th India Council International Subsections Conference (INDSCON), Punjab Engineering College, Chandigarh, 22-24 August 2024.
8. S. Shrivas, A. Dubey and R. Pandey, "Renewable Energy Storage from Biomass Derived Carbon:Comparative Study," *2024 IEEE 11th Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON)*, Lucknow, India, 2024, pp. 1-5, doi: 10.1109/UPCON62832.2024.10983730.
9. S. Pandey and S. Majhi, Parameter Identification and Control of Integrating Time Delay Systems, Proceedings of 10th IEEE Indian Control Conference (ICC), IISER Bhopal, India, pp. 1-6, December 9-11, 2024. DOI: 10.1109/ICC64753.2024.10883711.
10. S. Pandey, B. Chikondra and V. K. Singh, Modelling and identification of lithium-ion battery using relay feedback response, Proceedings of 11th IEEE International Conference on Power Electronics Drives and Energy Systems (PEDES), NITK, Surathkal, India, India, pp. 1-5, December 18-21, 2024. DOI: 10.1109/PEDES61459.2024.10961489.
11. B. Chikondra, V. K. Singh and S. Pandey, ``Active Neutral Point Clamped Voltage Source Inverter fed Five Phase Induction Motor Drive Using Carrier Based PWM, Proceedings of IEEE Energy Conversion Congress \& Exposition Asia (ECCE-Asia)}, Bengaluru, India, 2025. DOI: NA
12. V. K. Singh, B. Chikondra, S. Pandey, R. Tripathi and M. Badoni, A Nine-Level Switched-Capacitor Based Quadruple Boost Inverter Using Finite Control Set MPC, Proceedings of IEEE Energy Conversion Congress & Exposition Asia (ECCE-Asia), Bengaluru, India, 2025. DOI: NA.
13. V. Alagumurugesan, A. Birwal, S. S. Srikant, M. Hannan and S. Ghosh, "Design and Analysis of a Slotted Rectangular Patch Antenna for Dual-Band Radar Applications in C and X Bands," *2024 9th International Conference on Communication and Electronics Systems (ICCES)*, Coimbatore, India, 2024, pp. 88-93.
14. Hannan, M., Ghosh, S. (2024). Design and Analysis of Enhanced Bandwidth Slotted Logarithmic Spiral Patch Antenna for 5G Communication. In: Shivakumara, P., Mahanta, S., Singh, Y.J. (eds) Proceedings of the NIELIT's International Conference on Communication, Electronics and Digital Technology. NICEDT 2024. Lecture Notes in Networks and Systems, vol 1023. Springer.
15. S. Chaturvedi, V. Mishra, M. Hussain, M. Hannan and S. Ghosh, "Design and Analysis of C, X, and Ku Band Antenna Integration for Enhanced V2V and V2I Communication," *2024 IEEE 11th Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON)*, Lucknow, India, 2024, pp. 1-6

16. Tanya Verma, Arif Raza, Shivanshu Shrivastava, UD Dwivedi, "An Efficient DRL-Based Technique for Resource Allocation in Heterogeneous WiFi/LiFi Systems," *31st National Conference on Communications (NCC)*, IIT Delhi, Mar. 2025.
17. Tanya Verma, Shivanshu Shrivastava, Arif Raza, UD Dwivedi, "Deep Reinforcement Learning-Based Q-Networks for Efficient Resource Allocation," *19th EAI BodyNet*, IIT BHU, Varanasi, Dec. 2024.
18. Tanya Verma, Arif Raza, Shivanshu Shrivastava, UD Dwivedi, "DRL Based Efficient Resource Allocation in Hybrid WiFi/LiFi Systems," *IEEE INDICON*, IIT Kharagpur, Dec. 2024.
19. Mohd. Rizwan, Wang Xingfu, Yi Ke, Ammar Hawbani, Shivanshu Shrivastava, Pelin Angin, Zhu Han, "A Color-Based Data Poisoning Backdoor Approach for Misleading Adversarial Privacy Prediction," *MobiSec 2024*, Sapporo, Japan.
20. Arif Raza, Junfan Xiang, Salabat Khan, Shivanshu Shrivastava, Muhammad Wasim Abbas Ashraf, Lu Wang, "Collaborative Multi-Agent Proximal Policy-Based Resource Allocation in Clustered IoV Networks," *IEEE UIC 2024*, Fiji.
21. R. S. Iyer, S. Raj, V. Mishra, Shivanshu Shrivastava, "Deep Learning-Based Multiuser Classification for Malicious User Detection in 5G and Beyond," *IEEE iSES 2024*, New Delhi.
22. Litao Ye, Bin Chen, Shivanshu Shrivastava, et al., "Dynamic Spectrum Sharing Based on the Rentable NFT Standard ERC4907," *13th IEEE ICCCAS*, Xiamen, China, May 2024.

5 Articles with maximum no. of Citations in last 5 years

1. Machine learning applications in power system fault diagnosis: Research advancements and perspectives [175], R Vaish, UD Dwivedi, S Tewari, SM Tripathi, Engineering Applications of Artificial Intelligence 106, 104504
2. Comparison of svpwm techniques under switching loss control for induction motor drive with lc filters [57], UR Muduli, B Chikondra, MJ Akhtar, O Al Zaabi, K Al Hosani, RK Behera, IEEE Transactions on Industry Applications 59 (2), 1849-1862
3. Space vector PWM based DTC scheme with reduced common mode voltage for five-phase induction motor drive [61], UR Muduli, B Chikondra, RK Behera, IEEE Transactions on Power Electronics 37 (1), 114-124
4. Shivanshu Shrivastava, B. Chen, C. Chen, H. Wang, M. Dai, "Deep Q-Network Learning Based Downlink Resource Allocation for Hybrid RF/VLC Systems," *IEEE Access*, vol. 8, pp. 149412–149434, 2020, doi.: 10.1109/ACCESS.2020.3014427 [51]
5. Improved DTC technique for THL-NPC VSI fed five-phase induction motor drive based on VVs assessment over a wide speed range [41], B Chikondra, UR Muduli, RK Behera, IEEE Transactions on Power Electronics 37 (2), 1972-1981

6. Direct torque control of 3x5 matrix converter fed five-phase im drive using virtual vector concept [34], UR Muduli, B Chikondra, RK Behera, 2021 IEEE Applied Power Electronics Conference and Exposition (APEC), 765-770

Distinguished Visitors

S. No.	Name of the visitor & Designation	Date of Visit	Purpose of Visit
1	Mr. Hari Nagarjun & Technical Architect-VLSI, Tata Consultancy Services	15.09.2024	1st Year Orientation Program (Online)

Indian Faculty visits in the Department/Centre/Centre

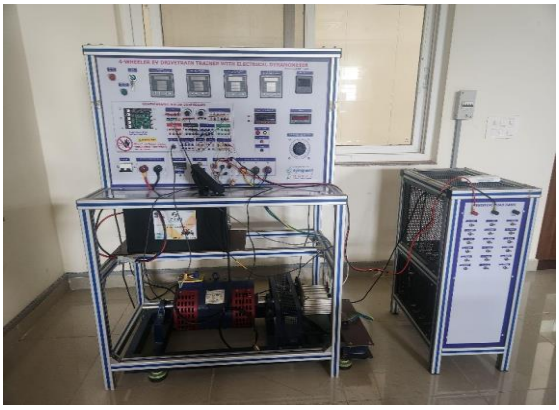
S. No.	Name of Faculty Member	Purpose of Visit	Date and Venue
1	Prof. Rajesh Gupta	Expert lecture and interaction with students	17th January 2025, EEE Department



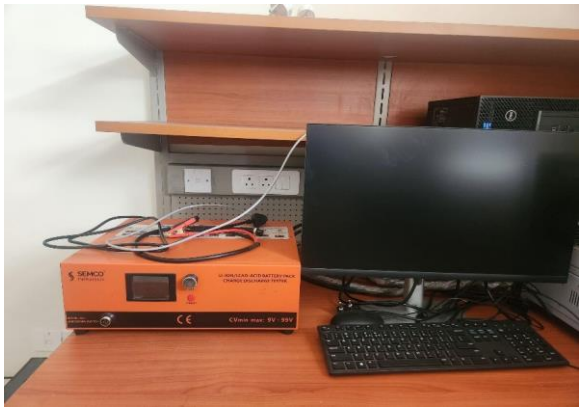
DC Regulated Power Supply with AC/DC distribution Box



3-Level 3-Phase VSI with PWM Control Inverter



4-Wheeler EV Drivetrain Trainer with Electrical Dynamometer



Lithium Ion/Lead-Acid Battery Pack Charge/Discharge Tester

अध्याय -8

विज्ञान और मानविकी विभाग

स्थापना का वर्ष: 2008

विभाग/केंद्र के प्रमुख/समन्वयक/प्रभारी: प्रो. अतुल शर्मा मई 2024 से।

ऊर्जा एवं मानव विज्ञान विभाग का लक्ष्य विज्ञान एवं मानविकी में उच्च-गुणवत्तापूर्ण शिक्षा और नवीन अंतःविषयक अनुसंधान के साथ एक अत्याधुनिक विभाग बनना है। अगली पीढ़ी को ज्वलंत सामाजिक और वैज्ञानिक मुद्दों से निपटने के लिए प्रेरित करने के प्रयास में, विभाग भौतिकी, रसायन विज्ञान, अंग्रेजी, समाजशास्त्र आदि सहित विभिन्न विषयों में डॉक्टरेट कार्यक्रम प्रदान करता है। इसके अतिरिक्त, विभाग उच्च-स्तरीय निर्देशन और स्वतंत्र अध्ययन के माध्यम से छात्रों को अपनी अनूठी क्षमताओं की खोज करने और अपनी क्षमताओं को विकसित करने के लिए निरंतर प्रेरित करता है। छात्रों को अत्याधुनिक अनुसंधान और शिक्षण प्रयोगशालाओं में विज्ञान और मानविकी के व्यावहारिक पहलुओं को सीखने का अच्छा अवसर मिलता है। विज्ञान एवं प्रौद्योगिकी विभाग, परमाणु ऊर्जा विभाग, वैज्ञानिक एवं औद्योगिक अनुसंधान परिषद, और अन्य वित्त पोषण एजेंसियों ने विभाग के संकाय सदस्यों द्वारा निष्पादित कई अनुसंधान एवं विकास परियोजनाओं को समर्थन और वित्त पोषण प्रदान किया है। छात्रों को सार्वभौमिक मानवीय मूल्यों से परिचित कराना और उन्हें उपयुक्त वैज्ञानिक एवं मानविकी क्षेत्रों में आवश्यक ज्ञान और क्षमताओं से सुसज्जित करना विभाग का प्राथमिक लक्ष्य है। विभाग अपने शिक्षकों और छात्रों को बहुविषयक अनुसंधान में संलग्न होने के लिए प्रोत्साहित करने पर विशेष जोर देता है, जिसका शैक्षणिक और व्यावसायिक दोनों क्षेत्रों में वास्तविक अनुप्रयोग हो।

अनुसंधान के प्रमुख क्षेत्र:

- विकास का समाजशास्त्र, प्रवासी अध्ययन
- समकालीन साहित्य में पुरुष-महिला संबंध
- भारतीय सिनेमा में नारीवाद और लैंगिक मुद्दे
- विज्ञापन पटकथा और सिद्धांत
- ऊर्जा और संचार
- ओटीटी प्लेटफॉर्म
- चमकदार नैनोमटेरियल
- अपशिष्ट मूल्य निर्धारण (बायोमास/पॉलिमर)
- अपशिष्ट प्लास्टिक मूल्य निर्धारण
- बायोमास-संचालित हरित हाइड्रोजन उत्पादन
- बायोमास उन्नयन,
- प्रवाह रसायन विज्ञान
- अकार्बनिक रसायन विज्ञान

• प्रकाश-उत्प्रेरण / ताप-उत्प्रेरण

• हरित उत्प्रेरण

• समुद्री जल विखंडन के लिए उन्नत विद्युत उत्प्रेरकों का विकास, जिसमें हाइड्रोजन विकास अभिक्रिया (HER) और ऑक्सीजन विकास अभिक्रिया (OER) दोनों पर ध्यान केंद्रित किया जाएगा।

• खट्टे जल और बायोमास-व्युत्पन्न अणुओं का विद्युत-रासायनिक सुधार/ऑक्सीकरण, जिससे हरित हाइड्रोजन और मूल्य-वर्धित हाइड्रोजन का सह-उत्पादन किया जा सके। रसायन

• उत्कृष्ट धातुओं (जैसे, Pt, Ir, Ru) के स्थान पर लागत-प्रभावी, पृथ्वी-प्रचुर उत्प्रेरक पदार्थों की जाँच

• बेहतर दक्षता और स्थिरता के लिए इलेक्ट्रोड डिज़ाइन, प्रतिक्रिया गतिकी और इलेक्ट्रोलाइट इंजीनियरिंग का अनुकूलन

• CO2 को मूल्यवर्धित रसायनों में परिवर्तित करने के लिए चयनात्मक और टिकाऊ इलेक्ट्रोकैटेलिस्ट का डिज़ाइन

• CO2 का सम्मिलन और रूपांतरण

• LOHC-आधारित हाइड्रोजन भंडारण और उपयोग

• डेटा संग्रहण उपकरण के लिए बहुलौह और चुंबकीय विद्युत पदार्थ

• सहसंबद्ध क्वांटम पदार्थ --- न्यूट्रॉन विवर्तन, अलौह न्यूट्रॉन प्रकीर्णन और muSR स्पेक्ट्रोस्कोपी के माध्यम से जाँच

• बहुलौह क्वांटम क्रांतिकता

• चुंबकीय कैलोरी पदार्थ

• उच्च-k और निम्न-हानि परावैद्युत पदार्थ (वैकल्पिक ऊर्जा के लिए)

• पदार्थों का आयनिक नियंत्रण (आयनिक द्रव/जेल का उपयोग करके इलेक्ट्रोलाइट गेटिंग)

• एक्स-रे, muSR और न्यूट्रॉन स्पेक्ट्रोस्कोपी के माध्यम से दृढ़ता से सहसंबद्ध इलेक्ट्रॉन प्रणालियों की जाँच

• धातु-कार्बनिक ढाँचा - एक नया दृष्टिकोण बहुलौहता

• तापविद्युत पदार्थ

• प्रकाश उत्प्रेरकीय जल विखंडन हेतु पदार्थ

• मृदु संवेदक एवं प्रवर्तक

आधारभूत संरचना:

क्र. सं.	विवरण	संख्या
1.	कक्षाओं की संख्या	1
2.	व्याख्यान कक्षों की संख्या	1
3.	प्रयोगशाला की संख्या	2 (UG) 9 (PG)
4.	विभाग/केंद्र/केंद्र में छात्रों के लिए उपलब्ध कंप्यूटरों की संख्या	24

छात्र संख्या:

क्रम संख्या	कार्यक्रम	I वर्ष	II वर्ष	III वर्ष	IV वर्ष	V वर्ष और उससे अधिक

1.	पीएच.डी. (संस्थान फैलोशिप के तहत)	2 (2025)	5 (2024)	4 (2023)	5 (2022)	1 (2021)
2.	पीएच.डी. (प्रोजेक्ट फ़ेलोशिप के तहत)	3 (2025)		1 (2023)	1 (2022)	
3.	पीएच.डी. (प्रायोजित श्रेणी के अंतर्गत)	3 (2025) (CSIR NET JRF & NRL)		1 (NFSC) (2023)	1 (2022) (UGC NET JRF)	

उन छात्रों/विद्वानों के नाम जिन्होंने विदेश में या भारत में सम्मेलनों/कार्यशालाओं/सेमिनारों और संगोष्ठियों में भाग लिया:

क्रमांक	छात्र का नाम	रोल नंबर	सम्मेलन/संगोष्ठी/संगोष्ठी/कार्य शाला	दिनांक एवं स्थान	वित्तीय सहायता
भारत					
1	पूजा पांडे	22BS0007	3rd Energy, Functional Materials/Molecules and Nanotechnology & National Workshop on Solid Waste Management Conference, 2025	20th -22th March 2025, Kumaun University, Nainital	----
2	पूजा पांडे	22BS0007	20th Annual Session of Students Chemical Engineers Congress	20th -21th September 2024, RGIPT Jais	RGIPT
3	अंकित सिंह	21BS0003	International Conference on Polymers, Composites, Nanocomposites and Biocomposites (ICPCNB) 2024	8th – 10th November 2024, Mahatma Gandhi University, Kottayam	----
4	अंकित सिंह	21BS0003	International Conference on Microbial Innovations for Synergistic Advancements (MISA	17th -18th September 2024, SBS University, Dehradun	----

			2024)		
5	उत्सव मिश्रा	21BS0014	E2M International conference- 2024	11th -13th July 2024, IIT Indore	RSG
6	अरविन्द स्वामी	21BS004	E2M International conference- 2024	11th -13th July 2024, IIT Indore	RSG
7	परवेज़ ए खान	21BS0102	National Conference on Materials Chemistry & Catalysis, Tezpur Central University, Assam	7th – 8th March 2025, Tezpur Central University	Research Project (P-2406)
8	आशीष के. यादव	21BS0011	Conference on Advances in Chemistry for Energy & Environment – 2024, TIFR – Mumbai	16th – 20th December 2024, TIFR – Mumbai	Institute (TA Contingency)
9	आशीष के. यादव	21BS0011	India Energy Week – 2025, New Delhi	11th – 14th February 2025, New Delhi	Research Project (P-2406)
10	श्रीमती प्रेरणा त्रिपाठी	20BS005	20th Annual Session of Students Chemical Engineering Congress (SCHEMCON-2024)	20th – 21st September 2024, RGIPT	RGIPT
11	-आदित्य कुमार मिश्रा	23BS0001	International CEES-2024 Conference	18th – 20th September 2024, CSIR-IICT, Hyderabad	NA
12	हेमंत	23BS003	One Day Workshop	29th October 2024, RGIPT, Amethi	None
13	मोहित कुमार	22BS0004	School on Magnetism and Spintronics	02nd -04th December 2024, IIT Kanpur	RGIPT
14	एकता कुशवाह	22BS0002	Indo-German Workshop	November 2024, NISER Bhubaneswar	RGIPT
15	सायन घोष	23BS0008	Synchrotron beamtime experiments	September 2024, RRCAT, Indore	RRCAT, UGC-DAE, Indore

संस्थान के बाहर पुरस्कार एवं पुरस्कार प्राप्त करने वाले विद्यार्थियों/विद्वानों के नाम:

क्रम संख्या	छात्र का नाम	रोल नंबर	पुरस्कार का नाम	तिथि और स्थान	पुरस्कार दिया गया
1	उत्सव मिश्रा	21BS0014	Poster Prize	13th July 2024, IIT Indore	Royal Society of Chemistry
2	परवेज़ ए खान	21BS0102	ACS Applied Nanomaterials Best Poster Award	8th March 2025, Tezpur Central University, Assam	Tezpur Central University, Assam
3	सायन घोष	23BS0008	Indo-Japan fellowship	March 2024, Photon Factory, KEK, Japan	DST-KEK
4	सायन घोष	23BS0008	Synchrotron beamtime, Travel fellowship	September 2024, RRCAT, Indore	RRCAT, UGC-DAE, Indore

विदेश में इंटर्नशिप के लिए गए छात्रों/स्कॉलर के नाम

क्रम संख्या	छात्र का नाम	रोल नंबर	संगठन का नाम	इंटर्नशिप का स्थान	देश	अवधि
1	सायन घोष	23BS0008	DST-KEK	Photon Factory, KEK, Japan	Japan	7 days
2	गौरव रॉय	22BS0003	CEFIPRA	CRISMAT lab, France	France	6 months

संकाय और उनकी विशेषज्ञता के क्षेत्र:

क्रम संख्या	नाम, योग्यताएं, कर्मचारी संख्या	पीएचडी डिग्री प्रदान करने की तिथि	विशेषज्ञता के प्रमुख क्षेत्र (अधिकतम 3)
आचार्य			
1	अभय कुमार चौबे, पीएच.डी.,	1995	Organic Chemistry, Nanotechnology, Water Shut-off and EOR
2	अतुल शर्मा, पीएच.डी.	2003	Phase change material, Solar thermal energy storage system & Renewable energy
सह- आचार्य			
1	सौरभ मिश्रा, पीएच.डी.	2007	Communication

2	देबाशीष पांडा, पीएच.डी.	2008	Spectro-Microscopy, Catalysis, Biomass Valorization
सहायक आचार्य			
1	अनिर्बान मुखर्जी, पीएच.डी.	2012	Sociology
2	विपिन अमोली	2016	Physics
3	तथामय बसु, पीएच.डी.	2016	Condensed Matter Physics, Quantum Materials, Magnetism
4	तन्मय घोष, पीएच.डी. पीएच.डी.	2018	Thermoelectric materials
5	अरशद ऐजाज़, पीएच.डी.	2011	Nanostructured porous materials (MOFs, COFs, Carbon), Electrocatalysis (Water electrolysis, Fuel cell, Metal-air batteries, CO2 reduction), Catalytic organic transformation (C-C coupling, C-N coupling, CO2 fixation and conversion, etc.)
6	शिखा सिंह, पीएच.डी.	2017	Energy/2D material, Sensor, Catalysis
7	ओमवीर सिंह, पीएच.डी.	2022	Green Catalysis, Biomass Upgradation,Waste Plastic Valorization,
8	मलय कुमार साहू, पीएच.डी.	2020	Electrochemistry, Physical Chemistry
9	प्रवीण कुमार श्रीवास्तव, पीएच.डी.	2014	Integrated Biogas Technology, Waste management, Biotransformation

तकनीकी और गैर-शिक्षण कर्मचारी:

क्र.सं.	नाम, योग्यता	पदनाम, कर्मचारी क्रमांक	विभाग में नियुक्ति की तिथि
1.	महेश सिंह (एम.ए. आईआरपीएम, एमबीए पाठ्यक्रम)	सहायक ग्रेड I	2 मई 2022
2.	अनुरुद्ध श्रीवास्तव (आईटी में डिप्लोमा)	तकनीशियन ग्रेड I	3 जुलाई 2021
3.	आडिग प्रताप सिंह (आईटीआई, कला में एम.ए.)	तकनीशियन ग्रेड I	7 जून 2018
4.	मनीष सोमवंशी (एमएससी, बी.एड)	तकनीशियन ग्रेड I	25 अगस्त 2023
5.	करण बहादुर (हाई स्कूल)	परिचारक	8 मई 2018

संकाय सदस्यों द्वारा आयोजित अल्पकालिक पाठ्यक्रम/कार्यशालाएं/सेमिनार/संगोष्ठी/सम्मेलन

क्रम संख्या	समन्वयक	शीर्षक	अवधि
1	डॉ. तथामय बसु	Design and Characterisation of Magneto-electric Materials for Next-Generation Devices	30th November 2024
2	डॉ. विपिन अमोली	One-day SERB-Sponsored Scientific Workshop on Wearable Sensors and Actuators: The World of Small Life Technologies	30th November 2024

शैक्षणिक संस्थानों और सार्वजनिक क्षेत्र के उपक्रमों में संकाय सदस्यों द्वारा भाग लिए जाने वाले अल्पकालिक पाठ्यक्रम/कार्यशालाएं/सेमिनार/संगोष्ठी/सम्मेलन/प्रशिक्षण कार्यक्रम

क्र.सं.	संकाय सदस्य का नाम	शीर्षक	अवधि और स्थान
सेमिनार/संगोष्ठी/सम्मेलन			
1.	डॉ. देबाशीष पांडा	Carbon-Neutral Photo/Electro-Catalysts for Water Splitting	19th August 2024 (ACS Virtual Symposia)
2.	डॉ. देबाशीष पांडा	Sustainable Transreflective Material: Color & Cooler	20-23rd March 2025
3	डॉ. अरशद ऐजाज़	Single-Atom-Catalysts (SACs) for Electrocatalysis (MCC-2025 Conference, Invited Talk)	7th - 8th March, 2025, Tezpur Central University, Assam
4	डॉ. अरशद ऐजाज़	Presentation of In-House Fabricated Electrolyzer (India Energy Week – 2025)	11th – 14th February 2025, New Delhi
5	डॉ. अरशद ऐजाज़	Coupling single-atom-catalysts with second metals for electrocatalysis (ACS Fall 2024, Global Virtual Symposium)	18th August 2024, Virtual Session, USA
6	डॉ शिखा सिंह	Emerging Materials for Sustainable Hydrogen Generation	5th–6th April 2024, International Conference on Catalysis for Clean Energy Technologies and Sustainable Development, Dr. S. S.

			Bhatnagar University Institute of Chemical Engineering & Technology
7	डॉ शिखा सिंह	Upconversion Nanomaterial and Thermoelectric Generator Device Integrated β-SiC Nanosystem for Efficient Solar Hydrogen Production	3rd – 6th February 2025, International Conference on Environment and Sustainable Development (ICESD - 2025) organised by Institute of Environment and Sustainable Development, Banaras Hindu University, Varanasi, India
8	डॉ शिखा सिंह	Graphene-Sulphur form as Chlorine Repellent for Selective Oxygen Evolution	8th – 10th March 2025, International Conference on Sustainable Energy and Environment (ICSEE) 2025 schedule for at the Department of Chemical Engineering, BITS Pilani
9	डॉ. मलय कुमार साहू	India Energy Week (IEW) 2025	11th – 14th Febuary 2025, Yashobhoomi, Dwaraka, New Delhi, India
10	डॉ. ओमवीर सिंह	Catalytic Production of sustainable aviation fuel (SAF) from renewable feedstock	21st – 23rd March 2025, International Conference on Polymers and Nanomaterials (ICPN-2025), Mahatma Gandhi University, Kottayam, Kerala, India, (Invited talk)
11	डॉ. ओमवीर सिंह	Biomass conversion towards net zero challenge and future prospective	6th – 8th March 2025, 2nd Global Conference on Decarbonizing India, National Institute of Technology Calicut, India (Oral presentation)
12	डॉ. ओमवीर सिंह	Sustainable Development: Challenges and Opportunities in Biomass Upgradation	6th – 7th December 2024, IIT(ISM) Dhanbad, (invited talk)
13	डॉ. ओमवीर सिंह	Faculty development program on multi-disciplinary & research with Emphasis on the Indian knowledge system.	21st -27th January 2025, Uttarakhand Science Education and Research centre (USERC), Dehradun(Keynote speaker)
14	डॉ. ओमवीर सिंह	Production of aromatics hydrocarbon from unconventional feedstock over a metal-supported zeolite	24th – 26th October 2024, 6TH International Symposium On Materials, Electrochemistry & Environment (CIMEE 2024), Lebanon (invited talk).

अन्य संस्थानों में संकाय सदस्यों द्वारा दिए गए विशेष व्याख्यान:

क्रम संख्या	संकाय सदस्य का नाम	व्याख्यान का विषय	संस्थान	दिनांक
1	डॉ. अनिर्बान मुखर्जी	Organizational Management	IIT Mandi	Even Semester 2025
2	डॉ. प्रवीण कुमार श्रीवास्तव	A Self-Sustained Biogas Plant integrated with Vermicomposting and Aquaponics Systems: A Holistic Approach to Addressing Interconnected Challenges	ICAR-NBFGR, Lucknow	22nd April 2025
3	डॉ. देबाशीष पांडा	Spectro(Microscopy) & Sustainability of Emerging Photoluminescent Materials	Department of Chemistry, IIT Guwahati	29th January 2024
4	डॉ. मलय कुमार साहू	Renewable Energy Production and Storage for Future Applications	Vellore Institute of Technology, Vellore, Tamil Nadu 632014, India	7th March 2025
4	डॉ.विपिन अमोली	Iontronic Polymer Pumps for Skin-Inspired Sensors and Actuators	National Centre for Flexible Electronics, FleXe, IIT Kanpur, May 2024	8th May 2024
5	डॉ.विपिन अमोली	Introduction to flexible sensors and their applications	HAL, Korwa	26th December 2024

संकाय सदस्यों द्वारा विदेश दौरे:

क्र. सं.	संकाय सदस्य का नाम	जिस देश का दौरा किया गया	भारत छोड़ने की तारीख	भारत लौटने की तारीख	दौरे का उद्देश्य	मिलने वाली धनराशि
1	डॉ. अरशद ऐजाज़	जर्मनी	5th June 2024	26th July 2024	Collaborative research work (Guest Scientist)	Ruhr-University, Germany & RGIPT

2	डॉ. तथामय बसु	जापान	15th March 2024	25th March 2024	KEK Beamtime	KEK-DST India

सम्मान और पुरस्कार

क्र. सं	संकाय सदस्य का नाम	पुरस्कार का विवरण
1	डॉ शिखा सिंह	Session Chair at International Conference on Sustainable Energy and Environment (ICSEE) 2025 schedule for 8th – 10th March at the Department of Chemical Engineering, BITS Pilani
2	डॉ. तथामय बसु	Scientific High-Level Visiting Fellowship through CEFIPRA to visit the CNRS, CRISMAT lab, France
3	डॉ. तथामय बसु	Travel fellowship through DST-KEK to visit Photon Factory, KEK, Japan

संकाय सदस्यों द्वारा लिखित/सह-लेखक पुस्तकें, मोनोग्राफ:

क्र. सं.	लेखक/सह-लेखक का नाम	शीर्षक	प्रकाशक
1	ए. शुक्ला, ए. शर्मा और एस. मिश्रा (संपादक)। 2024	The South Asian Energy Corridor	Apple Academic Press. ISBN 978177 4914786.
2	पी. त्रिपाठी और ए. के. चौबे	(Book Chapter) Biocrude Oil Biorefinery An Emerging Biorefining Approach (ISBN 978-3-031-85035-6)	Springer Nature 2025
3	पी. त्रिपाठी और ए. के. चौबे	(Book Chapter) Sustainable Aviation Fuels Recent Advances and Future Challenges	Springer Nature 2025
4	ए. सिंह, ए. के. चौबे और के. नंदन	(Book Chapter) Hazardous Chemicals Overview, Toxicological Profile, Challenges, and Future Perspectives (ISBN: 978-0-323-95235-4)	Academic Press, UK, 2024
5	ए. शुक्ला, ए. शर्मा और के. कांत	Thermal Energy: Applications, Innovations, and Future Directions	CRC Press, Taylor and Frances Group, ISBN 978100334555 8 (2024)
6	एच. मिश्रा, एस. पांडे और ए. शर्मा	(Book Chapter) Barriers to Hydrogen Production, Storage, and Utilization, Green Hydrogen Economy for Environmental Sustainability	ACS Books
7	एस. पांडे, ए. आनंद, ए. शुक्ला और ए. शर्मा	(Book Chapter) Nano Composite PCMs for Thermal Energy Storage Applications, Technological Advancement in Clean Energy Production	Apple Academic Press

8	पी. गुप्ता, पी. के. माजी और ए. शर्मा	(Book Chapter) Introduction to Thermal Energy and Its Storage Materials, Thermal Energy: Applications, Innovations, and Future Directions	CRC Press
9	बी. के. पुरोहित, के. कांत, ए. शुक्ला और ए. शर्मा	(Book Chapter) Thermochemical Heat Storage: Materials and Application, Thermal Energy: Applications, Innovations, and Future Directions	CRC Press
10	एन. मिश्रा, एस. पांडे, ए. शुक्ला और ए. शर्मा	(Book Chapter)Thermal Energy Storage for Solar Water Heating, Cooking, and Ponds, Thermal Energy: Applications, Innovations, and Future Directions	CRC Press
11	एस. पांडे, ए. आनंद, ए. शुक्ला और ए. शर्मा	(Book Chapter) Solar Thermal Energy for Drying and Other Small Scales of Industrial Applications, Thermal Energy: Applications, Innovations, and Future Directions	CRC Press
12	ए. आनंद, पी. गुप्ता, मुहम्मद मंसूर, ए. शुक्ला और ए. शर्मा	(Book Chapter) Waste Heat Recovery from Industry Through Thermal Energy Storage Mediums, Thermal Energy: Applications, Innovations, and Future Directions	CRC Pres
13	आर. कुमार, ए. कुमार और ए. शर्मा	(Book Chapter) Overview of Hydrogen Production Methods from Solar Energy, Thermal Energy: Applications, Innovations, and Future Directions	CRC Press
14	एस. पांडे, ए. आनंद, ए. शुक्ला और ए. शर्मा	(Book Chapter) Nanofibers For Energy Applications, Tailored Functional Materials for Clean and Sustainable Development	Apple Academic Press

पत्रिकाओं के संपादकीय बोर्ड पर संकाय सदस्य:

क्रम संख्या	संकाय सदस्य का नाम	पद (संपादक/सदस्य)	जर्नल का नाम
1	डॉ. अनिर्बान मुखर्जी	Reviewer	Frontiers in Energy Research (Advances in Solar Thermal Energy Storage Systems)
2	प्रो. ए.के.चौबे	Member, Editorial Board	Frontiers in Energy Research
3	प्रो. ए.के.चौबे	Member, Editorial Board	Journal of Petroleum Engineering & Technology

नई सुविधाएं जोड़ी गई

क्रम संख्या	विवरण (बुनियादी संरचना, उपकरण, आदि)	मूल्य (लाखों रुपये में)
1	Force Sensor (Mark -10, USA)	7.25

2	Workstation for vacuum sealing of quartz tubes	2.39
3	Low speed precision diamond cutter	2.94
4	20L & 50L CSTR Reactor	13
5	UV-Vis Spectrophotometer	11
6	Bipotentiostat	25

पेटेंट

क्र. सं.	संकाय सदस्य का नाम	पेटेंट का शीर्षक
1	डॉ. देबाशीष पांडा	"Bifunctional Electrocatalyst for Hydrogen Production at Industrial Current Density and Process for Preparing the Same" (Application No.: 202511017168)
2	डॉ. अरशद ऐजाज़	Method and System for Sodium Sulphide Induced NiFeCo based Trimetallic Electrode for Seawater Electrolysis, National (Patent File Number: 202311053857)
3	डॉ. अरशद ऐजाज़	Three-Dimensional Electrode for Seawater Electrolysis, National, Filed (Patent File Number: 202211015887

प्रायोजित अनुसंधान परियोजनाएँ

क्रम संख्या	शीर्षक	अवधि	फंडिंग एजेंसी	राशि (लाख रुपये में)	समन्वयक
1	Electrochemical conversion of aq. ethanol/methanol to acetic acid/formic acid & hydrogen	March 2025-August 2026	NRL	72.0	Dr. Arshad Aijaz (PI)
2	Development of Electrodes & Modular Compact Membraneless Electrolyzer Setup for Sustainable H2 Production from Sea/Tap/Ground Water, 2022-25, 253.28 Lakhs, Ongoing	March 2022-March 2026	DST	253.28	Dr. Arshad Aijaz (PI)
3	Metal-Organic Frameworks-Derived Nanomaterials for Electrocatalysis	October 2021-September 2025	CSIR	19.0	Dr. Arshad Aijaz (PI)
4	Technical Upgradation of Electrode and Membraneless Electrolyzer for Sea Water Electrolysis	2024-25	NTPC	128.67	Dr. Arshad Aijaz (Co-PI)
5	Demonstration of Redox Flow Battery for Stationary Energy Storage at kW Scale	2024-25	BPCL	82.80	Dr. Arshad Aijaz (Co-PI)

6	Scaling up to Demonstration Plant: Production of Microcellulose, Nanocellulose and Fuel (Dimethyl Furan) from Rice Straw and Green Coconut Shells	2024-2026	CPCL	85	Dr. Debashis Panda (PI)
7	Electrocatalytic Conversion of H2S and Ammonia in Sour Water to Sulfur, H2, and Ammonium Sulfate as PI	March 2025-March 2027	Numaligarh Refinery Limited	67.5	Dr. Malaya Kumar Sahoo
8	Electrochemical conversion of aqueous ethanol/methanol to acetic acid/formic acid & hydrogen, as Co-PI	March 2025-March 2027	Numaligarh Refinery Limited	72.0	Dr. Malaya Kumar Sahoo
9	Fabrication of Hybrid Ionic Electroactive Polymers-based Low-powered, High performance Soft Actuators for Soft Robotics Applications	January 2023-January 2025	SERB, DST	24.95	Dr. Vipin Amoli
10	Investigation of magnetic structure and magnetoelectric coupling of designed 4d/5d-4f coupled strongly correlated systems	March 2022 - March 2025	UGC-DAE CSR	1.35	Dr. Tathamay Basu
11	Design and Investigation of magnetoelectric materials- an emerging route in data-storage devices	December 2022 - December 2024	SERB (Now ANRF)	33.54	Dr. Tathamay Basu

अनुसंधान प्रकाशन:

क्र.सं.		सं.
1	रेफरीड अंतर्राष्ट्रीय पत्रिकाओं में प्रकाशित पत्रों की कुल संख्या	44

Refereed International Journals:

1. Mukherjee and B. K. Pattnaik, The Evicted Tribals of Chhattisgarh: The Saga of Impoverishment and Marginalization, Sociological Bulletin, Sage 2025, 74(2), 132-151, DOI: 10.1177/00380229241313445
2. S. Satish and A. Mukherjee, The Fragrant Legacy: Reviving the Craft of Ittar-making in Kannauj Amidst Modern Challenges, Journal of Heritage Management, Sage Publications 2025, 10 (1): 1-13, DOI: 10.1177/24559296241301917

3. Bose and S. Mishra, Setting Narrative: A Study How OTT Content has influenced the women and sports in India, Cuestiones De Fisioterapia 2025, 54(2), 448-464, ISSN: 2695-7639
4. Bose and S. Mishra, Metanarratives of Indian neo-femininity in Netflix: A semiotic analysis of Delhi Crime and Bhaag Beanie Bhaag, Library Progress International 2024, Vol. 44 No. 3 (2024): JUL-DEC 2024, ISSN: 2320-317X
5. S. Yadav, A. Singh, P. K. Srivastava and Choubey, Optimizing growth performance of Abelmoschus esculentus (L.) via synergistic effects of biogenic Cu/Ni/Co oxide nanoparticles in conjunction with rice straw and pressmud based vermicompost, Pedosphere 2025, DOI: 10.1016/j.pedsph.2025
6. S. Kumari, R. K. Singh, A. Singh, A. K. Choubey and P. K. Srivastava, Optimization and evaluation of Eisenia fetida-based vermicompost derived from fish processing waste, rice straw, and biogas slurry for sustainable agriculture, Process Safety and Environmental Protection 2025, 198, 107225, DOI: 10.1016/j.psep.2025.107225
7. V. Kumar, P. Verma, F. A. de Freitas and P. K. Srivastava, et al., A critical review on biofuels generation from pulp-paper mill sludge with emphasis on pretreatment methods: Renewable energy for environmental sustainability BMC Environ Sci 2025, 2, 1–22, DOI: 10.1186/s44329-024-00016-0
8. R. K. Singh, P. K. Srivastava, G. N. Tiwari and A. S. K. Sinha, A sustainable floating dome biogas plants integrated with semi-transparent photovoltaic thermal collectors: Construction, production and economic analysis, Journal of Cleaner Production 2024, 475, 143706, DOI; 10.1016/j.jclepro.2024.143706
9. R. K. Singh, P. K. Srivastava, G. N. Tiwari and A. S. K. Sinha, Energy matrices, exergo-economic and enviro-economic analysis of an n-sPVT-FPC collector integrated with biogas plant, Solar Energy 2024, 273, 112537, DOI: 10.1016/j.solener.2024.112537
10. P. Pandey and A. K. Choubey, Green synthesized ZnO@CuO nanocomposites using Achyranthes aspera leaves extract for dielectric applications, Journal of alloys and Compounds 2024, 970, 172492, DOI: 10.1016/j.jallcom.2023.172492
11. S. Yadav, A. Singh and A. K. Choubey, Composition dependent variation in structural, morphological, optical and magnetic properties of biogenic CuO/NiO mixed oxides nanoparticles, Journal of Alloys and Compounds 2024, 979, 173422
12. Bardhan, A. Singh, H. Nishanta, S. Sharma, A. K. Choubey and S. Kumar, Biogenic Copper Oxide Nanoparticles for Improved Lubricity and Filtration Control in Water-Based Drilling Mud, Energy & Fuels 2024, 38, 8564 DOI: 10.1021/acs.energyfuels.4c00635
13. K. Prajapati, S. Yadav, A. K. Gomey, A. K. Choubey and R. Kumar, Assessment of performance and emission characteristics of CI engine using tyre pyrolysis oil and biodiesel blends by nano additives: An experimental study, Journal of the Energy Institute 2024, 117, 101825, DOI: 10.1016/j.joei.2024.101825

14. U. Mishra, A. Ansari, A. Chaurasiya, A. K. Singh, and D. Panda, Transparent, Fluorophore-doped Cellulose Nanocrystals Film prepared from Crop-Residue: Superior Radiative Cooler and Organic Photodetector, ACS Sustainable Chem. & Eng. 2025, 13, 2086–2096
15. S. Panda, G. Roy, T. Basu, and D. Panda, Facet {100} Fosters Resonance Energy Transfer in Ni/Co-doped CsPbBr3 Nanocrystals, ACS Appl. Energy Mater, 2024, 7, 10179
16. Kumar, A. Anand, A. Tripathi, P. N. Singh, D. Panda, K. D. P. Nigam and K. G. Biswas, A Sustainable Route of Mass Transfer for Liquid-Liquid Flow in Millimeter-sized Conduit: Unearthing the Potential of Argo waste-derived Nanomaterials, Waste and Biomass Valorization 2025, DOI: 10.1007/s12649-025-03124-3
17. N. Roy, T. Dasgupta, S. Ghosh, M. Jayaprakash, M. Pal, S. Shanavas, S. K. Pal, V. Muthukumar, K. A. Senthil, T. Ramasamy, M. Roy, B. Bose, D. Panda, R. Chakrabarty and P. Paira, Sialic Acid-Targeted Ru(II)/Ir(III)/Re(I) Complexes for Ferroptosis Induction in Triple-Negative Breast Cancer, Langmuir 2024, 40, 25390–25404
18. Tripathi, K. Sarkar, S. Patel, U. Mishra, K. D. P. Nigam, D. Panda and K. G. Biswas, Elucidating Flow-directed 98% CO2 Absorption Using Millimeter-sized Coild Flow Inverters: Nanocellulose-aided Sustainable Scope, Chem. Engg. Process. 2024, 205, 110022
19. S. K. Motahar, S. Saifi, S. Bera, A. Ghosh, D. Banerjee and A. Aijaz, Reusable Ni-Immobilized MOF Catalyst for Dehydrogenation of N-Heterocycles Under Milder Conditions, Chem. Eur. J. 2025, 31, e202404219
20. G. Dey, S. Saifi, A. K. Yadav, S. Awasthi, A. S. K. Sinha and A. Aijaz, Yolk-Shell α-/β-Ni(OH)2/Carbon Nanostructure for Efficient Oxygen Evolution Reaction, Cryst. Growth Des. 2024, 24, 8310-8318
21. S. Saifi, G. Dey, R. Shakir, J. Karthikeyan, R. Kumar, D. Bhattacharyya, A. S. K. Sinha and A. Aijaz, Single-Atomic Co-N4 Sites with CrCo Nanoparticles for Metal-Air Battery-Driven Hydrogen Evolution, Inorg. Chem. 2024, 63, 7218-7232
22. K. Verma, P. Tripathi, A. S. K. Sinha and S. Singh, Cutting -Edge OER Electrocatalysts for Sustainable Seawater Electrolysis: Progress, Obstacles and Future Prospects ACS Energy and Fuels 2025, 39, 2348-2380, DOI: 10.1021/acs.energyfuels.4c04519
23. K. Verma, P. Tripathi, A. S. K. Sinha and S. Singh, Graphene-Transition Metal Electrocatalysts for Sustainable Water Electrolysis, Chemistry Select 2024, 9, e202403155, DOI: 10.1002/slct.202403155
24. S. Sharma, R. Shanmugam, R. K. Mahto, Malaya K. Sahoo, H. S. Rao, Q. K. Nguyen and G. R. Rao, Oxygen vacancies in Ce-Gd-O promoter boost the electrochemical oxidation of methanol on Pt/C, Surfaces and Interfaces 2025, 58, 105842, DOI: 10.1016/j.surfin.2025.105842

25. Y. Setia, S. N. Paltasingh, S. K. Nayak, A. S. K. Sinha, U. Ojha and Malaya K. Sahoo, Porous Mo Modified Ni3N/Ni3S2 Hetero Interfacing for Facile Sulfur Oxidation Mediated Green H2 Production, Adv. Sustainable Syst. 2025, e00407, DOI: 10.1002/adsu.202500407
26. Joshi, O. Singh, A. Agrawal, N. Dhiman, B. P. Vempatapu, N. Gopinathan and A. Ray, Renewable Aromatic Hydrocarbons from Waste Cooking Oil over Hierarchical Imidazole Supported Zeolite, J. Mater. Chem. A 2024, 12, 12733-12743, DOI: 10.1039/D4TA00416G
27. O. Singh, C. Samanta, L. Kustov and L. Pinard, Zeolite Catalysts for Biomass Valorization: Tuning of active sites for promoting reactivity, sites for promoting reactivity, Catalysis Reviews Science and Engineering 2024, DOI: 10.1080/01614940.2024.2387535
28. O. Singh, B. Joshi, R. Tiwari, R. Goyal, R. Luque, C. Samanta and B. Sarkar, Production of renewable aromatics from tree-borne oils (TBO): Advances and future prospects, Chemical Engineering Journal 2025, 505, 159387, DOI: 10.1016/j.cej.2025.159387
29. O. Singh, H. S. Khairun, H. Joshi, B. Sarkar and N. K. Gupta, Advancing light olefin production: Exploring pathways, catalyst development, and future prospects, Fuel 2025, 379, 132992, DOI: 10.1016/j.fuel.2024.132992
30. N. Dhiman, B. Joshi, S. R. Yenumala, O. Singh, R. Bal, A. Ray and B. Sarkar, Greener production of styrene via low-temperature dehydration of phenethyl alcohol over co-supported P/ZrO2, Chemical Engineering Journal 2023, 480, 15, 148005, DOI: 10.1016/j.cej.2023.148005
31. P. Patel, I. Dimitriou, P. Mondal, O. Singh and S. Gupta, Process optimisation and enviro-economic assessment of carbon-negative hydrogen production from biomass co-gasification, Energy Conversion and Management 2025, 323, 119211, DOI: 10.1016/j.enconman.2024.119211
32. Kumar, A. Mishra, Shubham, Hemant, S. Bhattacharjee, R. R. Urkude, B. Ghosh, A. Bhaumik, A. K. Sinha and V. Amoli, Highly Asymmetric CuSA-Ov-Ti3c Atomic Sites Catalyst for Unprecedented Solar Hydrogen Generation, Advanced Energy Materials 2024, 14, 2401964, DOI: 10.1002/aenm.202401964
33. K. Goria, R. Kothari, H. M. Singh, D. Pathania, D. Buddhi, A. Sharma and V. V. Tyagi, Harvest of algal biomass with bioflocculants for biofuel with upstream and downstream processes: State-of-the-art towards sustainable alternative, Energy, Ecology and Environment, 2025, 10, 437
34. Srivastava, H. Mishra, S. Pandey, A. Sharma and Anil Kumar, Assessment of Phase Change Materials for Thermal Energy Storage in Solar Drying Applications, Multiscale and Multidisciplinary Modeling, Experiments and Design 2025, 8 (3), 1-13
35. Srivastava, A. Sharma and Anil Kumar, Performance evaluation of indirect solar drying system for potato slices: Comparative analysis with open-sun drying method, Solar Energy 2025, 1, 113114, DOI: 10.1016/j.solener.2024.113114

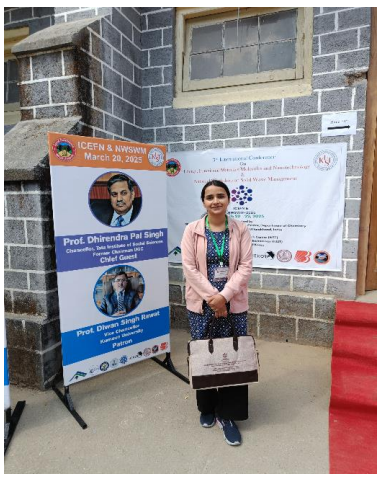
36. Anand, M. Mansor, K. Sharma, A. Shukla, Atul Sharma, M. I. H. Siddiqui, K. K. Sadasivuni, N. Priyadarshi and B. Twala, A comprehensive review on eutectic phase change materials: Development, thermophysical properties, thermal stability, reliability, and applications, Alexandria Engineering Journal 2025, 112, 254- 280, DOI: 10.1016/j.aej.2024.10.054
37. S. Pandey, A. Kumar and A. Sharma, Sustainable Solar Drying: Recent Advances in Materials, Innovative Designs, Mathematical Modeling, and Energy Storage Solutions, Energy 2024, 308, 132725
38. R. Kothari, H. M. Singh, K, Goria, S. Raina, V. V. Tyagi, Shamshad Ahmad, R. K. Singh, A. Sharma, S. Sheoran, F. Bruno and D. Buddhi, Utilization of rice crop residue to fortify biogas production with mitigation of aerosols for sustainable environment: Mechanism, potential strategies and opportunities, Biomass Conversion and Biorefinery 2024, 1-28, DOI: 10.1007/s13399-024-05571-9
39. Anand, R. A. P. Verayiah, Muhamad Mansor, Tengku Juhana Tengku Hasim, A. Shukla, H. Panchal, A. Sharma, L. Natryan and Abhinav Kumar, A comprehensive analysis of small-scale building integrated photovoltaic system for residential buildings: Techno-economic benefits and greenhouse gas mitigation potential, Journal of Building Engineering 2024, 82, 108232
40. S. Panda, G. Roy, T. Basu and D. Panda, Facet {100} Fosters Resonance Energy Transfer in Ni/Co-Doped CsPbBr3 Nanocrystals, ACS Appl. Energy Mater. 2024, 7, 21, 10179-10188, DOI: 10.1021/acsaem.4c02366
41. Kushwaha, G. Roy, M. Kumar, A. M. dos Santos, S. Ghosh, D. T. Adroja, V. Caignaert, O. Perez, A. Pautrat, and T. Basu, Origin of spin-driven ferroelectricity and effect of external pressure on the complex magnetism of the 6H perovskite Ba3HoRu2O9, Phys. Rev. B 2024 109, 224418. DOI: 10.1103/PhysRevB.109.224418
42. O. Cojocaru-Mirédin, Y. Yu, J. Köttgen, T. Ghosh, C.-F. Schön, S. Han, C. Zhou, M. Zhu and M. Wuttig, Atom Probe Tomography: a Local Probe for Chemical Bonds in Solids, Advanced Materials 2024, 36, 2403046, DOI: 10.1002/adma.202403046
43. N. Lin, S. Han, T. Ghosh, C.-F. Schön, D. Kim, J. Frank, F. Hoff, T. Schmidt, P. Ying, Y. Zhu, M. Häser, M. Shen, M. Liu, J. Sui, O. Cojocaru-Mirédin, C. Zhou, R. He, M. Wuttig and Y. Yu, Metavalent Bonding in Cubic SnSe Alloys Improves Thermoelectric Properties over a Broad Temperature Range, Advanced Functional Materials 2024, 34, 2315652. DOI: 10.1002/adfm.202315652
44. Maria, P. Acharyya, D. Voneshen, M. Dutta, A. Ahad, M. Etter, T. Ghosh, K. Pal and K. Biswas, Evidence of Lone Pair Crafted Emphanisis in the Ruddlesden–Popper Halide Perovskite Cs2PbI2Cl2, Advanced Materials 2024, 36, 2408008. DOI: 10.1002/adma.202408008

Articles with maximum no. of Citations in last 5 years

1. V. Srivastava and A. K. Choubey, Investigation of adsorption of organic dyes present in wastewater using chitosan beads immobilized with biofabricated CuO nanoparticles, *Journal of Molecular Structure* 2021, 1242, 130749, DOI: 10.1016/j.molstruc.2021.130749 (Citation - 74)
2. Anand, A. Shukla, A. Kumar, D. Buddhi and Atul Sharma, Cycle test stability and corrosion evaluation of phase change materials used in thermal energy storage systems, *Journal of Energy Storage* 2021, 39, 102664, DOI: 10.1016/j.est.2021.102664 (Citation - 63)
3. Shukla, K. Kant, P. H. Biwole, R. Pitchumani and Atul Sharma, Melting and solidification of a phase change material with constructal tree-shaped fins for thermal energy storage, *Journal of Energy Storage* 2022, 53, 105158, DOI: 10.1016/j.est.2022.105158 (Citation - 62)
4. Srivastava, A. Anand, A. Shukla, A. Kumar, D. Buddhi and A. Sharma, A comprehensive overview on solar grapes drying: Modeling, energy, environmental and economic analysis, *Sustainable Energy Technologies and Assessments* 2021, 47, 101513, DOI: 10.1016/j.seta.2021.101513 (Citation - 61)
5. G. Dey, R. Jana, S. Saifi, R. Kumar, D. Bhattacharyya, A. Datta, A. S. K. Sinha and Arshad Aijaz, Dual Single-Atomic Co–Mn Sites in Metal–Organic-Framework-Derived N-Doped Nanoporous Carbon for Electrochemical Oxygen Reduction, *ACS Nano*, 2023, 17, 19155, DOI: 10.1021/acsnano.3c05379 (Citation - 54)

विभाग/केंद्र/केंद्र में भारतीय संकाय का दौरा

क्र.सं.	संकाय सदस्य का नाम	दौरे का उद्देश्य	तिथि और स्थान
1	Prof. Sujit K Ghosh, IISER Pune	Invited Talk	RGIPT, 30th August 2024
2	Prof. Anil Kumar, DTU Delhi	Online Talk	RGIPT, 5th September 2024
3	Dr. S. D. Kaushik, UGC-DAE-CSR, Mumbai	SERB Sponsored Workshop	RGIPT, 30th November 2024
4	Prof. Ambesh Dixit, IIT Jodhpur	Discussion on energy and Physics research	RGIPT, 18th December 2024





अध्याय-9

प्रबंधन अध्ययन विभाग

विभाग/केंद्र का पूरा नाम: प्रबंधन अध्ययन विभाग
विभाग/केंद्र के प्रमुख/समन्वयक/प्रभारी: डॉ जया श्रीवास्तव

आधारभूत संरचना:

क्र. सं.	विवरण	संख्या
1	कक्षाओं की संख्या	01
2	व्याख्यान कक्षों की संख्या	01
3	विभाग/केंद्र/केंद्र में छात्रों के लिए उपलब्ध कंप्यूटरों की संख्या	40

विभाग द्वारा प्रस्तावित कार्यक्रमों की सूची

नए पाठ्यक्रम शुरू किए गए: ऊर्जा संक्रमण प्रबंधन में कार्यकारी एमबीए

क्रम संख्या	कार्यक्रम	I वर्ष	II वर्ष	III वर्ष	IV वर्ष	V वर्ष
1	एम.टेक/एमबीए	23	37			
2	पीएच.डी. (संस्थान फेलोशिप के अंतर्गत)	2	2	2	1	1
3	पीएच.डी. (प्रोजेक्ट फेलोशिप के अंतर्गत)	1				

उन छात्रों/विद्वानों के नाम जिन्होंने विदेश में या भारत में सम्मेलनों/कार्यशालाओं/सेमिनारों और संगोष्ठियों में भाग लिया:

क्र.सं	छात्र का नाम	रोल नंबर.	सम्मेलन/सेमिनार/संगोष्ठी/कार्यशाला	तिथि एवं स्थान	वित्तीय सहायता से
भारत					
1	श्री सचिन सिंह	23MS0005	13th International Conference of the Emerging Markets Conference Board (EMCB)	19-21 December 2024; IIM Lucknow-Noida Campus	RGIPT

2	श्री सचिन सिंह	23MS0005	1st International Conference on "Sustainable Management Strategies for India's Future"	9-11 May 2025, IIM Kashipur	RGIPT
3	श्री वेदांत तिवारी	24MS0010	13th International Conference of the Emerging Markets Conference Board (EMCB)	19-21 December 2024; IIM Lucknow-Noida Campus	RGIPT
4	श्री अनुज कुमार	23MS0001	13th International Conference of the Emerging Markets Conference Board (EMCB) Best Paper Award	19-21 December 2024; IIM Lucknow-Noida Campus	RGIPT
5	श्री हर्ष सिंह	23MS0002	1st International Conference on "Sustainable Management Strategies for India's Future"	9-11 May 2025, IIM Kashipur	RGIPT

संस्थान के बाहर पुरस्कार और सम्मान पाने वाले छात्रों/विद्वानों के नाम:

क्रम संख्या	छात्र का नाम	Name of Prize	तिथि एवं स्थान	पुरस्कार प्रदान करने वाला
1	श्री अनुज कुमार	Best paper Award	19-21 December 2024; IIM Lucknow-Noida Campus	IIM Lucknow

संकाय और उनकी गतिविधि

संकाय और उनकी विशेषज्ञता के क्षेत्र:

क्रम संख्या	नाम, योग्यताएं और कर्मचारी संख्या	पीएचडी डिग्री प्रदान करने की तिथि	विभाग में शामिल होने की तिथि	विशेषज्ञता के प्रमुख क्षेत्र (अधिकतम 3)
प्रोफेसर				
1	प्रोफेसर संजय कर	Aug 2009	Aug 2009	Marketing, Retailing, Energy
एसोसिएट प्रोफेसरों				
1	डॉ रोहित बंसल	Dec 2014	July 2013	Finance, Behavioral Finance, Accounting
2	डॉ जया श्रीवास्तव	Nov 2007	Aug 2009	Human Resource Management
3	डॉ. सरोज कुमार मिश्र	May 2012	Dec 2011	Marketing & Consumer Behaviour, B2B Marketing

4	डॉ कविता श्रीवास्तव	Nov 2016	Nov 2016	Marketing and Consumer Behavior
सहायक प्रोफेसर				
1	डॉ. श्रवण कुमार त्रिवेदी	May 2015	July, 2022	Business Analytics, Information Systems
2	डॉ देबाशीष जेना	Feb 2012	Mar, 2011	Operations & Supply Chain Management
3	डॉ. अभय पंत	Feb 2019	Dec 2024	Economics

शिक्षण और गैर-शिक्षण कर्मचारी

क्रम संख्या	नाम, योग्यताएँ	पदनाम, कर्मचारी संख्या	विभाग में नियुक्ति की तिथि
1	अरविन्द कुमार वर्मा (एम. कॉम) पीजीडीसीए	सहायक (ग्रेड-I)	अगस्त 2019
2	खुशबू बानो (बी. कॉम) एडीसीए	सहायक (ग्रेड-I)	अप्रैल 2023
3	सर्वेश उपाध्याय (बी.एससी, बी.एड, एडीसीए)	कार्यालय परिचर	मई 2023

संकाय सदस्यों द्वारा आयोजित अल्पकालिक पाठ्यक्रम/कार्यशालाएं/सेमिनार/संगोष्ठी/सम्मेलन:

क्रम सं.	समन्वयक	शीर्षक	अवधि
1	डॉ. रोहित बंसल (आईओसीएल प्रशिक्षण कार्यक्रम)	MDP	14-25 July 2025
2	प्रोफ़ेसर संजय कर	Gas Paradigm 2025- Strategies for a Gas-Based Economy	22-23 April 2025
3	डॉ जया श्रीवास्तव (आईओसीएल के लिए परामर्श सत्र)	MDP	3rd Feb 2025
4	डॉ. जया श्रीवास्तव (आईओसीएल के लिए बातचीत की कला)	MDP	18-19 November 2024

शैक्षणिक संस्थानों और सार्वजनिक क्षेत्र के उपक्रमों में संकाय सदस्यों द्वारा भाग लिए जाने वाले अल्पकालिक पाठ्यक्रम/कार्यशालाएं/सेमिनार/संगोष्ठी/सम्मेलन/प्रशिक्षण कार्यक्रम:

क्रम संख्या	संकाय सदस्य का नाम	शीर्षक	अवधि और स्थान
सेमिनार/संगोष्ठी/सम्मेलन			
1	डॉ. रूपा मंजुनाथ	2024 IEEE 29th Asia Pacific Conference on Communications (APCC)	05- 07 November 2024, Bali Indonesia

2	डॉ. रूपा मंजुनाथ	2024 17th International Conference on Sensing Technology (ICST)	9-11 December 2024, Sydney, Australia
3	डॉ. रोहित बंसल	Research Collaboration	20 July 2024, Saudi Electronic University Riyad KSA
4	डॉ. रोहित बंसल	Research Collaboration	12th Dec 2024, Ministry of Defence, New Delhi
5	डॉ. रोहित बंसल	Research Collaboration	15th Jan 2025, Hal, Korba for research and industry projects

अन्य संस्थानों में संकाय सदस्यों द्वारा दिए गए विशेष व्याख्यान:

क्रम संख्या	संकाय सदस्य का नाम	व्याख्यान का विषय	संस्था	दिनांक
1	डॉ. रोहित बंसल	External Examiner	MNIT Jaipur	02 June 2025
2	डॉ. रोहित बंसल	Research Methodology	GTU, Ahmedabad	10 July 2025
3	प्रो. संजय कुमार कर	Energy Transition	IIFM, Bhopal	20 Nov 2024

सम्मान और पुरस्कार

क्रम संख्या	संकाय सदस्य का नाम	पुरस्कार का विवरण
1.	डॉ. श्रवण कुमार त्रिवेदी	Best Paper Award (IIM Lucknow)

पत्रिकाओं के संपादकीय बोर्डों पर संकाय सदस्य

क्रम संख्या	संकाय सदस्य का नाम	पद (संपादक/सदस्य)	पत्रिका का नाम
1.	प्रो. संजय कुमार कर	संपादकीय बोर्ड सदस्य	Energy Research & Social Science

डिज़ाइन और विकास गतिविधियाँ

क्रम संख्या	विवरण (बुनियादी ढांचा, उपकरण, आदि)	मूल्य (लाख रुपये में)
1	Business Analytics LAB	50 Lakhs
2	Software's	20 Lakhs

पेटेंट क्षेत्र

क्रम संख्या	संकाय सदस्य का नाम	पेटेंट शीर्षक
1.	डॉ. रोहित बंसल	The Solar-Powered Plant & Soil Health Monitoring System

अनुसंधान एवं परामर्श

क्रम संख्या	शीर्षक	अवधि	फंडिंग एजेंसी	राशि (लाख रुपये में)
1	Understanding the behavioural determinants of Robo-advisory financial services adoption in Saudi Arabia	24 Months	Saudi Electronic University, Jeddah	15 Lakhs
2	The Effect of Demographic Factors on Risk Tolerance: A case Study for the Kingdom of Saudi	24 Months	Saudi Electronic University, Jeddah	20 Lakhs
3	A Critical Assessment and Socio-economic Impact of Ayushman Bharat Pradhan Mantri Jan Arogya Yojana In the Amethi District, Uttar Pradesh	8 Months	ICSSSR New Delhi	06 Lakhs
4	The empirical study of Hydrogen Fuel Cell Vehicle adoption in Saudi Arabia,	24 Months	Saudi Electronic University, Jeddah	18.5 Lakhs
5	The adoption of Solar Energy in Amethi and Raebareli Districts	12 Months	ICSSR, New Delhi	13.5 Lakhs

औद्योगिक परामर्श परियोजनाएँ

क्र.सं.	संकाय सदस्य का नाम	शीर्षक	उद्योग	राशि (लाख रुपये में)
1	डॉ. रोहित बंसल	A study on adoption of advanced biofuels in India: A Focus on Bioethanol	आईओसीएल	7 Lakhs
2	डॉ. रोहित बंसल	A study on hydrogen industry competitiveness in india: Role of North-eastern states	ओआईएल	9.79 Lakhs

रेफरीड अंतर्राष्ट्रीय पत्रिकाएँ:

1. Roy, A. D., Kumar, P., Jena, D., & Trivedi, S. K. (2024). Decoding Sustainable LPG: A Topic Modeling Study on Emerging Patterns and Practices. *Academy of Marketing Studies Journal*, *28*(2).
2. Trivedi, S. K., Roy, A. D., Kumar, P., Jena, D., & Sinha, A. (2024). Prediction of consumers refill frequency of LPG: A study using explainable machine learning. *Heliyon*, *10*(1).

3. Yadav, S. S., Kar, S. K., & Trivedi, S. K. (2024). Investigating emerging trends in sustainable fashion research: topics, challenges, strategies, and future directions. *IEEE Transactions on Engineering Management*, *71*, 5600-5615.
4. Trivedi, S. K., Singh, A., Irfan, M., & Patra, P. (2024). Energy transition, the next hotspot of energy research: a study using topic modeling. *IEEE transactions on engineering management*, *71*, 5829-5846.
5. Trivedi, S. K., Chalapathi, D. S., Srivastava, J., Singh, S., & Deb Roy, A. (2024). Insights on emotional labour research: a topic modelling approach. *Global Knowledge, Memory and Communication*.
6. Singh, A., Trivedi, S. K., Vishnu, S., T, H., & Zhang, J. Z. (2024). Investigating various cryptocurrency research trends: an analysis employing text mining and topic modeling. *Global Knowledge, Memory and Communication*.
7. Trivedi, S. K., Srivastava, J., Patra, P., Singh, S., & Jena, D. (2024). Recognize and thrive: predicting employees' satisfaction towards fairness in reward and recognition system using explainable machine learning and text mining. *Global Knowledge, Memory and Communication*.
8. Singh, S., Awasthi, K., Patra, P., Srivastava, J., & Trivedi, S. K. (2024). Sustainable HRM the next hotspot for management research? A study using topic modelling. *International Journal of Organizational Analysis*, *32*(9), 1957-1981.
9. Trivedi, S. K., Patra, P., Srivastava, P. R., Zhang, J. Z., & Zheng, L. J. (2024). What prompts consumers to purchase online? A machine learning approach. *Electronic Commerce Research*, *24*(4), 2953-2989.
10. Verma, P. K., Trivedi, S. K., & Biswas, S. (2025). Exploring trends and gaps in sustainable e-library research: a text mining analysis. *Digital Library Perspectives*, *41*(2), 311-345.
11. Trivedi, S. K., Yadav, S. S., Awasthi, K., & Singh, S. (2025). Driving sustainable consumption of energy-saving appliances: an in-depth qualitative text analysis of consumer perceptions. *Smart and Sustainable Built Environment*.
12. Sidhartha Harichandan, Sanjay Kumar Kar, Rajnandan Patnaik; Sustainable supply chain in green hydrogen industry in India using SAP-LAP and paradox framework. *International Journal of Energy Sector Management* 2025; https://doi.org/10.1108/IJESM-09-2024-0043
13. Shantanu Gupta, Sher Singh Yadav, Sanjay Kumar Kar, Sidhartha Harichandan; Factors influencing the purchase intention of ethanol blended fuel in India: a sustainable cities perspective. *Journal of Advances in Management Research* 2025; https://doi.org/10.1108/JAMR-03-2024-0082
14. Sher Singh Yadav, Sanjay Kumar Kar, Influence of religious value and minimalism on repurchase intention of sustainable fashion: A combined PLS-SEM and NCA approach, Journal of Cleaner Production, Volume 486, 2025, 144585, ISSN 0959-6526, https://doi.org/10.1016/j.jclepro.2024.144585.
15. Harichandan, S., Kar, S.K., Kumar, A. (2024). A Comprehensive Review of Bitcoin's Energy Consumption and Its Environmental Implications. In: Maglaras, L.A., Das, S., Tripathy, N., Patnaik, S. (eds) Machine Learning Approaches in Financial Analytics. Intelligent Systems Reference Library, vol 254. Springer, Cham. https://doi.org/10.1007/978-3-031-61037-0_12
16. Sidhartha Harichandan, Sanjay Kumar Kar; An empirical study on technology readiness level of industries to use green hydrogen in India: role of policy interventions. *International Journal of Energy*

Sector Management 18 November 2024; 18 (6): 2115–2140. https://doi.org/10.1108/IJESM-01-2024-0011

17. Selecting E-bikes using a Multi-Criteria Integrated Analytic Hierarchy Approach for Sustainable Transportation Option R Bansal, Y Ansari, N Gupta, M Sharma, Global Transitions
18. Investor sentiment and its implication on global financial markets: a systematic review of literature, PK Maurya, R Bansal, AK Mishra
19. An in-depth examination of the financial ratios of metals and mining companies in India, R Bansal, S Sinha, M Kaur, Journal of Management and Science 15 (1), 83-101
20. Robo-advisory financial services and the dynamics of new innovation in Saudi Arabia, Y Ansari, R Bansal, Journal of Open Innovation: Technology, Market, and Complexity 10 (4), 100397
21. Dynamic connectedness among market volatilities: a perspective of COVID-19 and Russia-Ukraine conflict, PK Maurya, R Bansal, AK Mishra, Studies in Economics and Finance 41 (5), 1119-1140
22. An empirical analysis of Saudi Arabian women's intentions to adopt hydrogen fuel cell cars, Y Ansari, R Bansal, SK Kar, Transportation Research Interdisciplinary Perspectives 28, 101269
23. Exploring the complex dynamics: Examining the influence of deviant personas in online gambling, G Malik, D Singh, R Bansal, Journal of Gambling Studies 40 (3), 1271-1294
24. The Energy Market: Transformation, Privatization, and Diversification, R Bansal, R Verma, S Gupta, The South , Asian Energy Corridor, 143-15
25. Modeling Factors for Consumer Purchase Intention towards Handicraft Products: A TISM Approach; R Choudhary, S K Mishra; Academy of Marketing Studies Journal, 29 (1), 2025.
26. The Indian Energy and Emission Outlook: A Case for Solar Energy; B R Pradhan, S K Mishra; Journal of Informatics Education and Research, 5 (1), 2025.
27. Electricity Demand Dynamics in India & Policy Recommendations for Sustainable Electricity Availability Based on Solar Energy; B R Pradhan, S K Mishra; European Economic Letters, 15 (1), 2025
28. Prediction of consumers refill frequency of LPG: A study using explainable machine learning.Trivedi, S. K., Roy, A. D., Kumar, P., Jena, D., & Sinha, A.; Heliyon, 10(1), e23466., 2024
29. Maintenance in Aviation Enabled by Industry 4.0 Technologies: Exploring the Current Research Trends Using a Topic Modeling Approach; Rath, B., Jha, K. K., Padhy, R., & Jena, D.; International Journal of Productivity and Performance Management, Dec. 2024
30. Crack Spread Forecasting for Supply Chain Optimization – A Hybrid Model Using Time Series and Deep Learning with Bayesian Optimizations"; Kumar, P., Jena, D., Kumar Trivedi, S., Padhy, R., & Deb Roy, A.; Academy of Marketing Studies Journal 28, no. 3 (2024)
31. Tripathy, R. K. and Srivastava. K., (2025) Optimizing Waste-to-Energy Ventures in India: Best Value Procurement as a Strategic Imperative, published in the Journal of European Economic Letters : ISSN 2323-5233 Vol 14, Issue 3 doi.org/10.52783/eel.v14i3.1766
32. Tripathy, R. K. and Srivastava. K., Navigating the Circular Economy in Sustainable Development: A Creative Framework based on People First PPP for Waste-to-Energy Projects in India, published in Recent Trends in Engineering and Science for Resource Optimization and Sustainable Development – Prof. (Dr.) Dorota Jelonek et al. (eds) © 2024 Taylor & Francis Group

33. Chaudhary, E., Srivastava, K (2025) The drivers and deterrents of collaborative consumption in India: A qualitative approach, Journal of Global Responsibility (DOI: 10.1108/JGR-01-2024-0003)

34. Pal, D., Srivastava, K. et al (2024), Sensory Marketing: Mediating role of hedonic emotions between multisensory experiences and mall patronage intention, *Asia Pacific Journal of Marketing and Logistics (2025) 37 (1): 80–98.*

35. Srivastava, K. and Pal, D. (2024), "Importance of AI attributes in Indian retail stores: a conjoint analysis approach", *International Journal of Retail & Distribution Managemen*t, Vol. 52 No. 3,pp. 355-371.

36. Pal, D. and Srivastava, K. (2024), "Consumer patronage intention: role of multi-sensory and atmospheric experiences in retail", *International Journal of Retail & Distribution Management* 52 (2): 240–258.

विभाग/केंद्र में अन्य गतिविधियाँ:

विभाग/केंद्र में भारतीय संकाय का दौरा:

क्र.सं.	संकाय सदस्य का नाम	दौरे का उद्देश्य	तिथि और स्थान
1	डॉ. रोहित बंसल	Research Collaboration	02 June 2025, MN IT Allahabad
2	डॉ. रोहित बंसल	Research Collaboration	11 July 2025, HAL, Korba
3	डॉ. रोहित बंसल	Research Collaboration	10 July 2025, GTU Ahmedabad

अध्याय-10

कंप्यूटर विज्ञान एवं इंजीनियरिंग विभाग

स्थापना का वर्ष: 2020

विभाग/केंद्र के प्रमुख/समन्वयक/प्रभारी: डॉ. सुषम विश्वास।

विभाग/केंद्र का संक्षिप्त परिचय:

राजीव गांधी इंस्टीट्यूट ऑफ पेट्रोलियम टेक्नोलॉजी (आरजीआईपीटी) में कंप्यूटर विज्ञान और इंजीनियरिंग विभाग (सीएसई) कंप्यूटर विज्ञान और इसके अनुप्रयोगों में शिक्षा और अनुसंधान में उत्कृष्टता को बढ़ावा देने के लिए समर्पित है। विभाग की स्थापना जुलाई 2024 में की गई थी और इसका उद्देश्य उच्च कुशल पेशेवरों और शोधकर्ताओं को तैयार करना है जो तेजी से विकसित हो रहे ऊर्जा और प्रौद्योगिकी क्षेत्रों की मांगों को पूरा कर सकें। विभाग कंप्यूटर विज्ञान और इंजीनियरिंग में स्नातक और स्नातकोत्तर कार्यक्रमों की एक श्रृंखला प्रदान करता है, जो छात्रों को एक मजबूत सैद्धांतिक नींव और व्यावहारिक कौशल से लैस करने के लिए डिज़ाइन किया गया है। उद्योग के रुझान और तकनीकी प्रगति के साथ तालमेल बनाए रखने के लिए पाठ्यक्रम को नियमित रूप से अद्यतन किया जाता है। सीएसई विभाग कृत्रिम बुद्धिमत्ता, मशीन लर्निंग, क्लाउड कंप्यूटिंग, फॉग कंप्यूटिंग, एज कंप्यूटिंग, साइबर सुरक्षा आदि जैसे विभिन्न डोमेन में अत्याधुनिक अनुसंधान पर जोर देता है। विभाग के पास उच्च योग्य संकाय सदस्यों की एक टीम है जो गुणवत्तापूर्ण शिक्षा प्रदान करने और छात्रों को सलाह देने के लिए प्रतिबद्ध है। उनकी विशेषज्ञता विशेषज्ञताओं की एक विस्तृत श्रृंखला तक फैली हुई है, जो छात्रों के लिए एक व्यापक सीखने का अनुभव सुनिश्चित करती है। शिक्षाविदों के अलावा, विभाग छात्रों को विभिन्न सह-पाठ्यचर्या और पाठ्येतर गतिविधियों में भाग लेने के लिए प्रोत्साहित करता है। इनमें तकनीकी कार्यशालाएँ, हैकथॉन, सेमिनार और सम्मेलन शामिल हैं, जो छात्रों को विकसित करने और उनकी समस्या-समाधान और नेतृत्व कौशल को बढ़ाने में मदद करते हैं।

अनुसंधान के प्रमुख क्षेत्र:

जियोइंफॉर्मेटिक्स, LiDAR, AR/VR, UAV -IoT एनालिटिक्स, AI/ML, सूचना सुरक्षा, ब्लॉकचेन, इमेज प्रोसेसिंग और रियल-टाइम शेड्यूलिंग, क्लाउड कंप्यूटिंग, मेडिकल इमेज विश्लेषण, फॉग कंप्यूटिंग, क्राउडसोर्सिंग, टीम गठन और संसाधन आवंटन, सॉफ्टवेयर परिभाषित नेटवर्किंग, मशीन लर्निंग/डीप लर्निंग एप्लीकेशन, सोशल नेटवर्क विश्लेषण के लिए ग्राफ न्यूरल नेटवर्क

आधारभूत संरचना:

क्र. सं.	विवरण	संख्या
1	कक्षाओं की संख्या	3
2	व्याख्यान कक्षों की संख्या	3
3	प्रयोगशाला की संख्या	4
4	विभाग/केंद्र/केंद्र में छात्रों के लिए उपलब्ध कंप्यूटरों की संख्या	250

शैक्षणिक कार्यक्रम की पेशकश की

सीएसई विभाग द्वारा प्रस्तावित कार्यक्रमों की सूची

1. कंप्यूटर साइंस और इंजीनियरिंग में बी.टेक
2. सूचना प्रौद्योगिकी में बी.टेक
3. बी.टेक. कंप्यूटर विज्ञान एवं डिजाइन इंजीनियरिंग में
4. कंप्यूटर विज्ञान एवं इंजीनियरिंग और आर्टिफिशियल इंटेलिजेंस में आईडीडी

नए पाठ्यक्रम शुरू किए गए:

क्रम संख्या	कोर्स कोड	कोर्स का नाम	कोर्स क्रेडिट
1	CS352	UX/UI Design	6
2	CS352L	UX/UI Design Laboratory	2
3	CS346	Robotics Design & IoT	9

रोल पर छात्र

क्रम संख्या	कार्यक्रम	I वर्ष	II वर्ष	III वर्ष	IV वर्ष
1.	बी.टेक	167	156	153	84
2.	आईडीडी	40	42	36	25
3.	पीएच.डी. (संस्थान फेलोशिप के अंतर्गत)	2	1	0	2
6.	पीएच.डी. (प्रायोजित श्रेणी के अंतर्गत)	0	2	0	0

उन छात्रों/विद्वानों के नाम जिन्होंने विदेश में या भारत में सम्मेलनों/कार्यशालाओं/सेमिनारों और संगोष्ठियों में भाग लिया:

वित्तीय सहायता

क्रमांक	छात्र का नाम	रोल नंबर	सम्मेलन/संगोष्ठी/संगोष्ठी/कार्यशाला	दिनांक एवं स्थान	वित्तीय सहायता से
भारत					
1	Devansh Goyal	21CS3015	15th International Conference on Computing Communication and Networking Technologies (ICCCNT)	24/06/2024, IIT Mandi	RGIPT

संस्थान के बाहर पुरस्कार एवं पुरस्कार प्राप्त करने वाले विद्यार्थियों/विद्वानों के नाम:

क्रम संख्या	छात्र का नाम	रोल नंबर	पुरस्कार का नाम	तिथि और स्थान	पुरस्कार दिया गया
1	खुशी कालरा	22CS3035	Smart India Hackathon 2024 (1 Lakh Rupees)	Chandigarh College of Engineering, Jhanjeri, 11-15/12/2024	Ministry of Education
2	ऋषित तिवारी	22CS3050	Smart India Hackathon 2024 (1 Lakh Rupees)	Chandigarh College of Engineering, Jhanjeri, 11-15/12/2024	Ministry of Education
3	ऋषि जैन	22IT3038	Smart India Hackathon 2024 (1 Lakh Rupees)	Chandigarh College of Engineering, Jhanjeri, 11-15/12/2024	Ministry of Education
4	रोहित शर्मा	22IT3040	Smart India Hackathon 2024 (1 Lakh Rupees)	Chandigarh College of Engineering, Jhanjeri, 11-15/12/2024	Ministry of Education
5	स्वायंशु राउत	22IT3057	Smart India Hackathon 2024 (1 Lakh Rupees)	Chandigarh College of Engineering, Jhanjeri, 11-15/12/2024	Ministry of Education
6	शिखर	22IT3046	Smart India Hackathon 2024 (1 Lakh Rupees)	Chandigarh College of Engineering, Jhanjeri, 11-15/12/2024	Ministry of Education
7	अंशू प्रिया	22CS2020	Smart India Hackathon 2024 (1 Lakh Rupees)	IIT Kharagpur, 11-15/12/2024	National Technical Research Organisation (NTRO)
8	-आदित्य पांडे	22CD3004	Smart India Hackathon 2024 (1 Lakh Rupees)	IIT Kharagpur, 11-15/12/2024	National Technical Research Organisation (NTRO)
9	सम्मिंगा साईनाथ राव	21CS2018	Smart India Hackathon 2024 (1 Lakh Rupees)	KCG College of Technology, Chennai, 11-15/12/2024	Ministry of Communication
10	सन्नी कुमार	21CS3066	Smart India Hackathon 2024 (1 Lakh Rupees)	KCG College of Technology, Chennai, 11-15/12/2024	Ministry of Communication
11	देबप्रतिम सोम	21CS3065	Smart India Hackathon 2024 (1 Lakh Rupees)	KCG College of Technology, Chennai, 11-15/12/2024	Ministry of Communication
12	पुलकित चटवाल	21CS2027	Smart India	KCG College of	Ministry of

			Hackathon 2024 (1 Lakh Rupees)	Technology, Chennai, 11-15/12/2024	Communication
13	आदित्य बख्शी	21CS2001	Smart India Hackathon 2024 (1 Lakh Rupees)	KCG College of Technology, Chennai, 11-15/12/2024	Ministry of Communication
14	नंदिनी भल्ला	22CS2002	Smart India Hackathon 2024 (1 Lakh Rupees)	KCG College of Technology, Chennai, 11-15/12/2024	Ministry of Communication

दीक्षांत समारोह/संस्थान दिवस पुरस्कार जीतने वाले विद्वानों/छात्रों के नाम:

क्रम संख्या	छात्र का नाम	रोल नंबर	पुरस्कार का नाम	द्वारा पुरस्कार प्रदान किया गया
1	आस्था शैला		निदेशक पदक	अध्यक्ष, संचालक मण्डल

विदेशी इंटर्नशिप के लिए गए छात्रों/विद्वानों के नाम:

क्रम संख्या	छात्र का नाम	रोल नंबर	संगठन का नाम	इंटर्नशिप का स्थान	देश	अवधि
1.	दीपांशु गोयल	20CS3054	MITACS	UNB	Canada	8 Month
2.	अंकित शर्मा		MITACS	UNB	Canada	8 Month

संकाय और उनकी गतिविधि

संकाय और उनकी विशेषज्ञता के क्षेत्र:

क्रम संख्या	नाम, योग्यताएं, कर्मचारी संख्या	पीएचडी डिग्री प्रदान करने की तिथि	विभाग में शामिल होने की तिथि	विशेषज्ञता के प्रमुख क्षेत्र (अधिकतम 3)
एसोसिएट प्रोफेसर				
1	डॉ. सुषम विश्वास पीएच.डी. (आईआईटी कानपुर) एम्प. आईडी: **61**	June 2011	July 2019	Spatial Analytics Image Processing, LiDAR Remote Sensing, AI/ML UAV AR/VR-GIS, Digital Twin, Quantum Computing
सहायक प्रोफेसर				
1	डॉ. गार्गी श्रीवास्तव पीएच.डी. (आईआईटी बी.एच.यू.) ईएमपी आईडी: **0245**	January 2020	June 2021	Computer Vision, Image Processing, Artificial Intelligence
2	डॉ. कालका दुबे पीएच.डी. (आईआईटी रूड़की) कर्मचारी आईडी: **0289**	July 2021	May 2022	Cloud Computing, Fog Computing, IoT

3	डॉ. पल्लबी सैकिया पीएच.डी. (आईआईटी गुवाहाटी) कर्मचारी आईडी: 0292	August 2020	July 2022	Artificial Intelligence, Machine Learning, Multi-sensor Data Analytics
4	डॉ. आकाश यादव पीएच.डी. (आईआईटी पटना) कर्मचारी आईडी:0299	December 2022	March 2023	Algorithms, Computer Networks, IOT Crowdsourcing
5	डॉ. निर्भय कुमार टैगोर पीएच.डी. (आईआईटी बी.एच.यू.) कर्मचारी आईडी: 0303	April 2022	May 2023	Computer Vision, AI/ML, Image Processing
6	डॉ. संतोष कुमार मिश्र पीएच.डी. (आईआईटी पटना) कर्मचारी आईडी:0309	December 2022	August 2023	Natural Language Processing, Artificial Intelligence, Machine Learning
7	डॉ. मनीष भानु पीएचडी (आईआईटी पटना) कार्यालय आईडी: 0315	June 2023	June 2024	Machine Learing/Deep Learing, Traffic Prediction, Crisis Informatics, Fake News Detection, Explainable AI
विजिटिंग/सहायक संकाय				
1	श्री राजीव सिन्हा	NA	August 2022	Business Development, Vendor Management, Project Management
2	श्री सुधीर अग्रवाल	NA	August 2022	Strategic Programme, Policy-matters

क्र.सं.	नाम, योग्यता	पदनाम, कर्मचारी क्रमांक	विभाग में नियुक्ति की तिथि
1.	नेहा पांडे (एम.फिल)	सहायक ग्रेड-1	07/01/2022
2.	शिवांशु मिश्रा (एमसीए)	तकनीशियन ग्रेड-1	16/01/2024

शैक्षणिक संस्थानों और सार्वजनिक क्षेत्र के उपक्रमों में संकाय सदस्यों द्वारा भाग लिए जाने वाले अल्पकालिक पाठ्यक्रम/कार्यशालाएं/सेमिनार/संगोष्ठी/सम्मेलन/प्रशिक्षण कार्यक्रम:

क्रम संख्या	संकाय सदस्य का नाम	शीर्षक	अवधि और स्थान
सेमिनार/संगोष्ठी/सम्मेलन			
1.	डॉ. आकाश यादव	Gian Course on Advances in Quantum Computing Application	Dec 2024 (2 Weeks)

शैक्षणिक और व्यावसायिक समाजों की फैलोशिप:

क्रम संख्या	संकाय सदस्य का नाम	फैलोशिप का विवरण
1	डॉ. गार्गी श्रीवास्तव	IEEE
2	डॉ. गार्गी श्रीवास्तव	ACM
3	डॉ. पल्लबी सैकिया	IEEE
4	डॉ. पल्लबी सैकिया	ACM
5	डॉ. सुषम विश्वास	ISRS,ACM

संकाय सदस्यों द्वारा लिखित/सह-लेखक पुस्तकें, मोनोग्राफ:

क्र. सं.	लेखक/सह-लेखक का नाम	शीर्षक	प्रकाशक
1	गार्गी श्रीवास्तव और सजल अग्रवाल	Deep learning – enabled optical sensors.	CRC Press
2	मोहित कुमार, गौतम श्रीवास्तव, आशुतोष कुमार सिंह, कालका दुबे	AI-Based Advanced Optimization Techniques for Edge Computing	John Wiley & Sons
3	टी बिसेन, ए शैला, एस बिस्वास	Predicting Oil Spills in Real-Time: A Machine Learning and AIS Data-Driven Approach	Networking and Parallel/Distributed Computing Systems: Volume 18, 99-115: Springer Nature
4	ए श्रीवास्तव, एस बिस्वास	Computation of Environmental Deterioration by Observation of Annual NDVI Changes	Advances in Computational Intelligence and Its Applications Year: 2024: CRC Press
5	ए गुप्ता, एम पडसाला, डी जानी, टी बिसेन, ए शैला, एस बिस्वास	From Above and Beyond: Decoding Urban Aesthetics with the Visual Pollution Index	Published in: Software Engineering, Artificial Intelligence, Networking and Parallel, Year: 2024. : Springer Nature

पेटेंट क्षेत्र

क्र. सं.	संकाय सदस्य का नाम	पेटेंट का शीर्षक
1	गार्गी श्रीवास्तव	Copyright - Queazy SW-20179/2025
2	आकाश यादव	Copyright- ClassCapture SW-20190/2025-CO

अनुसंधान एवं परामर्श

प्रायोजित अनुसंधान परियोजनाएँ

क्रम संख्या	शीर्षक	अवधि	फंडिंग एजेंसी	राशि (लाख रुपये में)	समन्वयक
1	Near Real-Time Multi-Sensor Geospatial Data Processing Using Quantum Machine Learning for Forest Fire Hazard Management	8 Months	MITACS	24,000 Dollar	Dr. Susham Biswas
2	Development of a Human-Machine Interfacing Platform for Remote Operation of Armed Quadruped Robots	14 Months	Army Technology Board, DRDO	36.5 Lakh (accepted)	Mr. Ayush Dwivedi, Dr. Susham Biswas, Dr. Akash Yadav, Dr. Santosh Mishra, Dr. Nirbhay K Tagore
3	Qualitative and Quantitative Modeling of Human Behavior in Cybersecurity Using Behavioral Game Theory	12 months	ICSSR	15 Lakh	Dr. Susham Biswas, Dr. Saptarshi Ghosh, Dr. Ankur Pandey

औद्योगिक परामर्श परियोजनाएँ

क्र.सं.	संकाय सदस्य का नाम	शीर्षक	उद्योग	राशि (लाखों रुपये में)
1	डॉ. सुषम बिस्वास	3D Visualization and Maintenance Analytics Using LiDAR and AR/VR Technologies	Voxel3D Tech	4.5 Lakh (accepted)

अनुसंधान प्रकाशन:

क्र.सं.		सं.
1	रेफरीड अंतर्राष्ट्रीय पत्रिकाओं में प्रकाशित शोधपत्रों की कुल संख्या	5
2	राष्ट्रीय सम्मेलनों में प्रस्तुत शोधपत्रों की कुल संख्या	5
3	अंतर्राष्ट्रीय सम्मेलनों में प्रस्तुत शोधपत्रों की कुल संख्या	13

रेफरीड अंतर्राष्ट्रीय पत्रिकाएँ:

1. Raj, Hritu, and Gargi Srivastava. "A novel data augmentation strategy for gas leak detection and segmentation using Mask R-CNN and bit plane slicing in chemical process environments." Computers & Chemical Engineering (2025): 109407.
2. Steinbach, Thomas J., et al. "Inter-Rater and Intra-Rater Agreement in Scoring Severity of Rodent Cardiomyopathy and Relation to Artificial Intelligence–Based Scoring." Toxicologic pathology 52.5 (2024): 258-265.
3. Tagore, N.K., Medi, P.R. and Chattopadhyay, P., 2024. Deep pixel regeneration for occlusion reconstruction in person re-identification. Multimedia Tools and Applications, 83(2), pp.4443-4463.
4. Kumar, Mohit, Jitendra Kumar Samriya, Kalka Dubey, and Sukhpal Singh Gill. "QoS-aware resource scheduling using whale optimization algorithm for microservice applications." Software: Practice and Experience 54, no. 4 (2024): 546-565.
5. A Saxena, JPGupta, J K Tiwary, A Kumar, S Sharma, G Pandey, Susham Biswas, and K R Chaturvedi. Innovative Pathways in Carbon Capture: Advancements and Strategic Approaches for Effective Carbon Capture, Utilization, and Storage-(AI/ML approach). Sustainability, 2024, *16*(22), 10132; https://doi.org/10.3390/su162210132

अंतर्राष्ट्रीय सम्मेलनों की कार्यवाही

1. Jain, Rishi, Swayanshu Rout, and Gargi Srivastava. "ChemVR-AI: An Immersive Virtual Reality Laboratory with Pedagogical Agents." Adjunct Proceedings of the 27th International Conference on Mobile Human-Computer Interaction. 2025.
2. Raj, H. and Srivastava, G. (2025). An OGI Based Unattended Natural Gas Leak Detection System by Utilizing the Power of Machine Learning and Computer Vision. In Proceedings of the 14th International Conference on Pattern Recognition Applications and Methods -

ICPRAM; ISBN 978-989-758-730-6; ISSN 2184-4313, SciTePress, pages 823-830. DOI: 10.5220/0013345600003905

3. Chowdhury, Pathikreet, and Gargi Srivastava. "Enhanced Classification and Segmentation of Brain Tumors in MRI Images Using Custom CNN and U-Net Models with XAI." International Conference on Pattern Recognition. Cham: Springer Nature Switzerland, 2024.
4. Gupta, Advait, et al. "From Above and Beyond: Decoding Urban Aesthetics with the Visual Pollution Index." Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing: Volume 17. Cham: Springer Nature Switzerland, 2024. 101-119.
5. Singh, M.P., Bisht, N., Choudhary, M., Goswami, A. and Tagore, N.K., 2025. A Web-Based Supervised Machine Learning Model for Air Quality Index and Respiratory Care Prediction. Procedia Computer Science, 258, pp.1747-1756.
6. Jhalke, R., Sharma, M., Tagore, N.K., Kumar, R. and Singh, M.P., 2024, December. Deep Learning-Driven Person Re-identification: Leveraging Color Space Transformations. In International Conference on Distributed Computing and Intelligent Technology (pp. 225-239). Cham: Springer Nature Switzerland.
7. Sharma, M., Tagore, N.K., Jaiswal, A.K. and Singh, M.P., 2025, February. Integrating Attention-Driven Color Cues and Temporal Dynamics for Advanced Person Re-identification. In International Conference on Information Systems and Management Science (pp. 228-238). Cham: Springer Nature Switzerland.
8. Dubey, Kalka, Aman Raj, Abhishek Kumar Singh, and Satyam Kumar Tripathi. "An Efficient Data Management Policy For IoT Application with Tangential Data Control System in a Cloud Fog Environment." In 2024 15th International Conference on Computing Communication and Networking Technologies (ICCCNT), pp. 1-6. IEEE, 2024.
9. Sumit M, Akash Y, Susham Biswas, 2024, Role of Sum of Objectives in Non-Dominated Sorting to Reduce Dominance Comparisons. TENCON IEEE REGION 10 CONFERENCE, 2024
10. Susham Biswas, Ankit Sharma, Hritu Raj and Surjo Dey, 2024, Automated Structural Health Monitoring of Urban Buildings Using Terrestrial Laser Scanner (TLS) Data: A Deformation Analysis Approach. TENCON IEEE REGION 10 CONFERENCE, 2024

11. Ankit S, Hrituraj, Surjo D, S Biswas, 2024, Automated Detection and Analysis of Minor Deformations in Flat Walls Due to Railway Vibrations Using LIDAR and Machine Learning, IEEE
12. Mishra, Santosh Kumar. "Multi-news summarization using multi-objective differential evolution framework." In *2024 15th International Conference on Computing Communication and Networking Technologies (ICCCNT)*, pp. 1-7. IEEE, 2024.
13. Mishra, Santosh Kumar, Soham Chakraborty, Sriparna Saha, and Pushpak Bhattacharyya. "HinglishCap: A Code Mixed Hindi-English Image Captioning Framework." In International Conference on Neural Information Processing, pp. 357-370. Singapore: Springer Nature Singapore, 2024.

राष्ट्रीय सम्मेलनों की कार्यवाही

1. Integrating IoT, UAVs, and AI/ML-DL for Urban Smart Applications and Digital Twin. Development: A Modern Perspective, A.Yadav, Biswas S, Sharma A., Shukla S., Jena A. National Seminar on Supply Chain Digital Twin, ICSSR, IIM Sambalpur, 31st Jan -1st February, 2025.
2. Computational Challenges in Designing a Wild Forest Fire Monitoring and Prediction System: Leveraging Satellite, UAV, IoT Data in GIS/Unity with Quantum Machine Learning; Sharma A. Biswas S, , A.Yadav, Shukla S., Jena A. National Seminar on Supply Chain Digital Twin, ICSSR, IIM Sambalpur, 31st Jan -1st February, 2025.
3. Leveraging Digital Twin Technology for Wildland Forest Fire Monitoring and Management: Integrating GIS, UAV, and IoT-Based Data; Sharma A. Biswas S, , A.Yadav, Shukla S., Jena A. National Seminar on Supply Chain Digital Twin, ICSSR, IIM Sambalpur, 31st Jan -1st February, 2025
4. Macro Digital Twin for Managers: Simplifying Complexity in Integrated System Management; Biswas S, Sharma A., , A.Yadav, Shukla S., Jena A. National Seminar on Supply Chain Digital Twin, ICSSR, IIM Sambalpur, 31st Jan -1st February, 2025.
2. 5. Need for a Digital Twin for Renewable-Powered Hydrogen Supply Chain Management in India; D. Jena, Sharma A. Biswas S, A.Yadav, Shukla S., National Seminar on Supply Chain Digital Twin, ICSSR, IIM Sambalpur, 31st Jan -1st February, 2025

5 Articles with maximum no. of Citations in last 5 years

1. Pallabi Saikia, Rashmi Dutta Baruah, Sanjay Kumar Singh, Pradip Kumar Chaudhuri. “Artificial Neural Networks in the Domain of Reservoir Characterisation: A Review from Shallow to Deep Models.” Computers & Geosciences, Elsevier, Volume 135(2), 104357, February 2020. [Citation: 127]
3. Saptarshi Sengupta, Sanchita Basak, Pallabi Saikia, Sayak Paul, Vasilios Tsalavoutis, Vadlamani Ravi, and Alan Peters.“A Review of Deep Learning with Special Emphasis on Architectures, Applications and Recent Trends.”, Knowledge Based Systems, Elsevier, Volume 194(4), 105596, 2020. [Citation: 374]
4. Dubey, Kalka, and Subhash Chander Sharma. "A novel multi-objective CR-PSO task scheduling algorithm with deadline constraint in cloud computing." Sustainable Computing: Informatics and Systems 32 (2021): 100605. [Citation: 105]
5. Dubey, Kalka, S. C. Sharma, and Mohit Kumar. "A secure IoT applications allocation framework for integrated fog-cloud environment." Journal of Grid Computing 20, no. 1 (2022): 5. [Citation: 58]
6. Bajpai, Sushant, Nehil Shreyash, Sukriti Singh, Amir Rauf Memon, Muskan Sonker, Saurabh Kr Tiwary, and Susham Biswas. "Opportunities, challenges and the way ahead for carbon capture, utilization and sequestration (CCUS) by the hydrocarbon industry: Towards a sustainable future." Energy reports 8 (2022): 15595-15616. [Citation: 56]

अध्याय-11
गणितीय विज्ञान विभाग

*स्थापना का वर्ष: **2021***

*विभाग/केंद्र के प्रमुख/समन्वयक/प्रभारी: प्रो. चंचल कुंडू **12** जून **2021** से*

आधारभूत संरचना

क्र. सं.	विवरण	संख्या
1	कक्षाओं की संख्या	01 (AB/LR2)
3	प्रयोगशाला की संख्या	02 (CCIS common labs. For all)
4	विभाग/केंद्र/केंद्र में छात्रों के लिए उपलब्ध कंप्यूटरों की संख्या	14 (For PhD students)

रोल पर छात्र:

क्रम संख्या	कार्यक्रम	I वर्ष	II वर्ष	III वर्ष	IV वर्ष	V वर्ष और उससे ऊपर
1.	बी.टेक	62	61	42	21	
2.	पीएच.डी. (संस्थान फेलोशिप के अंतर्गत)	1	1	4	2	3
3.	पीएच.डी. (प्रोजेक्ट फेलोशिप के अंतर्गत)				1	2

उन छात्रों/विद्वानों के नाम जिन्होंने विदेश में या भारत में सम्मेलनों/कार्यशालाओं/सेमिनारों और संगोष्ठियों में भाग लिया:

क्रमांक	छात्र का नाम	रोल नंबर	सम्मेलन/संगोष्ठी/संगोष्ठी/कार्यशाला	दिनांक एवं स्थान	वित्तीय सहायता
भारत					
1.	कुमार मृत्युंजय	24MA0001 (Scholar)	Numerical Methods for Partial Differential Equations(Workshop)	16/12/2024-27/12/24, IIPE Visakhapatnam	Project P-2230

2.	कुमार मृत्युंजय	24MA0001 (Scholar)	DLSC Workshop 2025	24/03/25-28/03/25, LNMIIT Jaipur	Self
3	हीराबल्लभ खंडूरी	22MA0002 (Scholar)	DLSC Workshop 2025	24/03/25-28/03/25, LNMIIT Jaipur	RSG
4	ज्योति	20BS0007 (Scholar)	5-Day International FDP on Advances in Non-linear Dynamics: Methods and Applications (ANDMA) (Workshop)	11/06/24-15/06/24, VIT-AP University	Self
5	ज्योति	20BS0007 (Scholar)	3rd International Workshop on Advanced Topics in Mathematics (IWATM-2024)	16/12/24-20/12/24, IIIT Naya Raipur	Self
6	शशांक कुमार शुक्ला	21MA0003 (Scholar)	Workshop on Fractal Geometry and Related Fields (WFGRF-2024)	05/04/2024-07/04/2024, IIIT Allahabad	Self
7	शशांक कुमार शुक्ला	21MA0003 (Scholar)	International Conference on Matrix Analysis and Mathematical Modelling (MAMM 2024)	29/11/2024-01/12/2024, NIT Jalandhar	RSG
8	शशांक कुमार शुक्ला	21MA0003 (Scholar)	3rd International Workshop on Advanced Topics in Mathematics (IWATM 2024)	16/12/2024-20/12/2024, IIIT Naya Raipur	Self
9	शशांक कुमार शुक्ला	21MA0003 (Scholar)	Mini-course on Perturbation Theory of Eigenvalues of Matrices (IWM-Mini courses 2025)	11/01/2025-12/01/2025, ISI Delhi	Self
10	पूजा भारती	21MA0101 (Scholar)	International Confernece on Recent Advances in Mathematics and Statistics in the Era of Data Science	18-20/03/2025, CUJ Ranchi	RSG

संस्थान के बाहर पुरस्कार और सम्मान पाने वाले छात्रों/विद्वानों के नाम

क्रम संख्या	छात्र का नाम	रोल नंबर	पुरस्कार का नाम	तिथि एवं स्थान	पुरस्कार प्रदान करने वाला
1	ज्योति	20BS0007	Travel Grant to present a poster	14/02/25, AWM Research Symposium hosted by University of Wisconsin-Madison, USA	National Science Foundation (NSF), USA

संकाय और उनकी गतिविधि

संकाय और उनकी विशेषज्ञता के क्षेत्र:

क्रम संख्या	नाम, योग्यताएं, कर्मचारी संख्या	पीएचडी डिग्री प्रदान करने की तिथि	विशेषज्ञता के प्रमुख क्षेत्र (अधिकतम 3)
आचार्य			
1	चंचल कुंडू, पीएचडी 0009	August 2009	Reliability theory and statistical information theory
सह- आचार्य			
1	मनोज कुमार राजपूत, पीएचडी	August 2012	Numerical Analysis
सहायक आचार्य			
1	सुदीप कुंडू, पीएचडी, **0264**	February 2018	Numerical Analysis, Control theory, Partial Differential Equations
2	गोबिंदा रक्षित पीएचडी, **0264**	August 2020	Functional Analysis Numerical
3	प्रदीप दास, पीएचडी, **0262**	June 2020	Algebraic Geometry, Complex Geometry, Number Theory
4.	सोनिया धामा, पीएचडी, **0216**	December 2020	Dynamical System, Dynamics of Periodic and Generalized Functions, Physics- Informed Neural Networks (PINNs), Quantum Physics- Informed Neural Networks
5	ध्रुबाशीष भट्टाचार्य, पीएचडी, **0306**	August 2021	Statistics, Statistical Theory of Reliability and Life Testing, Inference based on censored data

शैक्षणिक संस्थानों और सार्वजनिक क्षेत्र के उपक्रमों में संकाय सदस्यों द्वारा भाग लिए जाने वाले अल्पकालिक पाठ्यक्रम/कार्यशालाएं/सेमिनार/संगोष्ठी/सम्मेलन/प्रशिक्षण कार्यक्रम:

क्रम संख्या	संकाय सदस्य का नाम	शीर्षक	अवधि और स्थान
सेमिनार/संगोष्ठी/सम्मेलन			
1.1	गोबिंदा रक्षित	National Conference on Computational Geometry, Analysis and Machine Learning (NCCGAML 2025)	18-19 April 2025; ICT Mumbai
2.	गोबिंदा रक्षित	International Conference on Matrix Analysis and Mathematical Modelling (MAMM 2024)	November 29- December 01, 2024; Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab, India
3.	मनोज के राजपूत	2nd International Conference on Recent Advances in Applied Mathematics (RAAM 2024)	July 03-05, 2024 Department of Mathematical Sciences, IIT (BHU)

पत्रिकाओं के संपादकीय बोर्ड

क्र.सं.	संकाय सदस्य का नाम	पद (संपादक/सदस्य)	जर्नल का नाम
1	गोबिंदा रक्षित	Member	Applied and Computational Mathematics (ACM)
2	सोनिया धामा	Editor	Applied and Computational Mathematics (ACM)

अनुसंधान और परामर्श

प्रायोजित अनुसंधान परियोजनाएँ

क्रमांक	शीर्षक	अवधि	वित्तपोषण एजेंसी	राशि (लाखों रुपये में)	समन्वयक
1	Closed Loop Control for Parabolic Type Problems: Theory and Computation	28 Dec 2022-27 Dec 2024	DST SERB	13.2	Sudeep Kundu

एमओयू के तहत अन्य विश्वविद्यालयों के साथ संकाय सदस्यों की भागीदारी

अनुसंधान प्रकाशन:

क्र.सं.		सं.
1	रेफरीड अंतर्राष्ट्रीय पत्रिकाओं में प्रकाशित पत्रों की कुल संख्या	16

रेफरीकृत अंतर्राष्ट्रीय पत्रिकाएँ:

1. Das, P, Juyal, A. and Moody, D., (2025), A note on tangential quadrilaterals, Quaest. Math., 48 (2): 365-375
2. G. Rakshit, Shashank K. Shukla, A. S. Rane. A note on improvement by iteration for the approximate solutions of second kind Fredholm integral equations with Green's kernels. The Journal of Analysis, 33: 1599–1621, (2025). DOI: 10.1007/s41478-025-00882-0
3. Alpesh Kumar, G. Rakshit, Deepak Kumar Yadav and Rajesh Yadav. RBF Based some IMEX finite difference schemes for pricing option under liquidity switching. International Journal of Computer Mathematics, 101(7):768-788, (2024). DOI: 10.1080/00207160.2024.2383757
4. Singh, S. and Kundu, C. (2024), On weighted generalized entropy for double truncated distribution with applications. Communications in Statistics-Theory & Methods, Vol. 53, pp. 3102-3122. (Taylor & Francis Group)
5. Sharma, A. and Kundu, C. (2024), Residual and past varinaccuracy measures. IMA Journal of Mathematical Control and Information, Vol. 41, pp. 539-563. (Oxford University Press
6. Sharma, A. and Kundu, C. (2024), Stochastic properties of varentropy based on residual lifetime. Statistics: A Journal of Theoretical and Applied Statistics, Vol. 58, pp. 1117-1139. (Taylor & Francis Group)
7. Puja Bharti, Soniya Dhama, Martin Bohner, Dynamics beyond bounds: (ω, c) -periodic functions and their impact on delayed population models on time scales, Discrete and Continuous Dynamical Systems-S, 2025.2025, Volume 18, Issue 9: 2586-2621.
8. Puja Bharti, Soniya Dhama, (ω, c)-Asymptotically periodic oscillation of cellular neural networks on time scales with leakage delays and mixed time-varying delays. Neural Network, Volume 185, 2025, 107174.
9. Agrawal D., Soniya Dhama., Kostic M., Abbas, S., Periodicity, stability, and synchronization of solutions of hybrid coupled dynamic equations with multiple delays. Mathematical Methods in the Applied Sciences, Vol. 47, pp. 7616-7636, 2024
10. Manoj Kumar, Soniya Dhama, Faez A Alqarni, Syed Abbas, Khaled A Aldwoah, Mathematical analysis and optimal control of age-structured social interaction model with law enforcement. Mathematical Methods in the Applied Sciences, Volume48, Issue3.
11. Soniya Dhama., Castillo S., Abbas S., Pinto M., Existence and Roughness of Nonuniform Exponential Dichotomies on Time Scales. Qualitative Theory of Dynamical Systems, Vol. 23, pp. 1-36, 2024

12. Bhattacharyya, D., Kundu, D. (2025). On classical inference of a flexible semi-parametric class of distributions under a joint balanced progressive censoring scheme. Applied Stochastic Models in Business and Industry, 41 (1): e2924, DOI: https://doi.org/10.1002/asmb.2924
13. Jyoti, Vikas Maurya, Ankit Singh, Vivek S. Yadav, and Manoj K. Rajpoot, Acoustic and soliton propagation using fully-discrete energy preserving partially implicit scheme in homogeneous and heterogeneous mediums, Computers and Mathematics with Applications, 174, 379-396, 2024
14. Jyoti, Ankit Singh, Vikas Maurya, Vivek S. Yadav, and Manoj K. Rajpoot, Strong Stability Preserving Multiderivative Time Marching Methods for Stiff Reaction-Diffusion Systems, Mathematics and Computers in Simulation, 225, 267-282, 2024
15. S. Kumar, B. Ramcharan, Vivek S. Yadav, Ankit Singh, Y. G. Bhumkar, and Manoj K. Rajpoot, Exploring Acoustic and Sound Wave Propagation Simulations: A Novel Time Advancement Method for Homogeneous and Heterogeneous Media, Advances in Applied Mathematics and Mechanics, 17, 315-349, 2025
16. Ankit Singh, Vikas Maurya, and Manoj K. Rajpoot, Numerical Analysis and Simulation of European Options under Liquidity Shocks: A Coupled Semilinear System Approach with New IMEX Methods, Computers and Mathematics with Applications, 165, 28-38, 2024

5 Articles with maximum no. of Citations in last 5 year

1. Kundu, C., and Singh, S. (2020), On generalized interval entropy. Communications in Statistics- Theory & Methods, Vo. 49, pp. 1989-2007.
2. Kundu, C. (2023), On cumulative residual (past) extropy of extreme order statistics. Communications in Statistics- Theory & Methods, Vol. 52, pp. 5848-5865. (Taylor & Francis Group)
3. Sharma, A. and Kundu, C. (2023), Varentropy of doubly truncated random variable. Probability in the Engineering and Informational Sciences, Vol. 37, pp. 852-871. (Cambridge University Press)
4. P. Sagaut, V. K. Suman, P. Sundaram, Manoj. K. Rajpoot,Y. G. Bhumkar, S. Sengupta, A. Sengupta, T. K. Sengupta, Global Spectral Analysis: Review of Numerical Methods, Computers and Fluids, 261, 105915, 2023
5. V. S. Yadav, N. Ganta, B. Mahato, Manoj. K. Rajpoot, and Y. G. Bhumkar, New time-marching methods for compressible Navier-Stokes equations with applications to aeroacoustics problems, Applied Mathematics and Computation, 419, 126863, 2022
6. Praveen K. Maurya, V. S. Yadav, B. Mahato, N. Ganta, Manoj. K. Rajpoot, and Y. G. Bhumkar, New optimized Implicit-Explicit Runge-Kutta methods with applications to the Hyperbolic Conservation Laws, Journal of Computational Physics, 446, 110650, 2021
7. Vivek S. Yadav, Vikas Maurya, Praveen K. Maurya, and Manoj K. Rajpoot, Novel hybrid compact schemes for stream function–velocity formulation of the incompressible Navier–Stokes equations, Physics of Fluids, 35, 017114, 2023

Any other Information

Review by Dr. Pradeep Das:

1 Mathematical Reviews for American Mathematical Society

2 Reviewer for research papers submitted to special issue of Journal Proceedings of the Jangjeon Mathematical Society (PJMS) & Applications and Applied Mathematics: An International Journal (AA

Review by Sudeep Kundu: Reviewer for the research paper submitted to journal "Nonlinearity"

Review by Dr. D. Bhattacharyya: Reviewed for the Journal of Statistical Computation and Simulation.

Paper Reviewed by Dr. C. Kundu for the following Journals:

- Mathematical Reviews by American Mathematical Society (MR 123629).
- Journal of Inequalities and Applications
- Statistical Papers
- Methodology and Computing in Applied Probability
- Mathematical Methods of Statistics
- Journal of Statistical Theory and Practice

Paper Reviewed Soniya Dhama for the following Journals:

- Chaos, Solitons & Fractals (Elsevier)
- Neurocomputing (Elsevier)
- Neural Networks (Elsevier)
- Journal of Inequalities and Applications (Springer)
- Differential Equations and Dynamical Systems (Springer)
- Mathematical Problems in Engineering (Hindawi)
- Qualitative Theory of Dynamical Systems (Springer)
- Journal of Experimental & Theoretical Artificial Intelligence (Taylor & Francis
- Computer Modeling in Engineering & Sciences (Tech Science Press)

Paper Reviewed Manoj K. Rajpoot for the following Journals:

- Computers and Mathematics with Applications, Elsevier
- Physics of Fluids, AIP
- Communications in Nonlinear Science and Numerical Simulation, Elsevier
- Journal of Computational and Applied Mathematics, Elsevier
- Scientific Reports, Nature
- Numerical Algorithms, Springer
- Mathematical Reviews for American Mathematical Society

अध्याय-12

कंप्यूटिंग और सूचना सेवा केंद्र (सीसीआईएस)

नेटवर्क कनेक्टिविटी और इंटरनेट

सीसीआईएस 24-कोर ऑप्टिकल फाइबर केबल (ओएफसी) आर्किटेक्चर के माध्यम से पूरे परिसर में, शैक्षणिक भवनों, छात्र छात्रावासों, केंद्रीय पुस्तकालय, प्रशासनिक भवन, विवेकानंद व्याख्यान कक्ष, वाणिज्यिक परिसर, अतिथि छात्रावास, स्वास्थ्य केंद्र और कर्मचारी आवासों सहित, निर्बाध गीगाबिट नेटवर्क कनेक्टिविटी प्रदान करता है। राष्ट्रीय ज्ञान नेटवर्क (एनकेएन) से 10 जीबीपीएस की एक समर्पित 1:1 लीज्ड लाइन के माध्यम से इंटरनेट एक्सेस प्रदान किया जाता है। संस्थान एनकेएन का हिस्सा है, जो सभी राष्ट्रीय स्तर के संस्थानों को एक उच्च गति वाले फाइबर नेटवर्क के माध्यम से जोड़ता है।

उच्च-प्रदर्शन कंप्यूटिंग (एचपीसी) क्लस्टर

सीसीआईएस में स्थापित एचपीसी सुविधा का उपयोग गणितीय, भौतिक और इंजीनियरिंग समस्याओं के सिमुलेशन के लिए किया जाता है। इसके प्रमुख अनुप्रयोग क्षेत्रों में संख्यात्मक जलाशय सिमुलेशन, बहु-चरणीय प्रवाह, छिद्रपूर्ण माध्यमों से प्रवाह, आणविक गतिकी सिमुलेशन, भूकंपीय तरंग संचरण और बलात्/प्राकृतिक संवहन-प्रधान प्रवाह शामिल हैं।

वर्तमान में, एचपीसी क्लस्टर में नौ नोड्स (एक मास्टर और आठ कंप्यूट नोड्स, फुजित्सु पीआर3000) हैं। प्रत्येक नोड दोहरे प्रोसेसर से सुसज्जित है, प्रत्येक प्रोसेसर में 20 कोर हैं, कुल मिलाकर 180 कोर। यह क्लस्टर गॉसियन और टेक360 जैसे सॉफ़्टवेयर का भी समर्थन करता है।

ऑडिटोरियम ए/वी सिस्टम

ऑडिटोरियम में वीडियो स्ट्रीमिंग और रिकॉर्डिंग सुविधा के साथ हरमन और जेबीएल ऑडियो/वीडियो सिस्टम की सुविधा उपलब्ध है।

संचार उपकरण

EPABX सर्वर

Cisco BE6000H EPABX server with support for up to 1000 users, RAID 5 configuration, 64 GB DDR4-2400 MHz RDIMM, 770W AC hot-plug power supply for a 1U C-series rack server, and 300×8 GB 12G SAS 10K RPM SFF HDD.

वाई-फाई कंट्रोलर

सिस्को वाई-फाई कंट्रोलर (सिस्को 5520) 300 एक्सेस पॉइंट तक स्केलेबिलिटी के साथ, 2×10 गीगाबिट ईथरनेट इंटरफेस या 2 गीगाबिट ईथरनेट इंटरफेस को सपोर्ट करता है। इसमें 300 एक्सेस पॉइंट सपोर्ट करने वाला एक इनबिल्ट लाइसेंस शामिल है। और टीपी-लिंक ओमाडा हार्डवेयर कंट्रोलर OC300 500 एक्सेस पॉइंट तक सपोर्ट करता है। परिसर नवीनतम सिस्को और टीपी-लिंक एक्सेस पॉइंट से पूरी तरह सुसज्जित है।

फ़ायरवॉल

कैंपस नेटवर्क सोफोस XGS 4300 फ़ायरवॉल द्वारा सुरक्षित है, जो विश्वसनीय SaaS, SD-WAN और क्लाउड एप्लिकेशन ट्रैफ़िक को तेज़ करने के लिए उच्च-प्रदर्शन TLS 1.3 निरीक्षण, डीप पैकेट निरीक्षण और नेटवर्क फ़्लो फ़ास्टपाथ को सक्षम बनाता है। यह सोफोस सेंट्रल के साथ एकीकृत होकर सुरक्षित एंडपॉइंट्स को फ़ायरवॉल से जोड़ता है, जिससे ख़तरे का तेज़ी से पता लगाना, सरल जाँच और हमलों का न्यूनतम प्रभाव संभव होता है।

सॉफ्टवेयर सेवाएँ

MATLAB

MATLAB तकनीकी कंप्यूटिंग के लिए एक लचीला वातावरण प्रदान करने हेतु गणितीय कंप्यूटिंग, विज़ुअलाइज़ेशन और एक शक्तिशाली प्रोग्रामिंग भाषा को एकीकृत करता है।

COMSOL

COMSOL सॉफ़्टवेयर डेटा विश्लेषण, रिपोर्ट निर्माण और उद्यम-व्यापी सूचना वितरण के लिए उपकरण और समाधान प्रदान करता है। इसका उपयोग विभिन्न अनुप्रयोगों में डेटा एक्सेस, प्रबंधन, विश्लेषण और प्रस्तुति के लिए किया जा सकता है।

ऑटोकैड

ऑटोकैड एक पेशेवर द्वि-आयामी CAD प्रोग्राम है जो उन्नत उत्पादकता सुविधाओं के साथ-साथ संचार और सहयोग उपकरण प्रदान करता है।

SPSS (सामाजिक विज्ञान के लिए सांख्यिकीय पैकेज)

SPSS एक डेटा प्रबंधन और विश्लेषण सॉफ़्टवेयर उत्पाद है। यह सांख्यिकीय विश्लेषण, डेटा प्रबंधन और परिणामों की ग्राफ़िकल प्रस्तुति का समर्थन करता है।

ASPEN

ASPEN एक प्रक्रिया सिमुलेशन सॉफ़्टवेयर पैकेज है जिसका व्यापक रूप से उद्योग और शिक्षा दोनों में उपयोग किया जाता है। एक प्रक्रिया डिज़ाइन और उपयुक्त ऊष्मागतिक मॉडल के साथ, ASPEN प्रक्रिया प्रदर्शन की भविष्यवाणी करने के लिए गणितीय मॉडलिंग का उपयोग करता है।

CMG

CMG का उपयोग उन्नत जलाशय सिमुलेशन के लिए किया जाता है, जो नवीन पुनर्प्राप्ति विधियों के विकास का समर्थन करता है और रणनीतिक उद्देश्यों को प्राप्त करने के लिए तकनीकी बाधाओं को दूर करने में मदद करता है।

स्नातक कंप्यूटर प्रयोगशाला

CCIS चार अलग-अलग प्रयोगशालाओं में 230 डेस्कटॉप मशीनों का रखरखाव करता है, जो सभी विंडोज़ ऑपरेटिंग सिस्टम पर चलती हैं।

वेब सर्वर

RGIPT वेबसाइट समर्पित वेब सर्वर पर होस्ट की जाती है, जिसका डेटाबेस एक अलग DB सर्वर पर प्रबंधित होता है।

अध्याय-13

शैक्षणिक कार्यक्रम और डिग्री का पुरस्कार

राजीव गांधी पेट्रोलियम प्रौद्योगिकी संस्थान (आरजीआईपीटी), जायस, भारत सरकार द्वारा स्थापित एक स्वायत्त संस्थान है। संस्थान को संसद के अधिनियम ("राजीव गांधी पेट्रोलियम प्रौद्योगिकी संस्थान अधिनियम 2007") के तहत भारतीय प्रौद्योगिकी संस्थान (आईआईटी) की तर्ज पर "राष्ट्रीय महत्व के संस्थान" का दर्जा दिया गया है। आरजीआईपीटी को तेल उद्योग विकास बोर्ड (ओआईडीबी) के सहयोग से छह प्रमुख तेल सार्वजनिक क्षेत्र इकाइयों (ओएनजीसी, आईओसीएल, ओआईएल, गेल, बीपीसीएल और एचपीसीएल) द्वारा एक ऊर्जा डोमेन विशिष्ट संस्थान के रूप में सह-प्रवर्तित किया गया है। संस्थान पेट्रोलियम और ऊर्जा प्रौद्योगिकी क्षेत्र के अग्रणी अंतरराष्ट्रीय विश्वविद्यालयों और विशेषज्ञता वाले संस्थानों से जुड़ा हुआ है । संस्थान का मुख्य उद्देश्य पेट्रोलियम और ऊर्जा क्षेत्र की बढ़ती आवश्यकताओं को पूरा करने के लिए सक्षम मानव संसाधन उपलब्ध कराने के लिए विश्व स्तरीय शिक्षा, प्रशिक्षण और अनुसंधान प्रदान करना है संस्थान में विभिन्न इंजीनियरिंग विषयों में एम.टेक. कार्यक्रम के साथ-साथ बुनियादी विज्ञान, मानविकी, इंजीनियरिंग और प्रबंधन के विभिन्न क्षेत्रों में पीएचडी कार्यक्रम भी पेश किए जाते हैं

संस्थान के बी.टेक. कार्यक्रमों का उद्देश्य पेट्रोलियम और ऊर्जा से संबंधित इंजीनियरिंग, विज्ञान और अंतःविषय विषयों के अग्रणी क्षेत्रों में ठोस सैद्धांतिक और प्रयोगात्मक पृष्ठभूमि के साथ जनशक्ति विकसित करना है। बहु-विषयक दृष्टिकोण का उपयोग करके संबंधित क्षेत्र में व्यावहारिक महत्व की समस्याओं को हल करने में शामिल वैज्ञानिक आधार और इंजीनियरिंग सिद्धांतों को समझने पर जोर दिया गया है। इन कार्यक्रमों का एक महत्वपूर्ण घटक छात्रों में सामाजिक जिम्मेदारी की भावना को बनाए रखना, स्वतंत्र सोच को बढ़ावा देना और वास्तविक समस्याओं को हल करने की दिशा में योग्यता विकसित करना है। ये कार्यक्रम उद्योग, अनुसंधान एवं विकास संगठनों और शैक्षणिक संस्थानों की जरूरतों को पूरा करने के लिए उच्चतम गुणवत्ता वाली जनशक्ति विकसित कर रहे हैं। संस्थान को एमएचआरडी, भारत सरकार द्वारा आयोजित एनआईआरएफ मूल्यांकन में 2022 में रैंक प्राप्त हुई। इंजीनियरिंग संस्थानों की श्रेणी में संस्थान द्वारा प्राप्त 79वीं रैंक को इस तथ्य पर विचार करते हुए अत्यधिक प्रभावशाली कहा जा सकता है कि संस्थान सीमित छात्र संख्या के साथ अपेक्षाकृत नया है और डोमेन विशिष्ट यूजी और पीजी कार्यक्रम प्रदान करता है। अगले वर्षों में, संस्थान को एनआईआरएफ रैंकिंग ढांचे में शीर्ष 50 में रखे जाने की आकांक्षा है।

अपनी ऑन-कैंपस शैक्षणिक पेशकशों को पूरा करने की दृष्टि से, आरजीआईपीटी ने शिवसागर, असम और बेंगलुरु, कर्नाटक में दो केंद्र स्थापित किए हैं। आरजीआईपीटी के केंद्र-असम ऊर्जा संस्थान, शिवसागर, असम में तेल, गैस और पेट्रोकेमिकल की आवश्यकताओं के अनुसार पेट्रोलियम क्षेत्र के विभिन्न क्षेत्रों में डिप्लोमा और एडवांस डिप्लोमा स्तर के पाठ्यक्रमों में कुशल तकनीकी जनशक्ति की शिक्षा और प्रशिक्षण के कार्यक्रम पेश करने की परिकल्पना की गई है। ऊर्जा संस्थान, बेंगलुरु केंद्र को ऊर्जा क्षेत्र में शैक्षणिक कार्यक्रमों के साथ-साथ अत्याधुनिक अनुसंधान सुविधा उपलब्ध कराया जा रहा है। यह केंद्र उपयोग-प्रेरित शोध, के साथ-साथ प्रौद्योगिकी लाइसेंसिंग और व्यावसायीकरण को संभालने के लिए भी स्थापित किया गया है।

शैक्षणिक वर्ष 2024-2025 में प्रवेश

वर्ष 2024-2025 में 4 वर्षीय बी.टेक. एवं 5-वर्षीय दोहरी डिग्री कार्यक्रमों में अभ्यर्थी का प्रवेश हेतु चयन जेईई (एडवांस्ड) या जेईई (मेन्स) 12वीं कक्षा में 80% अंकों के साथ, के माध्यम से किया गया है। 2-वर्षीय एम.टेक कार्यक्रम में अभ्यर्थियों को

GATE स्कोर के आधार पर प्रवेश दिया जाता है। काफी संख्या में अभ्यर्थियों का चयन प्रायोजित एवं क्यू.आई.पी. के अंतर्गत एम.टेक. पाठ्यक्रम के लिए साक्षात्कार और/या लिखित परीक्षाओं के माध्यम किया गया है। पीएचडी पाठ्यक्रम के लिए गेट या जीपैट या यूजीसी/सीएसआईआर-नेट उत्तीर्ण अभ्यर्थियों का परीक्षण/साक्षात्कार के माध्यम से चयन किया गया। भारत में अध्ययन कार्यक्रम के तहत विदेशी छात्रों को आकर्षित करने के लिए, संस्थान ने पीजी और पीएचडी में भी प्रवेश लिया है। जुलाई-अगस्त 2023 में विभिन्न कार्यक्रमों में प्रवेश पाने वाले छात्रों और विद्वानों की संख्या नीचे दी गई तालिका में सूचीबद्ध है।

आरजीआईपीटी, जायस, अमेठी

कार्यक्रम और सीटों के अनुसार डेटा (नए प्रवेशरत छात्र 2024-25)															
क्रम संख्या	कार्यक्रम	उपलब्ध सीटें	अनारक्षित		ईडब्ल्यूएस		ओबीसी-एनसीएल		अनुसूचित जाति		अनुसूचित जनजाति		उप योग		कुल योग
			पुरुष	महिला	पुरुष	महिला	पुरुष	महिला	पुरुष	महिला	पुरुष	महिला	पुरुष	महिला	
1	केमिकल इंजीनियरिंग	67	42	17									42	17	59
2	कंप्यूटर विज्ञान एवं इंजीनियरिंग	72	51	11									51	11	62
3	इलेक्ट्रॉनिक्स इंजीनियरिंग	59	38	9									38	9	47
4	इलेक्ट्रिकल इंजीनियरिंग (प्रमुख: ई वाहन प्रौद्योगिकी)	58	31	2									31	2	33
5	सूचान प्रौद्योगिकी	59	41	10									41	10	51
6	गणित और कंप्यूटिंग	72	48	12									48	12	60
7	पेट्रोलियम इंजीनियरिंग	69	45	9									45	9	54
8	केमिकल इंजीनियरिंग (प्रमुख: नवीकरणीय ऊर्जा इंजीनियरिंग)	35	15	3									15	3	18
9	कंप्यूटर विज्ञान एवं डिज़ाइन इंजीनियरिंग	60	34	17									34	17	51
10	केमिकल इंजीनियरिंग (प्रमुख: पेट्रोकेमिकल्स और पॉलिमर इंजीनियरिंग)	36	17	5									17	5	22
11	आईडीडी - पेट्रोलियम इंजीनियरिंग में	12			2	0							1	1	2

	बीटेक और पेट्रोलियम एवं प्राकृतिक गैस इंजीनियरिंग में एमएस														
12	पेट्रोलियम इंजीनियरिंग (मेजर: एप्लाइड पेट्रोलियम जियोसाइंस)	24	3	0									3	0	3
13	कंप्यूटर विज्ञान एवं इंजीनियरिंग और कृत्रिम बुद्धिमत्ता में IDD	47			28	12							28	12	40
	मैकेनिकल इंजीनियरिंग	36	7	2									7	2	9
14	प्रबंधन अध्ययन	50					22	15					22	15	37
15	पीएचडी (सभी शाखाएँ)	35									23	12	23	12	35
**कुल		791	372	97	30	12	22	15			23	12	449	137	583

* अतिरिक्त सीटें शामिल हैं।
**पीएचडी सीटें संख्या में शामिल नहीं हैं।

आरजीआईपीटी, जायस, अमेठी

कार्यक्रम और सीटों के अनुसार डेटा (नए प्रवेशरत छात्र 2024-25)															
क्रम संख्या	कार्यक्रम	उपलब्ध सीटें	अनारक्षित		ईडब्ल्यूएस		ओबीसी-एनसीएल		अनुसूचित जाति		अनुसूचित जनजाति		उप योग		कुल योग
			पुरुष	महिला	पुरुष	महिला	पुरुष	महिला	पुरुष	महिला	पुरुष	महिला	पुरुष	महिला	
1	केमिकल इंजीनियरिंग	67	4	5	5	5	22	6	9	1	2	0	42	17	59
2	कंप्यूटर विज्ञान एवं इंजीनियरिंग	72	12	5	12	3	14	1	9	1	4	1	51	11	62
3	इलेक्ट्रॉनिक्स इंजीनियरिंग	59	8	5	9	0	16	0	5	4	0	0	38	9	47
4	इलेक्ट्रिकल इंजीनियरिंग (प्रमुख: ई वाहन प्रौद्योगिकी)	58	9	1	4	0	8	0	8	1	2	0	31	2	33
5	सूचान प्रौद्योगिकी	59	9	3	8	1	16	2	8	3	0	1	41	10	51
6	गणित और कंप्यूटिंग	72	9	6	10	2	21	3	8	1	0	0	48	12	60

7	पेट्रोलियम इंजीनियरिंग	69	6	2	9	2	22	3	6	2	2	0	45	9	54
8	केमिकल इंजीनियरिंग (प्रमुख: नवीकरणीय ऊर्जा इंजीनियरिंग)	35	7	2	2	0	3	0	3	1	0	0	15	3	18
9	कंप्यूटर विज्ञान एवं डिज़ाइन इंजीनियरिंग	60	7	9	6	3	15	2	6	3	0	0	34	17	51
10	केमिकल इंजीनियरिंग (प्रमुख: पेट्रोकेमिकल्स और पॉलिमर इंजीनियरिंग)	36	7	1	3	1	4	2	3	1	0	0	17	5	22
11	आईडीडी - पेट्रोलियम इंजीनियरिंग में बीटेक और पेट्रोलियम एवं प्राकृतिक गैस इंजीनियरिंग में एमएस	12	1	0	1	0	0	0	0	0	0	0	1	1	2
12	पेट्रोलियम इंजीनियरिंग (मेजर: एप्लाइड पेट्रोलियम जियोसाइंस)	24	2	0	0	0	0	0	1	0	0	0	3	0	3
13	कंप्यूटर विज्ञान एवं इंजीनियरिंग और कृत्रिम बुद्धिमत्ता में IDD	47	3	9	7	1	12	1	5	0	1	1	28	12	40
14	मैकेनिकल इंजीनियरिंग	36	1	2	2	0	3	0	1	0	0	0	7	2	9
15	प्रबंधन अध्ययन	50	11	4	3	1	6	9	2	1	0	0	22	15	37
16	पीएचडी (सभी शाखाएँ)	35	12	8	5	1	5	3	1	0	0	0	23	12	35
**कुल		791	108	62	86	20	167	32	75	19	11	3	446	137	583

वर्ष के दौरान उपरोक्त सहित प्रवेशित छात्रों की संख्या:

अनारक्षित	**170**
अन्य पिछड़ा वर्ग	**199**
आर्थिक रूप से कमजोर वर्ग	**106**

अनु. जाति	**94**
अनु. जन जाति	**14**

छात्रों/विद्वानों का नामांकन

शैक्षणिक वर्ष 2024-2025 में संस्थान के विभिन्न कार्यक्रमों में उपस्थित छात्रों की कुल संख्या तालिका में दी गई है

आरजीआईपीटी, जायस, अमेठी

कार्यक्रम और सीटों के अनुसार डेटा (2024-25 में नामांकित)												
क्रम संख्या	**पाठ्यक्रम**	**बी.टेक.**		**एमबीए**		**एम. टेक**		**पी.एचडी**		**उप-योग**		
		पुरुष	**महिला**	**पुरुष**	**महिला**	**पुरुष**	**महिला**	**पुरुष**	**महिला**	**पुरुष**	**महिला**	**कुल योग**
1	केमिकल इंजीनियरिंग	142	48									190
2	कंप्यूटर विज्ञान एवं इंजीनियरिंग	218	27									245
3	इलेक्ट्रॉनिक्स इंजीनियरिंग	125	32									157
4	इलेक्ट्रिकल इंजीनियरिंग (प्रमुख: ई वाहन प्रौद्योगिकी)	84	17									101
5	सूचान प्रौद्योगिकी	155	26									181
6	गणित और कंप्यूटिंग	151	34									185
7	पेट्रोलियम इंजीनियरिंग	153	37									190
8	केमिकल इंजीनियरिंग (प्रमुख: नवीकरणीय ऊर्जा इंजीनियरिंग)	29	7									36
9	कंप्यूटर विज्ञान एवं डिज़ाइन इंजीनियरिंग	93	31									124
10	केमिकल इंजीनियरिंग (प्रमुख: पेट्रोकेमिकल्स और पॉलिमर इंजीनियरिंग)	28	7									35
11	भू-विज्ञान और इंजीनियरिंग											0
12	पेट्रोलियम इंजीनियरिंग (मेजर: एप्लाइड पेट्रोलियम जियोसाइंस)											0
13	कंप्यूटर विज्ञान एवं इंजीनियरिंग और आर्टिफिशियल इंटेलिजेंट में आईडीडी	104	36									140
14	मैकेनिकल इंजीनियरिंग	7	2									9

15	प्रबंधन अध्ययन			39	31							70
16	पीएचडी (सभी शाखाएँ)							157	51			208
कुल		1289	304	39	31			157	51			1871

वर्ष के दौरान प्रवेश पाने वाले छात्रों में निम्नलिखित शामिल थे:

अनारक्षित	**579**
ओबीसी	**591**
ईडब्ल्यूएस	**368**
पीडब्ल्यूडी	**1**
एससी	**300**
एसटी	**32**
विदेशी छात्र (अनारक्षित में शामिल)	**3**
विदेशी छात्र (अनुसूचित जाति में शामिल)	**1**

बी.टेक. में नामांकित छात्र

क्रम संख्या	शाखा	2024	2023	2022	2021	योग
1	केमिकल इंजीनियरिंग	59	67	53	11	**190**
2	कंप्यूटर विज्ञान एवं इंजीनियरिंग	62	64	64	55	**245**
3	इलेक्ट्रॉनिक्स इंजीनियरिंग	47	46	45	19	**157**
4	इलेक्ट्रिकल इंजीनियरिंग (प्रमुख: ई वाहन प्रौद्योगिकी)	37	31	33	0	**101**
5	सूचान प्रौद्योगिकी	51	47	54	29	**181**
6	गणित और कंप्यूटिंग	60	61	43	21	**185**
7	पेट्रोलियम इंजीनियरिंग	58	57	44	31	**190**
8	केमिकल इंजीनियरिंग (प्रमुख: नवीकरणीय ऊर्जा इंजीनियरिंग)	18	10	8	0	**36**
9	कंप्यूटर विज्ञान एवं डिज़ाइन इंजीनियरिंग	51	41	32	0	**124**
10	केमिकल इंजीनियरिंग (प्रमुख: पेट्रोकेमिकल्स और पॉलिमर इंजीनियरिंग)	22	13	0	0	**35**
11	भू-विज्ञान और इंजीनियरिंग	0	0	0	0	0
12	पेट्रोलियम इंजीनियरिंग (मेजर: एप्लाइड पेट्रोलियम जियोसाइंस)	0	0	0	0	0
13	कंप्यूटर विज्ञान एवं इंजीनियरिंग और आर्टिफिशियल इंटेलिजेंट में आईडीडी	40	41	34	25	**140**
14	मैकेनिकल इंजीनियरिंग	9				**9**
कुल		**514**	**478**	**410**	**191**	**1593**

एमबीए में नामांकित छात्र

क्रम संख्या	शाखा	2024	2023	योग
1	व्यवसाय प्रबंधन में स्नातकोत्तर	37	33	70
कुल		**37**	**33**	**70**

पीएच.डी. में नामांकित छात्र

क्रम संख्या	विभाग/केन्द्र	2024	2023	2022	2021	2020	2019	2018	2017	2016	कुल
1	पेट्रोलियम इंजीनियरिंग और जियोइंजीनियरिंग	8	8	3	11	5	1	0	0	0	**36**
2	केमिकल इंजीनियरिंग और बायोकेमिकल इंजीनियरिंग	3	7	7	6	8	2	0	0	0	**33**
3	कंप्यूटर विज्ञान एवं इंजीनियरिंग	3	3	1	4	0	0	0	0	0	**11**
5	गणितीय विज्ञान	2	1	1	6	3	2	0	0	0	**15**
6	प्रबंधन अध्ययन	10	14	4	1	5	9	0	0	4	**47**
7	विज्ञान एवं मानविकी	8	7	7	12	7	2	2	0	0	**45**
8	इलेक्ट्रिकल एवं इलेक्ट्रॉनिक्स इंजीनियरिंग	1	5	5	7	1	1	1	0	0	**21**
कुल		**35**	**45**	**28**	**47**	**29**	**17**	**3**	**0**	**4**	**208**

शैक्षणिक वर्ष 2023-24 में छात्रवृत्ति प्राप्त करने वाले छात्रों की संख्या

क्रम संख्या	छात्रवृत्ति का नाम	अनारक्षित	आर्थिक रूप से कमजोर वर्ग	अन्य पि. व.	अल्पसंख्यक	अनु. जाति	अनु. जनजाति	कुल प्रदान की गयी छात्रवृत्ति
1	उत्तर प्रदेश छात्रवृत्ति	42	---	38	4	12	---	**96**
2	अनुसूचित जाति के छात्रों के लिए शीर्ष श्रेणी की शिक्षा की केंद्रीय क्षेत्र छात्रवृत्ति	---	---	---	---	38	---	38
3	अनुसूचित जनजाति के छात्रों की उच्च शिक्षा के लिए राष्ट्रीय फैलोशिप और छात्रवृत्ति	---	---	---	---	---	5	5
4	ओबीसी के लिए पोस्ट मैट्रिक छात्रवृत्ति - असम	---	---	46	---	---	---	**46**
5	एससी-असम के लिए पोस्ट मैट्रिक छात्रवृत्ति	---	---	---	---	18	---	**18**

6	उच्च व्यावसायिक पाठ्यक्रमों के लिए एनईआर के छात्रों को वित्तीय सहायता (नेक मेरिट छात्रवृत्ति)	2	---	2	---	---	---	**4**
7	कॉलेज और विश्वविद्यालय के लिए छात्रवृत्ति की केंद्रीय क्षेत्र योजना	1	---	2	---	---		**3**
8	पूर्वोत्तर के लिए ईशान उदय विशेष छात्रवृत्ति योजना	---	---	---	---	---	2	**2**
9	अल्पसंख्यक सीएस के लिए पोस्ट मैट्रिक छात्रवृत्ति	---	---	1	4	---	---	**5**
10	मुख्यमंत्री मेधावी विद्यार्थी योजना (एमएमवीवाई) छात्रवृत्ति	16	---	6	---	---	---	**22**
10	बिहार पोस्ट मैट्रिक छात्रवृत्ति	---	---	---	---	---	---	**0**
11	इंजीनियरिंग इंडिया लिमिटेड	---	---	---	---	12	---	**12**
12	आरजीआईपीटी मेरिट-कम-मीन्स छात्रवृत्ति	42	6	32	---	1	---	**81**
13	स्वामी दयानंद एजुकेशन फाउंडेशन छात्रवृत्ति	3	---	---	---	---	---	**3**
14	अन्य राज्य छात्रवृत्ति (झारखंड)	---	---	---	---	---	---	**0**
कुल		**106**	**6**	**127**	**8**	**81**	**7**	**335**

विद्यार्थियों को पदक एवं पुरस्कार प्रदान करना

दीक्षांत समारोह पुरस्कार

7वें दीक्षांत समारोह में छात्रों को पदक और पुरस्कार प्रदान किए गए

2023 में स्नातक होने वाले छात्रों के लिए

- **चिराग जैन**
  उन्हें 2023 में सभी बी.टेक कार्यक्रम के स्नातकों के बीच शैक्षणिक उत्कृष्टता के लिए **प्रेसिडेन्ट के स्वर्ण पदक** से सम्मानित किया गया है।
- **गौरव भाटिया**
  उन्हें 2023 में सभी बी.टेक कार्यक्रम के स्नातकों के बीच उत्कृष्ट सर्वांगीण प्रदर्शन के लिए **निदेशक के स्वर्ण पदक** से सम्मानित किया गया है।
- **अभिजीत आनंद**
  बी.टेक केमिकल इंजीनियरिंग परीक्षा 2023 में प्रथम स्थान प्राप्त करने के लिए उन्हें **आरजीआईपीटी इंस्टीट्यूट गोल्ड मेडल** से सम्मानित किया गया है।
- **रामेन्द्र पांडे**
  बी.टेक पेट्रोलियम इंजीनियरिंग परीक्षा 2023 में में प्रथम स्थान प्राप्त करने के लिए उन्हें **आरजीआईपीटी इंस्टीट्यूट गोल्ड मेडल** से सम्मानित किया गया है।
- **मोहम्मद फहद मसूद खान**
  उन्हें मास्टर ऑफ बिजनेस एडमिनिस्ट्रेशन परीक्षा 2023 में प्रथम स्थान प्राप्त करने के लिए **आरजीआईपीटी इंस्टीट्यूट गोल्ड मेडल** से सम्मानित किया गया है।
- **प्रत्यूष आनंद**

एम.टेक नवीकरणीय ऊर्जा परीक्षा 2023 में प्रथम स्थान प्राप्त करने के लिए उन्हें **आरजीआईपीटी इंस्टीट्यूट गोल्ड मेडल** से सम्मानित किया गया है।

- **मानस ज्योति डेका**
  एम.टेक ऊर्जा विज्ञान और प्रौद्योगिकी परीक्षा 2023 में प्रथम स्थान प्राप्त करने के लिए उन्हें **आरजीआईपीटी इंस्टीट्यूट गोल्ड मेडल** से सम्मानित किया गया है।
- **नीलेश गुप्ता**
  एम.टेक इलेक्ट्रिक वाहन प्रौद्योगिकी परीक्षा 2022 में प्रथम स्थान प्राप्त करने के लिए उन्हें **आरजीआईपीटी इंस्टीट्यूट गोल्ड मेडल** से सम्मानित किया गया है।
- **स्वाति जैन**
  एम.टेक पावर एंड एनर्जी सिस्टम परीक्षा 2022 में प्रथम स्थान प्राप्त करने के **लिए उन्हें आरजीआईपीटी इंस्टीट्यूट गोल्ड मेडल** से सम्मानित किया गया है।

डिग्री प्राप्तकर्ता

- विज्ञान एवं मानविकी विभाग: 03 (पीएचडी)
- गणितीय विज्ञान विभाग: 01 (पीएचडी)
- प्रबंधन अध्ययन विभाग: 04 (पीएचडी)
- कंप्यूटर विज्ञान एवं इंजीनियरिंग विभाग: 01 (पीएचडी)
- रसायन और जैव रासायनिक इंजीनियरिंग विभाग: 01 (पीएचडी)
- पेट्रोलियम इंजीनियरिंग और जियोइंजीनियरिंग विभाग: 01 (पीएचडी)
- रसायन एवं जैव रासायनिक इंजीनियरिंग विभाग: 62 (बी.टेक.)
- पेट्रोलियम इंजीनियरिंग और जियोइंजीनियरिंग विभाग: 06 (एम.टेक.)
- पेट्रोलियम इंजीनियरिंग और जियोइंजीनियरिंग विभाग: 59 (बी.टेक.)
- प्रबंधन अध्ययन विभाग: 18 (एमबीए)
- ऊर्जा संस्थान बेंगलुरु: 38 (एम.टेक.)
- असम ऊर्जा संस्थान, शिवसागर: 172 (डिप्लोमा)

अध्याय-14

पुस्तकालय

स्थापना का वर्ष: 2008

किसी भी विश्व स्तरीय शैक्षणिक संस्थान की तरह, राजीव गांधी पेट्रोलियम प्रौद्योगिकी संस्थान का पुस्तकालय मुख्य शैक्षणिक सेवा केंद्र है। इसे पेट्रोलियम विज्ञान एवं प्रौद्योगिकी के क्षेत्र में विश्व स्तरीय शैक्षणिक पुस्तकालय एवं सूचना केंद्र के रूप में विकसित किया जा रहा है। आरजीआईपीटी का केंद्रीय पुस्तकालय वर्तमान में आरजीआईपीटी के आरजी प्लाजा में कार्य कर रहा है। इसकी इमारत केंद्रीकृत वातानुकूलित है, जो इसके पाठक के लिए आवश्यक सभी सुविधाओं और सेवाओं से सुसज्जित है। इसमें पढ़ने का अच्छा माहौल है और किताबों और अन्य पठन सामग्री को रखने के लिए पर्याप्त जगह है। इसके पुस्तकों के मुद्रित संग्रह के साथ-साथ सीडी और डीवीडी की ग्रंथ सूची का विवरण कम्प्यूटरीकृत है। आरजीआईपीटी पुस्तकालय में रसायन, कंप्यूटर, प्रबंधन, इलेक्ट्रॉनिक्स, गणित और पेट्रोलियम इंजीनियरिंग आदि से संबंधित पुस्तकों, मानक और सहकर्मी-समीक्षित पत्रिकाओं का ऑनलाइन के साथ-साथ मुद्रित मजबूत विशेष संग्रह है। पुस्तकालय में उपलब्ध संसाधन तक ऑनलाइन और ऑफलाइन तक पहुंचने के लिए इंटरनेट सुविधा है।

पुस्तकालय का समय: सुबह 9:00 बजे से रात 11:00 बजे तक
परीक्षा के समय: प्रातः 9:00 बजे से रात्रि 2:00 बजे तक (मध्य/अंतिम सेमेस्टर परीक्षा से पांच दिन पहले)

आवधिक अनुभाग:

द्रित पत्रिकाएँ और जर्नल

1. अमेरिकी वैज्ञानिक
2. केमिकल इंजीनियरिंग
3. फ्रंटलाइन पत्रिका
4. तेल और गैस जर्नल
5. भारतीय भूवैज्ञानिक सोसायटी
6. पी सी क्वेस्ट
7. गणित आज
8. समाजशास्त्रीय बुलेटिन
9. आउटलुक पत्रिका
10. ड्यू
11. डिजिट
12. प्रतियोगिता दर्पण पत्रिका
13. बिजनेस इंडिया
14. बिज़नेस टुडे
15. पाठक का डी
16. इंडिया टुडे
17. हार्वर्ड बिजनेस रिव्यू
18. द इकोनॉमिस्ट
19. फ्रंटलाइन पत्रिका
20. द वीक मैगज़ीन
21. बी डब्ल्यू बिजनेस वर्ल्ड(+)

डेटाबेस

1 साई-फाइन्डर (केमिकल सार)
2 मैथसाईनेट

मानक (एपीआई, ओआईएसडी, एनएफपीएए)

350

ई-पत्रिकायें

ऑनलाइन जर्नल प्रकाशक का नाम

1 One Petro

ई-जर्नल्स:

आरजीआईपीटी ऑन-कैंपस नेटवर्क के माध्यम से 30 वैश्विक प्रकाशक पत्रिकाओं तक पहुंच प्रदान करने के लिए वन नेशन वन सब्सक्रिप्शन (ओएनओएस) लागू किया गया है।

1. AAAS – Science	11. ASME Journals	21. Institute of Physics (IOP) Publishing
2. ACM Digital Library	12. Bentham Science	22. Lippincott Williams & Wilkins (Wolters Kluwer)
3. American Chemical Society	13. BMJ Journals	23. Oxford University Press
4. American Institute of Aeronautics and Astronautics (AIAA)	14. Cambridge University Press	24. Project MUSE
5. American Institute of Physics (AIP)	15. Cold Spring Harbor Laboratory Press	25. SAGE Publishing
6. American Mathematical Society	16. Elsevier (ScienceDirect)	26. SPIE Digital Library
7. American Physical Society (APS)	17. Emerald Publishing	27. Springer Nature
8. American Society for Microbiology (ASM)	18. ICE Publishing	28. Taylor & Francis
9. Annual Reviews	19. IEEE Xplore Digital Library	29. Thieme Medical Publishers
10. ASCE Journals	20. IndianJournals.com	30. Wiley Online Library

समाचार पत्र: दैनिक जागरण (हिंदी), अमर उजाला (हिंदी), हिंदुस्तान टाइम्स (अंग्रेजी), द टाइम्स ऑफ इंडिया (अंग्रेजी), द हिंदू (अंग्रेजी)

अनुसंधान सहायता उपकरण

नाम

1. I Thenticate – Turnitin: A plagiarism software
2. QuillBot

कंप्यूटर-एडेड रेफरेंस सर्विस यूनिट: ऑनलाइन पब्लिक एक्सेस कैटलॉग (ओपीएसी)
कुल सीडी/डीवीडी: 7419
पुस्तकों के डिजिटलीकरण के लिए उपकरण:
लाइब्रेरी ऑटोमेशन सॉफ्टवेयर: Soul Software 3.0

डिजिटल लाइब्रेरी के लिए पहल: INFLIBNET Shodhganga Ph.D. thesis, Membership E-shodhsindu (eSS), National Digital Library of India (NDLI).

संकाय अनुसंधान प्रोफ़ाइल: Indian Research Information Network System (IRINS)

सुरक्षा: RFID, CCTV

पुस्तकों की कुल संख्या: 17608

ई-पुस्तकें: 11 Titles of McGraw Hill E-Books

कोई अन्य जानकारी/गतिविधियाँ (चित्र सहित): Library Interface QR code & Library Webpage link

सदस्य श्रेणी	समस्या विशेषाधिकार	अवधि
संकाय	20 किताबें	एक वर्ष
कर्मचारी	04 किताबें	दो महीने
पीएचडी	04 किताबें	एक महीना
पीजी (एम.टेक, एमबीए)	02 किताबें	एक महीना
स्नातकीय	02 किताबें	20 दिन
बुक बैंक (यूजी, पीजी के लिए)	20 किताबें	एक सेमेस्टर

अध्याय-15

छात्र गतिविधियाँ

सांस्कृतिक परिषद की गतिविधियाँ

स्वतंत्रता दिवस - 15 अगस्त 2024

सांस्कृतिक परिषद ने गर्वपूर्वक 78वें स्वतंत्रता दिवस समारोह का आयोजन अत्यंत देशभक्ति भावना के साथ किया। इस कार्यक्रम में ध्वजारोहण समारोह, राष्ट्रगान का गायन, और एक श्रृंखला सांस्कृतिक प्रस्तुतियाँ शामिल थीं, जो एकता और राष्ट्रवाद की भावना को सुंदरता से प्रदर्शित करती थीं।





जन्माष्टमी उत्सव (दही हांडी प्रतियोगिता, ओपन माइक, पूजा, गरबा नाइट – 25 एवं 26 अगस्त 2024)

जन्माष्टमी का उत्सव दो दिनों तक बड़े उत्साह और उल्लास के साथ मनाया गया। इस अवसर पर जोश से भरी दही हांडी प्रतियोगिता, भक्तिभाव से परिपूर्ण पूजा समारोह, तथा ओपन माइक सत्र का आयोजन किया गया, जिसमें छात्रों ने भक्ति और सांस्कृतिक प्रस्तुतियाँ दीं। उत्सव का समापन रंगारंग गरबा नाइट के साथ हुआ, जिसने छात्रों की व्यापक भागीदारी और सांस्कृतिक एकात्मता को प्रोत्साहित किया।

ओणम उत्सव – 5 सितम्बर 2024

ओणम का उत्सव पारंपरिक उत्साह के साथ मनाया गया, जिसमें केरल की समृद्ध सांस्कृतिक विरासत को उजागर किया गया। गतिविधियों में फूलों की रंगोली (पुक्कलम) बनाना, पारंपरिक ओणम साद्य भोज का आनंद लेना, और लोक सांस्कृतिक प्रस्तुतियाँ शामिल थीं। यह आयोजन छात्रों को सांस्कृतिक विविधता से जोड़ने और पारंपरिक मूल्यों को समझने का एक सशक्त माध्यम बना।

अंतराग्नि सहभागिता (आईआईटी कानपुर का वार्षिक सांस्कृतिक महोत्सव) – 17 से 20 अक्टूबर 2024

आरजीआईपीटी के छात्रों ने गर्वपूर्वक संस्थान का प्रतिनिधित्व अंतराग्नि में किया, जो आईआईटी कानपुर का वार्षिक सांस्कृतिक महोत्सव है। प्रतिनिधिमंडल ने नाट्यकला, संगीत, नृत्य, फैशन और ललित कला सहित विभिन्न प्रतियोगिताओं में

भाग लिया, जिससे अंतर-महाविद्यालयीय संवाद को बढ़ावा मिला और राष्ट्रीय मंच पर आरजीआईपीटी की प्रतिभा का प्रभावशाली प्रदर्शन हुआ।

अगर आप चाहें तो मैं पूरे अध्याय को एकसाथ हिंदी में संकलित कर सकता हूँ या इसे औपचारिक रिपोर्ट शैली में रूपांतरित कर सकता हूँ. बताइए, अगला भाग कौन सा है?

उर्जोत्सव सांस्कृतिक संध्या – 9 नवम्बर 2024

उर्जोत्सव, जो कि आरजीआईपीटी का वार्षिक तकनीकी महोत्सव है, के अंतर्गत एक विशेष सांस्कृतिक संध्या का आयोजन किया गया। इस कार्यक्रम में संगीत, नृत्य और नाट्यकला की जीवंत प्रस्तुतियाँ शामिल थीं। इस आयोजन ने छात्रों को अपनी रचनात्मक और कलात्मक प्रतिभा प्रदर्शित करने का मंच प्रदान किया, जिससे परिसर का वातावरण और अधिक जीवंत और समावेशी बना।

नववर्ष की पूर्व संध्या बोनफायर – 31 दिसम्बर 2024

नववर्ष की पूर्व संध्या पर 2024 को विदाई देने के लिए एक शांत और आनंददायक बोनफायर नाइट का आयोजन किया गया। इस कार्यक्रम में एकोस्टिक संगीत प्रस्तुतियाँ, इंटरैक्टिव खेल, और हल्के जलपान शामिल थे, जिससे शीतकालीन अवकाश के दौरान परिसर में निवास कर रहे छात्रों के लिए एक गर्मजोशी भरा और उत्सवपूर्ण वातावरण निर्मित हुआ।

मकर संक्रांति उत्सव (पतंगबाजी, लोहड़ी, पोंगल) – 12 से 14 जनवरी 2025

मकर संक्रांति का उत्सव तीन दिनों तक सांस्कृतिक समृद्ध गतिविधियों के साथ मनाया गया। इस दौरान पतंगबाजी प्रतियोगिता, पारंपरिक अग्नि और लोकगीतों के साथ लोहड़ी समारोह, तथा पोंगल भोज का आयोजन किया गया। इन आयोजनों ने भारत के विभिन्न क्षेत्रों की विविध फसल परंपराओं को उजागर किया, जिससे "विविधता में एकता" की भावना को बल मिला और छात्रों में सांस्कृतिक जागरूकता का विस्तार हुआ।

गणतंत्र दिवस – 26 जनवरी 2025

गणतंत्र दिवस को औपचारिक ध्वजारोहण, परेड, और छात्रों द्वारा प्रस्तुत सांस्कृतिक कार्यक्रमों के साथ श्रद्धापूर्वक मनाया गया। यह आयोजन भारतीय संविधान में निहित मूल्यों का उत्सव था और लोकतांत्रिक भारत की भावना को सम्मानित करता है, जिससे परिसर समुदाय में गर्व और देशभक्ति की भावना जागृत हुई।



प्रतिध्वनि – फ्रेशर्स पार्टी – 26 जनवरी 2025

प्रतिध्वनि ने नए छात्रों के स्वागत के लिए एक जीवंत और ऊर्जा से भरपूर फ्रेशर्स पार्टी का आयोजन किया। इस कार्यक्रम में आकर्षक प्रस्तुतियाँ, फैशन वॉक, मनोरंजक खेल, और संवादात्मक सत्र शामिल थे, जो छात्रों के कॉलेज जीवन में सहज प्रवेश को प्रोत्साहित करने और उनके बीच एक मजबूत सामुदायिक भावना विकसित करने के उद्देश्य से आयोजित किए गए थे।

सरस्वती पूजा एवं सांस्कृतिक कार्यक्रम – 2 फरवरी 2025

वसंत पंचमी के शुभ अवसर पर सांस्कृतिक परिषद द्वारा सरस्वती पूजा का आयोजन किया गया, जिसके पश्चात एक श्रृंखला सांस्कृतिक कार्यक्रमों का आयोजन हुआ। छात्रों ने भजन गायन, शास्त्रीय प्रस्तुतियाँ, और पारंपरिक अनुष्ठानों में सक्रिय रूप से भाग लिया, जिससे विद्या और सृजनात्मक प्रेरणा के लिए माँ सरस्वती का आशीर्वाद प्राप्त करने की भावना जागृत हुई।

एनर्जिया – सांस्कृतिक संध्या – 23 फरवरी 2025

एनर्जिया सेमेस्टर की प्रमुख सांस्कृतिक संध्याओं में से एक रही, जिसमें छात्रों द्वारा प्रस्तुत नृत्य, संगीत, स्टैंड-अप कॉमेडी और नाट्यकला की रोमांचक श्रृंखला शामिल थी। यह आयोजन परिसर की प्रतिभा और सांस्कृतिक जीवंतता का उत्सव बना, जिसने रचनात्मकता को प्रोत्साहित किया और विभिन्न विषयों के छात्रों के बीच सहभागिता को बढ़ावा दिया।

खेल परिषद की गतिविधियाँ

इनडोर्स लीग – 24 से 25 अगस्त 2024

24 अगस्त 2024 को परिसर में ऊर्जा और प्रतिस्पर्धा की भावना के साथ इनडोर्स लीग का शुभारंभ हुआ, जिसमें टेबल टेनिस, कैरम और शतरंज जैसे रोमांचक खेलों का आयोजन किया गया। इस कार्यक्रम में 100 से अधिक प्रतिभागियों ने भाग लिया, जो अपनी कौशल और रणनीतिक सोच का प्रदर्शन करने के लिए उत्साहित थे। प्रतियोगिताएँ दो सत्रों में आयोजित की गईं: प्रातः 10:00 बजे से दोपहर 1:00 बजे तक, और पुनः दोपहर 3:00 बजे से शाम 6:00 बजे तक।

आयोजित प्रतियोगिताएँ:

- टेबल टेनिस (एकल एवं युगल)
- कैरम (बालक एवं बालिका वर्ग)
- शतरंज (बालक वर्ग)

इनडोर्स लीग ने छात्रों को मैत्रीपूर्ण किंतु प्रतिस्पर्धात्मक खेलों में भाग लेने का मंच प्रदान किया, जिससे मानसिक चपलता और खेल भावना को बढ़ावा मिला।

अंतर्राष्ट्रीय योग दिवस – 21 जून 2024

संस्थान ने अंतर्राष्ट्रीय योग दिवस को बड़े उत्साह और सामूहिक भावना के साथ मनाया। यह कार्यक्रम इनडोर हॉल में आयोजित किया गया ताकि प्रतिभागियों को शांत, आरामदायक और एकाग्र वातावरण प्रदान किया जा सके। कुल 100 प्रतिभागियों ने सत्र में भाग लिया, जिनमें 30 महिलाएँ और 70 पुरुष शामिल थे, जो परिसर समुदाय की मजबूत और समावेशी भागीदारी को दर्शाता है। इस सत्र ने शारीरिक स्वास्थ्य, मानसिक स्पष्टता, और दैनिक जीवन में योग को शामिल करने के महत्व को बढ़ावा दिया।

राष्ट्रीय खेल दिवस – 29 अगस्त 2024

राष्ट्रीय खेल दिवस के अवसर पर समुदाय की भावना को सुदृढ़ करने और शारीरिक फिटनेस को बढ़ावा देने के उद्देश्य से शिक्षण एवं गैर-शिक्षण कर्मचारियों के बच्चों तथा संस्थान के छात्रों के लिए कई रोचक गतिविधियों का आयोजन किया गया।

आवासीय क्षेत्र में बच्चों के लिए आयोजित कार्यक्रम:

1. **दौड़ प्रतियोगिता**
   उत्सव की शुरुआत आवासीय क्षेत्र में रहने वाले बच्चों के लिए जोशपूर्ण दौड़ प्रतियोगिता से हुई। कुल 50 बच्चों ने उत्साह, ऊर्जा और खेल भावना के साथ भाग लिया। इस दौड़ ने पूरे वातावरण को जीवंत और प्रतिस्पर्धात्मक बना दिया, जिससे शाम की शुरुआत उत्साहपूर्ण रही।
2. **म्यूजिकल चेयर प्रतियोगिता**
   दौड़ के बाद म्यूजिकल चेयर प्रतियोगिता का आयोजन किया गया। बच्चे उत्साहपूर्वक भाग लेते हुए हर बार संगीत बंद होने पर कुर्सी पाने का प्रयास करते रहे। यह कार्यक्रम हँसी, आनंद और उत्साह से भरपूर रहा, साथ ही बच्चों की त्वरित सोच और चपलता को भी प्रोत्साहित किया। यह अनुभव प्रतिभागियों और दर्शकों दोनों के लिए हृदयस्पर्शी रहा।

इन कार्यक्रमों ने न केवल बच्चों के चेहरों पर मुस्कान लाई, बल्कि परिसर में सामुदायिक भावना को भी सुदृढ़ किया।

हॉस्टल क्षेत्र में छात्रों के लिए आयोजित कार्यक्रम:

शारीरिक शक्ति और सहनशक्ति पर आधारित प्रतियोगिताओं की एक श्रृंखला हॉस्टल क्षेत्र में आयोजित की गई, जिसका उद्देश्य छात्रों में फिटनेस और स्वस्थ प्रतिस्पर्धा को प्रोत्साहित करना था। इन आयोजनों में छात्रों ने उत्साहपूर्वक भाग लिया और पूरे समय ऊर्जा से भरपूर माहौल बना रहा।

3. **बालकों की पुश-अप प्रतियोगिता**
   कार्यक्रम की शुरुआत बालकों के लिए उच्च ऊर्जा वाली पुश-अप प्रतियोगिता से हुई। 50 से अधिक प्रतिभागियों ने निर्धारित समय सीमा में अधिकतम पुश-अप करने की चुनौती स्वीकार की। प्रतियोगिता तीव्र रही, जिसमें कई छात्रों ने प्रभावशाली ऊपरी शरीर की शक्ति और दृढ़ संकल्प का प्रदर्शन किया।
4. **बालिकाओं की प्लैंक चैलेंज**
   इसके बाद प्लैंक चैलेंज का आयोजन किया गया, जिसमें 10 से अधिक बालिकाओं ने भाग लिया। प्रत्येक प्रतिभागी ने यथासंभव अधिक समय तक प्लैंक स्थिति बनाए रखी। यह प्रतियोगिता शारीरिक फिटनेस के साथ-साथ मानसिक दृढ़ता की भी परीक्षा थी, जिसमें प्रतिभागियों ने अपनी सीमाओं को पार करने का प्रयास किया।

बालिकाओं की पावरलिफ्टिंग प्रतियोगिता

दिन का अंतिम कार्यक्रम पावरलिफ्टिंग प्रतियोगिता थी, जिसमें हॉस्टल की 10 से अधिक सशक्त बालिकाओं ने भाग लिया। विभिन्न भार वर्गों में प्रतिस्पर्धा करते हुए प्रतिभागियों ने अद्भुत शक्ति, सटीक तकनीक, और प्रबल संकल्प का प्रदर्शन किया। दर्शक पूरी तरह से कार्यक्रम में सम्मिलित रहे, हर प्रभावशाली लिफ्ट पर तालियों और उत्साहवर्धन के साथ माहौल को रोमांचक बना दिया। यह आयोजन दिन के सबसे रोमांचक कार्यक्रमों में से एक बन गया।

हॉस्टल क्षेत्र में आयोजित इन प्रतियोगिताओं ने शक्ति प्रशिक्षण और फिटनेस के महत्व को उजागर किया, विशेष रूप से परिसर वातावरण में, साथ ही समावेशिता और छात्र सहभागिता का उत्सव भी मनाया।

बास्केटबॉल और वॉलीबॉल लीग – 7 से 8 सितम्बर 2024

- कुल प्रतिभागी: 148
- बास्केटबॉल: 43 प्रतिभागी
- वॉलीबॉल: 68 प्रतिभागी

बास्केटबॉल और वॉलीबॉल लीग एक जीवंत और आकर्षक आउटडोर खेल आयोजन रहा, जिसका उद्देश्य छात्रों में टीम भावना, शारीरिक फिटनेस और प्रतिस्पर्धात्मक उत्साह को बढ़ावा देना था। दो दिनों तक आयोजित इस लीग ने छात्रों को अपनी एथलेटिक क्षमता, समन्वय और रणनीतिक सोच प्रदर्शित करने का मंच प्रदान किया।
हर मैच ऊर्जा और खेल भावना से भरपूर रहा, जिसमें छात्रों ने टीमवर्क और अनुशासन का शानदार प्रदर्शन करते हुए उत्साहपूर्वक प्रतिस्पर्धा की। कुल 148 छात्रों की सक्रिय भागीदारी के साथ यह आयोजन सेमेस्टर की सबसे बड़ी लीगों में से एक बन गया।





फूटसाल लीग – 29 अगस्त 2024

- कुल प्रतिभागी: 68 (9 टीमों में)
- कुल मैच: 11

फूटसाल लीग, एक तेज़-तर्रार और रोमांचक आउटडोर खेल प्रतियोगिता, उत्साहपूर्ण भागीदारी और अद्वितीय ऊर्जा के साथ सफलतापूर्वक आयोजित की गई। इस लीग का उद्देश्य कौशल विकास, टीम समन्वय और शारीरिक फिटनेस को बढ़ावा देना था। प्रतियोगिता में 9 प्रतिस्पर्धात्मक टीमों के 68 खिलाड़ियों ने भाग लिया।

कुल 11 मैच खेले गए, जिनमें हर एक ने जुनून, रणनीति और टीमवर्क के उच्च स्तर को प्रदर्शित किया। प्रतिभागियों ने न केवल तकनीकी कौशल का प्रदर्शन किया, बल्कि मजबूत खेल भावना भी दिखाई।

क्रीड़ोत्सव 2025 – 26 से 27 अक्टूबर 2025

वार्षिक क्रीड़ोत्सव 2025, एक अंतर-ब्लॉक खेल प्रतियोगिता, बड़े उत्साह के साथ आयोजित की गई, जिसमें विभिन्न हॉस्टलों और ब्लॉकों का प्रतिनिधित्व करते हुए 700 से अधिक छात्रों ने जोशपूर्ण भागीदारी की। यह अंतर-हॉस्टल खेल महोत्सव छात्रों में टीम भावना, खेल उत्कृष्टता और मैत्रीपूर्ण प्रतिस्पर्धा को बढ़ावा देने के उद्देश्य से आयोजित किया गया, जिससे पूरे परिसर में शारीरिक फिटनेस और सौहार्द की भावना को बल मिला।
इस आयोजन में विभिन्न इनडोर और आउटडोर खेलों को शामिल किया गया, जिनका सारांश निम्नलिखित है:

- ट्रैक एवं फील्ड प्रतियोगिताएँ: हाई जंप, लॉन्ग जंप, रिले रेस (बालिका), रिले रेस (बालक), 100 मीटर दौड़ (बालिका), 200 मीटर दौड़ (बालक)
- इनडोर खेल: बैडमिंटन (बालिका एकल एवं युगल), कैरम (बालक एवं बालिका), शतरंज (बालक एवं बालिका), टेबल टेनिस (बालक एवं बालिका एकल एवं युगल)

- शक्ति आधारित प्रतियोगिताएँ: शॉट पुट (बालक एवं बालिका), पावरलिफ्टिंग (बालिका – ओपन श्रेणी), पावरलिफ्टिंग (बालक – 60 किग्रा, 70 किग्रा, 80 किग्रा वर्ग)
- टीम खेल: कबड्डी (बालक), खो-खो (बालक), बास्केटबॉल (बालक एवं बालिका), वॉलीबॉल (बालक एवं बालिका), फुटबॉल (बालक)

क्रीड़ोत्सव 2025 खेल कौशल, प्रतिभा और हॉस्टल गौरव का एक जीवंत उत्सव रहा। हर प्रतिभागी ने इस ऊर्जावान वातावरण में योगदान दिया, जिससे यह आयोजन खेलों के माध्यम से एकता की भावना का सच्चा प्रतीक बन गया।

बॉक्स क्रिकेट लीग – 19 से 27 अक्टूबर 2024

- कुल टीमें: 18
- कुल प्रतिभागी: 120

संस्थान की बॉक्स क्रिकेट लीग 2024 का आयोजन 19 से 27 अक्टूबर के बीच लॉन टेनिस कोर्ट में सफलतापूर्वक किया गया। यह प्रतियोगिता सभी स्नातक एवं स्नातकोत्तर छात्रों के लिए खुली थी, जिसमें 18 टीमों और 120 खिलाड़ियों ने उत्साहपूर्वक भाग लिया।

कुल 49 रोमांचक मैच खेले गए, जिनमें उत्कृष्ट टीमवर्क, रणनीति और खेल भावना का प्रदर्शन हुआ। तीव्र प्रतिस्पर्धा के बाद टीम बजरंग विजेता बनी, जबकि टीम अकात्सुकी उपविजेता रही।

प्री-एनर्जिया क्रिकेट लीग – 8–9 एवं 16–17 फरवरी 2025

- कुल टीमें: 18
- कुल प्रतिभागी: 200+

प्री-एनर्जिया क्रिकेट लीग 2025 का आयोजन 8–9 एवं 16–17 फरवरी को क्रिकेट ग्राउंड में सफलतापूर्वक किया गया। यह टूर्नामेंट सभी छात्रों के लिए खुला था, जिसमें 18 टीमों और 200 से अधिक खिलाड़ियों ने उत्साहपूर्वक भाग लिया। कुल 16 प्रतिस्पर्धात्मक मैच खेले गए, जो ऊर्जा, टीमवर्क और खेल भावना से परिपूर्ण थे।
कड़े मुकाबलों के बाद टीम बजरंग विजेता बनी, जबकि टीम टॉक्सिक उपविजेता रही। इस लीग ने मुख्य एनर्जिया कार्यक्रम से पहले छात्रों को एकजुट करते हुए उत्साह और सौहार्द का वातावरण निर्मित किया।
टूर्नामेंट का समापन पुरस्कार वितरण समारोह के साथ हुआ, जिसमें प्रतिभागियों के प्रयासों और उपलब्धियों को सम्मानित किया गया।

एनर्जिया 2025 – 22 से 23 फरवरी 2025

एनर्जिया 2025, संस्थान का प्रमुख वार्षिक खेल महोत्सव, 22 और 23 फरवरी को सफलतापूर्वक आयोजित किया गया, जिसमें प्रतिस्पर्धा, ऊर्जा और उत्सव का जीवंत संगम देखने को मिला। इस आयोजन में 10 से अधिक कॉलेजों से 350+ बाहरी प्रतिभागियों सहित कुल 800+ प्रतिभागियों ने उत्साहपूर्वक भाग लिया।

इस महोत्सव में बास्केटबॉल, वॉलीबॉल, बैडमिंटन, शतरंज, कैरम, पावरलिफ्टिंग, शॉट पुट, लॉन्ग जंप, एथलेटिक्स, लॉन टेनिस और टेबल टेनिस जैसे विविध खेलों का आयोजन किया गया। प्रत्येक प्रतियोगिता में तीव्र प्रतिस्पर्धा और उत्साही भागीदारी देखने को मिली, जहाँ छात्रों ने अपना सर्वश्रेष्ठ प्रदर्शन किया और दर्शकों तथा टीम साथियों की उत्साहवर्धक तालियों से माहौल और भी जीवंत हो गया।

एनर्जिया 2025 केवल एक खेल प्रतियोगिता नहीं थी—यह युवाओं, फिटनेस और एकता का उत्सव था। महोत्सव का समापन एक उल्लासपूर्ण और भव्य डीजे नाइट के साथ हुआ, जिसमें प्रतिभागियों ने अपनी उपलब्धियों का जश्न मनाया और आनंद लिया।

कुल मिलाकर, एनर्जिया 2025 एक शानदार सफलता रही, जिसने अंतरकॉलेजिएट संबंधों को सुदृढ़ किया और प्रतिस्पर्धा, सौहार्द और उत्सव की अविस्मरणीय यादें छोड़ दीं।

तवरण – केएनआईटी सुल्तानपुर – 25 से 27 फरवरी 2025

राजीव गांधी इंस्टीट्यूट ऑफ पेट्रोलियम टेक्नोलॉजी (आरजीआईपीटी) के छात्रों ने तवरण 2025, जो कि कमला नेहरू इंस्टीट्यूट ऑफ टेक्नोलॉजी (केएनआईटी), सुल्तानपुर का वार्षिक खेल महोत्सव है, में शानदार प्रदर्शन किया। कौशल, खेल भावना और अद्वितीय टीम स्पिरिट का प्रदर्शन करते हुए आरजीआईपीटी के खिलाड़ियों ने कई खेल प्रतियोगिताओं में प्रभुत्व स्थापित किया और विजयों का प्रभावशाली संग्रह अपने नाम किया।

उपलब्धियाँ संक्षेप में:

- बैडमिंटन: विजेता
- बास्केटबॉल: विजेता
- टेबल टेनिस: विजेता
- फुटबॉल: विजेता
- पावरलिफ्टिंग: उपविजेता

ये उत्कृष्ट परिणाम आरजीआईपीटी की खेल टीमों की प्रतिबद्धता, अनुशासन और अथक प्रयासों को दर्शाते हैं। फुटबॉल और बास्केटबॉल में रणनीतिक खेल से लेकर बैडमिंटन और टेबल टेनिस में तीव्र प्रतिक्रिया तक, हमारे खिलाड़ियों ने इस महोत्सव में एक अमिट छाप छोड़ी। पावरलिफ्टिंग टीम ने भी सराहनीय प्रदर्शन करते हुए उपविजेता स्थान प्राप्त किया।

3.1 प्राथमिक शिक्षण पहल

स्वयंसेवकों द्वारा सप्ताहांत में शासकीय प्राथमिक विद्यालय के छात्रों को बुनियादी गणित, भाषा और साक्षरता की शिक्षा देने हेतु शिक्षण सत्र आयोजित किए गए। इन संवादात्मक पाठों और खेल गतिविधियों ने छात्रों की शैक्षणिक क्षमता और आत्मविश्वास को बढ़ाने में सहायता की। प्रति सप्ताह लगभग 10–15 स्वयंसेवकों ने भाग लिया, जिससे उन्हें सामुदायिक सेवा का मूल्यवान अनुभव प्राप्त हुआ।

इस पहल ने एक सकारात्मक शिक्षण वातावरण को बढ़ावा दिया और आरजीआईपीटी तथा स्थानीय समुदाय के बीच संबंधों को सुदृढ़ किया।

रक्तदान शिविर –31 अगस्त 2024

रक्तदान शिविर का आयोजन एम्स रायबरेली के सहयोग से किया गया, जिसमें संस्थान के संकाय सदस्यों और छात्रों ने सक्रिय रूप से भाग लिया। इस आयोजन में उत्साहपूर्ण भागीदारी देखने को मिली, जिसके परिणामस्वरूप लगभग 60 यूनिट

रक्त एकत्रित किया गया। इस शिविर का उद्देश्य रक्तदान के महत्व के प्रति जागरूकता फैलाकर सामाजिक प्रभाव उत्पन्न करना था। "हर बूंद मायने रखती है, और मिलकर हम बदलाव लाते हैं" के मूलमंत्र के साथ यह पहल समुदाय के सदस्यों को जीवन बचाने हेतु योगदान देने के लिए प्रेरित करने में सफल रही। एकत्रित रक्त जरूरतमंद मरीजों को महत्वपूर्ण सहायता प्रदान करेगा, जिससे स्वास्थ्य सेवा प्रणाली में ठोस बदलाव आएगा। इस आयोजन ने प्रतिभागियों में सामूहिक उत्तरदायित्व और सेवा भावना को भी सुदृढ़ किया, यह दर्शाते हुए कि एकजुट प्रयासों से सार्थक परिवर्तन संभव है। कुल मिलाकर, रक्तदान शिविर संस्थान के लिए एक गौरवपूर्ण क्षण और अत्यंत सफल सामाजिक सेवा पहल रही।



गणेश चतुर्थी उत्सव –7 से 17 सितम्बर 2024

गणेश चतुर्थी के पावन अवसर पर सभी छात्र श्रद्धा और उत्साह के साथ 10 दिवसीय पूजन में सम्मिलित हुए। उत्सव की शुरुआत भगवान गणेश की स्थापना से हुई, जिसके पश्चात प्रतिदिन प्रातः और संध्या आरती एवं पूजन का आयोजन किया गया। भजन संध्याओं ने परिसर में आध्यात्मिक और आनंदमय वातावरण का निर्माण किया। समापन समारोह गणेश विसर्जन के साथ हुआ, जिसमें उल्लासपूर्ण गतिविधियाँ और भावनात्मक विदाई शामिल रही। इस विस्तारित पूजन अवधि ने छात्रों को एक-दूसरे के निकट लाया और समुदाय में एकता की भावना को सुदृढ़ किया। यह आयोजन भगवान गणेश — बुद्धि, ज्ञान और नए आरंभ के देवता — को समर्पित एक भावपूर्ण श्रद्धांजलि रहा, जिसने सभी प्रतिभागियों में आत्मचिंतन और सामूहिकता की प्रेरणा जगाई।

विज्ञान प्रदर्शनी –11 नवम्बर 2024

विज्ञान प्रदर्शनी में आसपास के विद्यालयों के छात्रों को आमंत्रित किया गया, जहाँ उन्होंने अपनी रचनात्मकता और नवाचार का प्रदर्शन किया। कक्षा 9 से 12 तक के लगभग 200 छात्रों ने, छह विभिन्न विद्यालयों का प्रतिनिधित्व करते हुए, उत्साहपूर्वक भाग लिया। छात्रों ने विविध श्रेणियों में नवोन्मेषी परियोजनाएँ प्रस्तुत कीं और प्रतिस्पर्धा की। उत्कृष्ट प्रदर्शन करने वाले प्रतिभागियों को पुरस्कार प्रदान किए गए, साथ ही सर्वश्रेष्ठ प्रदर्शन करने वाले विद्यालय को भी सम्मानित किया गया। इस आयोजन ने प्रतिभागियों में नेतृत्व, टीमवर्क और स्वस्थ प्रतिस्पर्धा की भावना को प्रोत्साहित किया। इसके अतिरिक्त, छात्रों ने प्रयोगशाला भ्रमण और परिसर यात्रा का भी आनंद लिया, जिससे उनके शैक्षणिक दृष्टिकोण का विस्तार हुआ। यह प्रदर्शनी युवा प्रतिभाओं को प्रेरित करने में सफल रही और शैक्षणिक संस्थानों के बीच सामुदायिक संबंधों को सुदृढ़ किया।



सरस्वती पूजन –2 फरवरी 2025

ज्ञान और बुद्धि की देवी माँ सरस्वती की आराधना हेतु संकाय सदस्य, छात्र और श्रद्धालु एकत्रित हुए। पूजन का शुभारंभ प्रातःकाल सरस्वती प्रतिमा की स्थापना के साथ हुआ, जिसके पश्चात सभी प्रतिभागियों को प्रसाद वितरित किया गया। संध्या में आरती का आयोजन भी किया गया, जिसमें पुनः प्रसाद वितरण के साथ भक्तों ने श्रद्धा भाव से भाग लिया। यह पावन अनुष्ठान छात्रों को उनके शैक्षणिक और व्यक्तिगत विकास हेतु आशीर्वाद प्राप्त करने के लिए प्रेरित करता है, जिससे आस्था और भक्ति की भावना को बल मिला। अगले दिन प्रतिमा का विधिवत विसर्जन किया गया, जो समुदाय की गहन श्रद्धा और समर्पण का प्रतीक रहा। इस आयोजन ने आध्यात्मिक जुड़ाव को सुदृढ़ किया और सभी प्रतिभागियों में आशा और प्रेरणा का संचार किया।





अर्पण ओरिएंटेशन –13 फरवरी 2025

13 फरवरी 2025 को सभी नवागंतुक छात्रों को अर्पण ओरिएंटेशन में आमंत्रित किया गया, जहाँ सामाजिक सेवा परिषद के महत्व को विस्तारपूर्वक समझाया गया। अर्पण से जुड़े सदस्यों का परिचय कराया गया और इस पहल के इतिहास, उद्देश्य तथा कार्यप्रणाली की जानकारी दी गई। इस सत्र ने नए छात्रों को यह समझने में सहायता की कि वरिष्ठों और स्नातक छात्रों द्वारा आसपास के गाँवों के उत्थान हेतु किए जा रहे सामूहिक प्रयास कितने महत्वपूर्ण हैं। यह ओरिएंटेशन संस्थान समुदाय की सामाजिक कल्याण के प्रति सामूहिक जिम्मेदारी को उजागर करता है।

इस आयोजन ने नवागंतुकों को अर्पण के मिशन — जागरूकता फैलाने और आसपास के क्षेत्रों में शिक्षा को बढ़ावा देने — में सक्रिय भागीदारी हेतु प्रेरित किया। कुल मिलाकर, यह सत्र इस महान उद्देश्य के प्रति प्रतिबद्धता और प्रेरणा की भावना को सुदृढ़ करने वाला रहा।

स्वच्छता पखवाड़ा रिपोर्ट –मार्च 2025

स्वच्छता पखवाड़ा अभियान का सफलतापूर्वक आयोजन किया गया, जिसमें RGIPT के छात्र, शिक्षक, कर्मचारी, सामाजिक सेवा परिषद "अर्पण," जायस नगर पालिका, स्थानीय निवासी और आसपास के स्कूलों के छात्रों ने सक्रिय रूप से भाग लिया। परिसर और गांवों की सफाई अभियान, सैनिटरी पैड और कपड़े के थैले वितरण, स्वच्छता और कचरा पृथक्करण पर जागरूकता कार्यशालाएं, सामुदायिक सहभागिता सत्र, निबंध लेखन, चित्रकला और सोशल मीडिया रील प्रतियोगिताएं, वृक्षारोपण अभियान और सार्वजनिक स्थलों पर डस्टबिन वितरण, सार्वजनिक स्वच्छता में उल्लेखनीय सुधार, मासिक धर्म स्वास्थ्य के प्रति जागरूकता में वृद्धि, प्लास्टिक उपयोग में कमी और पर्यावरणीय जिम्मेदारी को बढ़ावा, स्वच्छता और सततता के प्रति सामुदायिक स्वामित्व की भावना का विकास. अभियान का समापन एक सम्मान समारोह के साथ हुआ, जिसमें सभी योगदानकर्ताओं को सराहना और सम्मान प्रदान किया गया।

आयोजित गतिविधियाँ (विस्तृत विवरण)

- प्रतिज्ञा समारोह – निदेशक प्रो .आलोक के .सिंह के नेतृत्व में स्वच्छता के प्रति प्रतिबद्धता की पुनः पुष्टि।
- परिसर सफाई अभियान – कार्यालय के प्रवेश द्वार, इनडोर क्षेत्र और खेल सुविधाओं की गहन सफाई।
- परिसर के बाहर सफाई – विशेष रूप से खाद्य विक्रेताओं के पास की सड़कों की सफाई; कचरा नियंत्रण की शुरुआत।
- सैनिटरी पैड वितरण अभियान – रानीगंज, पुराफतेह, मवाई आलमपुर और पुराचौहान गांवों में संचालित।
- कपड़े के थैले वितरण अभियान – बाजारों और आवासीय क्षेत्रों में पर्यावरण अनुकूल थैलों का प्रचार।
- जायस तहसील के सार्वजनिक स्थलों की सफाई – सड़कों, मंदिरों और ब्लॉक कार्यालयों की सफाई।
- गांवों में जागरूकता कार्यशालाएं – कचरा पृथक्करण, स्वच्छता और सततता पर सत्र।
- पोस्टर और बैनर प्रदर्शन – रानीगंज, मवाई, आलमपुर और आसपास के क्षेत्रों में जागरूकता सामग्री लगाई गई।
- डस्टबिन वितरण अभियान – सार्वजनिक स्थलों पर डस्टबिन लगाए गए ताकि कचरा कम हो और पृथक्करण को बढ़ावा मिले।
- निबंध लेखन प्रतियोगिता – छात्रों ने स्वच्छता, सफाई और सततता पर लेख लिखे।
- सोशल मीडिया रील प्रतियोगिता – प्रतिभागियों ने व्यक्तिगत सफाई प्रयासों को दर्शाते हुए वीडियो साझा किए।
- "अपना स्थान साफ करें" प्रतियोगिता – छात्रों ने अपने हॉस्टल कमरों की सफाई की; स्वच्छता और व्यवस्था के आधार पर मूल्यांकन।
- चित्रकला प्रतियोगिताएं – मूनलैंड, आदर्श पब्लिक और एकलव्य पब्लिक स्कूलों में आयोजित; प्लेग्रुप छात्रों के लिए कला के माध्यम से स्वच्छता की अवधारणा प्रस्तुत की गई।
- गणमान्य व्यक्तियों द्वारा संगोष्ठी – जायस नगर पालिका के प्रतिनिधियों, पर्यावरण विशेषज्ञों और विश्वविद्यालय नेताओं द्वारा विचार-विमर्श।
- वृक्षारोपण अभियान – स्वयंसेवकों और समुदाय के सदस्यों द्वारा पर्यावरणीय स्थिरता को बढ़ावा देने हेतु वृक्षारोपण।
- सम्मान समारोह – छात्रों, कर्मचारियों और अधिकारियों को उनके सक्रिय योगदान के लिए सम्मानित किया गया।
- कचरा पृथक्करण का सार्वजनिक प्रदर्शन – स्वयंसेवकों द्वारा सही कचरा पृथक्करण तकनीकों का प्रदर्शन।
- सामुदायिक सहभागिता सत्र – स्थानीय विक्रेताओं और निवासियों को जिम्मेदार कचरा निपटान के बारे में मार्गदर्शन।
- अनुवर्ती प्रतिबद्धताएं – समुदाय ने सफाई प्रयासों को जारी रखने और नियमित निगरानी की प्रतिज्ञा ली।

राम नवमी –6 अप्रैल 2025

6 अप्रैल 2025 को राम नवमी का उत्सव विशेष आरती और पूजा अनुष्ठानों के साथ मनाया गया, जिसके बाद सभी श्रद्धालुओं को प्रसाद वितरित किया गया। कार्यक्रम में एक भावपूर्ण भजन संध्या भी आयोजित की गई, जिसने आध्यात्मिक वातावरण को समृद्ध किया। इस आयोजन ने धार्मिक अनुष्ठानों के महत्व को उजागर किया और छात्रों के बीच सामुदायिक भावना और एकता को प्रबल किया। श्रद्धालु भगवान श्रीराम की पूजा करने के लिए एकत्रित हुए, जो प्रेम और ज्ञान के प्रतीक हैं, जिससे उनकी सांस्कृतिक परंपराओं से जुड़ाव और गहरा हुआ। यह आयोजन परिसर में आपसी संबंधों को मजबूत करने में सफल रहा और सभी प्रतिभागियों के लिए एक गर्मजोशी और समावेशी वातावरण का निर्माण किया।

हनुमान जयंती –12 अप्रैल 2025

12 अप्रैल 2025 को हनुमान जयंती बड़े श्रद्धा भाव से मनाई गई। इस अवसर पर विशेष आरती और पूजा का आयोजन हुआ, जिसके बाद सभी श्रद्धालुओं को प्रसाद वितरित किया गया। पूजा के बाद सुंदरकांड पाठ का आयोजन किया गया, जिससे

आध्यात्मिक अनुभव और भी गहन हुआ, साथ ही एक भजन संध्या ने वातावरण को भक्तिमय बना दिया। इस आयोजन ने धार्मिक अनुष्ठानों के महत्व को रेखांकित किया और छात्रों के बीच एकता और सामुदायिक भावना को बढ़ावा दिया। कार्यक्रम ने सांस्कृतिक परंपराओं के प्रति उनकी सराहना को गहरा किया और सामूहिक संबंधों को मजबूत किया, जिससे परिसर में एक सौहार्दपूर्ण और समावेशी वातावरण बना।

विज्ञान एवं प्रौद्योगिकी परिषद (S&T Council)

परिषद के बारे में

राजीव गांधी पेट्रोलियम प्रौद्योगिकी संस्थान (RGIPT) की विज्ञान एवं प्रौद्योगिकी परिषद नवाचार, आलोचनात्मक सोच और तकनीक-आधारित पहलों के लिए एक सक्रिय मंच के रूप में कार्य करती है। यह परिषद छात्रों में जिज्ञासा और प्रयोगशीलता की भावना को प्रोत्साहित करने का लक्ष्य रखती है, और एक सहयोगात्मक वातावरण तैयार करती है जो समस्या-समाधान, तकनीकी शिक्षा और उद्यमशीलता विकास को समर्थन देता है।

हमारा मिशन है छात्रों को वैज्ञानिक और तकनीकी क्षेत्रों में अन्वेषण और उत्कृष्टता प्राप्त करने के लिए सशक्त बनाना। **हमारी दृष्टि** है नवाचारपूर्ण सोच को विकसित करना ताकि वास्तविक जीवन की चुनौतियों का समाधान किया जा सके।

परिषद विभिन्न माध्यमों से छात्रों को व्यावहारिक अनुभव प्रदान करती है, जैसे:

- सेमिनार
- वेबिनार
- कॉन्फ्रेंस
- उद्योग से संवाद
- कार्यशालाएं
- तकनीकी सत्र
- इंटरैक्टिव गतिविधियाँ

तकनीकी ज्ञान के साथ-साथ, हम नेतृत्व, टीमवर्क, संवाद कौशल और समय प्रबंधन जैसे गुणों के विकास पर भी ध्यान केंद्रित करते हैं, जिससे छात्र एक संपूर्ण पेशेवर बन सकें।

परिषद के अंतर्गत पाँच प्रमुख क्लब संचालित होते हैं:

- **टिंकरिंग क्लब**
- **कोड क्लब)Kode Club)**
- **ई-सेल) उद्यमिता प्रकोष्ठ(**
- **एस्ट्रोनॉमी क्लब)खगोल विज्ञान क्लब(**
- **प्रोडक्ट एंड डिज़ाइन क्लब**

ये सभी क्लब मिलकर RGIPT में नवाचार, सीखने और विकास के लिए एक समग्र पारिस्थितिकी तंत्र प्रदान करते हैं।

टिंकरिंग क्लब

टिंकरिंग क्लब, RGIPT की साइंस एंड टेक्नोलॉजी काउंसिल का एक अभिन्न हिस्सा है, जो छात्र नवाचार और व्यावहारिक शिक्षा के क्षेत्र में अग्रणी भूमिका निभाता है। यह क्लब छात्रों को उनके विचारों को वास्तविकता में बदलने के लिए एक जीवंत मंच प्रदान करता है, जहाँ वे प्रयोग और रचनात्मक समस्या-समाधान के माध्यम से सीखते हैं।

छात्र यहाँ अत्याधुनिक रोबोट और रिमोट-नियंत्रित विमान बनाते हैं, साथ ही गहन कार्यशालाओं का आयोजन करते हैं। यह क्लब जिज्ञासा, तकनीकी कौशल और प्रयोगशीलता की भावना को बढ़ावा देता है। पारंपरिक शिक्षा से आगे बढ़ते हुए, यह छात्रों को नवाचार करने, जोखिम लेने और वास्तविक जीवन की चुनौतियों से जुड़ने के लिए प्रेरित करता है।

टिंकरिंग क्लब भावी इंजीनियरों, डिज़ाइनरों और तकनीकी विशेषज्ञों के लिए एक लॉन्चपैड है, जहाँ रचनात्मकता और तकनीकी उत्कृष्टता का संगम होता है। टीमवर्क और मेंटरशिप के माध्यम से छात्र डिज़ाइन थिंकिंग, प्रोटोटाइप निर्माण और परियोजना निष्पादन में बहुमूल्य अनुभव प्राप्त करते हैं।

कोड क्लब

कोड क्लब तकनीकी उत्साही छात्रों के लिए एक जीवंत समुदाय है, जहाँ नवाचार और अवसर का संगम होता है। यह क्लब वेब और ऐप विकास, कृत्रिम बुद्धिमत्ता/मशीन लर्निंग (AI/ML), ब्लॉकचेन और अन्य उभरती तकनीकों में विशेषज्ञता प्रदान करता है, जिससे सदस्य अत्याधुनिक कौशलों को सीखने और निपुणता प्राप्त करने का अवसर पाते हैं।

चाहे आप एक उत्सुक प्रारंभिक हों या सीमाओं को चुनौती देने वाले विशेषज्ञ, कोड क्लब विकास के लिए आदर्श वातावरण प्रदान करता है। सदस्य वास्तविक परियोजनाओं पर सहयोग करते हैं, व्यावहारिक अनुभव प्राप्त करते हैं, और राष्ट्रीय स्तर पर प्रतिस्पर्धा करते हुए अपनी तकनीकी दक्षता और टीमवर्क को निखारते हैं।

संकल्प वाक्य – Code. Create. Conquer.

इस मूलमंत्र के साथ कोड क्लब छात्रों को रचनात्मक विचारों को प्रभावशाली समाधान में बदलने के लिए प्रेरित और सशक्त बनाता है। यह केवल कोडिंग तक सीमित नहीं है—यह भविष्य को आकार देने और तकनीकी दुनिया में सार्थक बदलाव लाने की दिशा में एक कदम है।

ई-सेल (उद्यमिता प्रकोष्ठ)

RGIPT का ई-सेल केवल एक छात्र समूह नहीं है—यह भविष्य के परिवर्तनकारी नेताओं के लिए एक लॉन्चपैड है। हमारा उद्देश्य छात्रों में उद्यमशीलता की भावना को प्रज्वलित करना और उसे पोषित करना है, जिससे उन्हें कक्षा से बाहर व्यावहारिक अवसर मिल सकें। चाहे आपके पास कोई अनोखा विचार हो या स्टार्टअप जगत में रुचि, हम मार्गदर्शन, मेंटरशिप और व्यावहारिक अनुभव प्रदान करते हैं ताकि आप आगे बढ़ सकें।
हमारी पहलें—पिच प्रतियोगिताओं, स्टार्टअप इनक्यूबेशन कार्यक्रमों, इंटरैक्टिव सेमिनारों और अनुभवी उद्यमियों से नेटवर्किंग के माध्यम से—कच्चे विचारों को व्यावसायिक रूप में बदलने का लक्ष्य रखती हैं। हम नवप्रवर्तकों, विचारकों और रचनाकारों को एक साथ लाकर एक ऐसा सहयोगात्मक समुदाय बनाते हैं जहाँ रचनात्मकता क्रियान्वयन से मिलती है।
ई-सेल केवल व्यावसायिक ज्ञान तक सीमित नहीं है; यह एक ऐसा दृष्टिकोण विकसित करता है जो सोच-समझकर जोखिम लेने, असफलताओं से सीखने और तेजी से अनुकूलन को प्रोत्साहित करता है। मेंटर्स, उद्योग विशेषज्ञों और पूर्व छात्रों के बढ़ते नेटवर्क के माध्यम से हम हर छात्र को अपनी क्षमता को खोजने और सार्थक प्रभाव डालने के लिए सशक्त बनाते हैं।

हमारा मूल विश्वास: केवल सपना मत देखो—उसे साकार करो।

एस्ट्रोनॉमी क्लब (ASPAC)

RGIPT का ASPAC खगोल विज्ञान और अंतरिक्ष प्रेमियों का एक उत्साही समुदाय है, जो निरंतर आकाश की ओर देखने से खुद को रोक नहीं पाता। चाहे आप एक जिज्ञासु प्रारंभिक हों या नक्षत्रों और खगोलीय यांत्रिकी में पारंगत, यहाँ हर किसी के

लिए स्थान है। हमारा विश्वास है कि अंतरिक्ष केवल वैज्ञानिकों के लिए नहीं है—यह उन सभी के लिए है जो कभी रात के आकाश को देखकर यह सोचते हैं: "वहाँ क्या है?"

ASPAC में हम इस जिज्ञासा को अनुभव में बदलते हैं—तारामंडल अवलोकन रात्रियाँ, टेलीस्कोप सत्र, विशेषज्ञ वार्ताएं, खगोल विज्ञान क्विज़ और व्यावहारिक कार्यशालाओं के माध्यम से। ग्रहों और नीहारिकाओं की पहचान से लेकर ब्लैक होल और समय प्रसारण (टाइम डाइलेशन) जैसे जटिल विषयों तक, हम मिलकर ब्रह्मांड की खोज करते हैं।

लेकिन विज्ञान से परे, ASPAC एक समुदाय है—हर बैठक एक ऐसा स्थान है जहाँ आप अपनी कहानियाँ साझा कर सकते हैं, कोई भी (चाहे जितना भी अनोखा) प्रश्न पूछ सकते हैं, और उन लोगों से जुड़ सकते हैं जिनमें वही ब्रह्मांडीय जिज्ञासा है।

यदि आपने कभी आकाश की ओर देखा है और आश्चर्य की एक चिंगारी महसूस की है—तो ASPAC वह जगह है जहाँ वह चिंगारी एक यात्रा बन जाती है।

हमसे जुड़िए—और चलिए ब्रह्मांड की खोज करें, एक तारे से शुरुआत करते हुए।

प्रोडक्ट-डिज़ाइन क्लब

हम यहाँ छात्रों में जिज्ञासा की चिंगारी जगाने और सीमाओं को चुनौती देने के लिए हैं—उन्हें केवल सिद्धांतों के माध्यम से नहीं, बल्कि वास्तविक, व्यावहारिक अनुभव के ज़रिए विज्ञान और तकनीक की दुनिया में गहराई से उतरने के लिए प्रेरित करते हैं।

हमारी मूल सोच है—विचारों को प्रभाव में बदलना।
इसीलिए हम छात्रों को अलग सोचने, साहसपूर्वक नवाचार करने और आत्मविश्वास के साथ वास्तविक जीवन की चुनौतियों को स्वीकार करने के लिए प्रेरित करते हैं। चाहे वह विचारोत्तेजक सेमिनार हों, इंटरैक्टिव वेबिनार, या राष्ट्रीय स्तर के कॉन्फ्रेंस—हम तकनीक और विज्ञान की नवीनतम प्रवृत्तियों और विशेषज्ञों से जुड़ने के अवसर प्रदान करते हैं। लेकिन यह केवल सीखने तक सीमित नहीं है—यह करने के बारे में है।

हमारी कार्यशालाएं और सत्र व्यावहारिक कौशल विकसित करने, रचनात्मकता को प्रज्वलित करने और छात्रों को अपने विचारों को साकार करने में मदद करने के लिए डिज़ाइन किए गए हैं। इस यात्रा के दौरान, सदस्य बेहतर नेता, संवादकर्ता और टीम खिलाड़ी बनते हैं—ऐसे कौशल जो कक्षा से कहीं आगे तक काम आते हैं।

चाहे आप कोडिंग, रोबोटिक्स, अनुसंधान में रुचि रखते हों या बस नई चीज़ों को खोजने की चाह रखते हों—हमारे पास आपके लिए कुछ न कुछ ज़रूर है।

तो आइए, उस स्थान का हिस्सा बनिए जहाँ विचार फलते-फूलते हैं, समस्याएँ संभावनाओं में बदलती हैं, और जुनून एक उद्देश्य बन जाता है। आइए मिलकर बनाएँ, हल करें और आगे बढ़ें।



उर्जोत्सव –9–10 नवंबर 2024

राजीव गांधी पेट्रोलियम प्रौद्योगिकी संस्थान (RGIPT) का राष्ट्रीय स्तर का प्रमुख तकनीकी और उद्यमिता महोत्सव **उर्जोत्सव** नवाचार, नेतृत्व और सहयोग का उत्सव है। विज्ञान एवं तकनीकी परिषद द्वारा आयोजित यह प्रतिष्ठित आयोजन तकनीकी उत्कृष्टता और बौद्धिक जिज्ञासा की भावना को दर्शाता है।

यह केवल एक कार्यक्रम नहीं, बल्कि एक अनुभव था—जहाँ छात्रों ने व्यावहारिक गतिविधियों, रणनीतिक योजना और वास्तविक समस्याओं के समाधान में भाग लिया। यह मंच नवोदित इंजीनियरों, उद्यमियों और नवप्रवर्तकों को अपने विचार प्रस्तुत करने, विभिन्न क्षेत्रों में सहयोग करने और व्यक्तिगत व व्यावसायिक विकास के लिए आवश्यक कौशल विकसित करने का अवसर प्रदान करता है।

इस वर्ष की थीम "कॉस्मिक कन्वर्जेंस" ने विविध क्षेत्रों के एकीकरण को दर्शाया—जैसे ब्रह्मांडीय शक्तियाँ मिलकर सृष्टि का निर्माण करती हैं। प्रतिभागियों को पार-अनुशासनात्मक विचारों को खोजने, रचनात्मकता और तकनीक को मिलाने तथा पारंपरिक सोच की सीमाओं को चुनौती देने के लिए प्रेरित किया गया।

कार्यक्रम अवलोकन –उर्जोत्सव 2024

उर्जोत्सव 2024 तकनीक, नवाचार और युवा ऊर्जा का बहुआयामी उत्सव रहा, जिसमें कई आकर्षक गतिविधियाँ और प्रभावशाली सत्र शामिल थे:

- **प्रतियोगिताएँ**: ब्रिज मेकिंग, रोबोटिक्स चैलेंज, और प्रतिस्पर्धात्मक कोडिंग जैसी तकनीकी प्रतियोगिताओं ने समस्या-समाधान, रचनात्मकता और सहयोग को बढ़ावा दिया।
- **विज्ञान मेला**: सामाजिक सेवा परिषद "अर्पण" द्वारा आयोजित, जिसमें कक्षा 9–12 के 60+ स्कूल टीमों ने भाग लिया। PPS स्कूल प्रथम स्थान पर रहा, DAV और SJS ने क्रमशः दूसरा और तीसरा स्थान प्राप्त किया।
- **गेमिंग टूर्नामेंट**: BGMI, रोड टू वेलर और बुलेट ईको जैसे ई-स्पोर्ट्स ने रणनीतिक सोच और टीम भावना को प्रोत्साहित किया।
- **गेस्ट लेक्चर**: श्री आशिष त्रिपाठी)इन्फोसिस(, प्रो .राजकुमार पंत) IIT बॉम्बे(, और डॉ .सुमन जना ने नवाचार, नैतिक तकनीक और भविष्य की तकनीकी दिशा पर विचार प्रस्तुत किए।
- **नवाचार और अक्षय ऊर्जा चुनौतियाँ**: थीम आधारित प्रतियोगिताओं ने छात्रों को सतत और भविष्य उन्मुख समाधान प्रस्तुत करने के लिए प्रेरित किया।
- **सांस्कृतिक संध्या**: संगीत, नृत्य, कविता और दृश्य कला ने उत्सव को रंगीन और जीवंत बनाया।
- **समापन समारोह**: IAS सूरज पटेल ने छात्रों को नवाचार को सामाजिक जिम्मेदारी के साथ जोड़ने की प्रेरणा दी।
- **EDM नाइट**: प्रेरक आनंद के प्रदर्शन ने रोशनी, संगीत और युवा ऊर्जा के साथ उत्सव का भव्य समापन किया।

प्रमुख उपलब्धियाँ और व्याख्यान श्रृंखला

उर्जोत्सव 2024 में विभिन्न तकनीकी क्षेत्रों के विशेषज्ञों और विचारकों ने भाग लिया। प्रमुख सत्रों की झलक:

- **LTA सिस्टम्स और स्वायत्त हवाई परियोजनाएँ** – प्रो .राजकुमार पंत ने हॉट एयर बलून और एयरोस्टैट्स जैसी तकनीकों की आपदा प्रबंधन और ग्रामीण संपर्क में उपयोगिता पर प्रकाश डाला।
- **AR/VR पर सेमिनार** – श्री निखिल भटनागर ने स्वास्थ्य और शिक्षा में AR/VR की भूमिका पर चर्चा की और इसे समाज में सकारात्मक बदलाव का उपकरण बताया।

- **AI और उभरती तकनीकों पर व्याख्यान** – श्री आशिष त्रिपाठी ने स्वास्थ्य, वित्त और सेवाओं में AI के नैतिक और सतत उपयोग पर जोर दिया।
- **मशीन लर्निंग सुरक्षा पर व्याख्यान** – डॉ .सुमन जना ने ML सिस्टम्स में बढ़ती सुरक्षा चुनौतियों और मजबूत फ्रेमवर्क की आवश्यकता पर बात की।
- **सामाजिक उत्तरदायित्व पर समापन भाषण** – IAS सूरज पटेल ने छात्रों को सहानुभूति के साथ नवाचार करने और सार्वजनिक हित से जोड़ने की प्रेरणा दी।
- **हाइड्रोजन ऊर्जा समाधान पर व्याख्यान** – डॉ .दादासाहेब शेंडगे ने स्टीम इलेक्ट्रोलिसिस द्वारा स्वच्छ ईंधन के रूप में हाइड्रोजन की संभावनाओं पर चर्चा की।

भागीदारी आँकड़े

उर्जोत्सव 2024 में निम्नलिखित तकनीकी प्रतियोगिताएँ आयोजित की गईं:

Urja Experience, Wall Maze Solver, Water Rocket, Creative CAD Challenge, Line Follower Robot, Robo Soccer, RC Plane, AI Art Battle, Hydraulic Arm, Trader's Arena, Innovation Challenge, Tech Trivia Quiz, Line Maze Solver, Techno MUN, Egg Drop, Bridge Making, Competitive Coding, RC Boat, Code Decipher, Capital Quest, Renewable Energy Challenge, Kick Detection, Blockseblock, Battle-Verse, Galactic Video Challenge

टिंकरिंग क्लब – आयोजित कार्यक्रम

बॉट्स प्रदर्शनी – SCHEMCON में, 20 सितंबर 2024

SCHEMCON 2024 के दौरान आयोजित बॉट्स प्रदर्शनी ने रोबोटिक्स और ऑटोमेशन में नवाचार को प्रदर्शित करने के लिए एक प्रेरणादायक मंच प्रदान किया। RGIPT और अन्य संस्थानों के छात्रों ने विभिन्न प्रकार के कार्यशील बॉट्स प्रस्तुत किए, जिनमें औद्योगिक ऑटोमेशन, स्मार्ट असिस्टेंस और गतिशीलता समाधान जैसे कई क्षेत्रों में उनके अनुप्रयोगों को दर्शाया गया। इस कार्यक्रम ने रचनात्मक सोच, व्यावहारिक समस्या-समाधान और सहयोग को प्रोत्साहित किया, साथ ही यह दर्शाया कि कैसे रोबोटिक्स वास्तविक दुनिया की चुनौतियों को तकनीकी अवसरों में बदलने में महत्वपूर्ण भूमिका निभा रहा है।

बॉट निर्माण सत्र – उर्जोत्सव के लिए, 16 अक्टूबर 2024

उर्जोत्सव 2024 की तैयारी के तहत, टिंकरिंग क्लब ने छात्रों में व्यावहारिक शिक्षा को बढ़ावा देने और उनकी सक्रिय भागीदारी को प्रोत्साहित करने के लिए बॉट निर्माण सत्रों का आयोजन किया। इन इंटरैक्टिव कार्यशालाओं में प्रतिभागियों को रोबोटिक्स की मूल बातें सिखाई गईं, जिनमें सर्किटरी, डिज़ाइन और प्रोग्रामिंग शामिल थीं। छात्रों को बॉट निर्माण की पूरी प्रक्रिया में मार्गदर्शन प्रदान किया गया, जिससे उनकी तकनीकी दक्षता और रचनात्मकता में वृद्धि हुई।

उर्जोत्सव में भागीदारी – 9 से 10 नवंबर 2024

टिंकरिंग क्लब ने उर्जोत्सव 2024 में प्रभावशाली उपस्थिति दर्ज कराई, जहां उसने विभिन्न रोबोटिक्स और इंजीनियरिंग प्रतियोगिताओं में सक्रिय रूप से भाग लिया। क्लब के सदस्यों ने लाइन फॉलोअर, रोबोसॉकर, वॉल मेज़ सॉल्वर, आरसी बोट और आरसी प्लेन चैलेंज जैसे आयोजनों में अपनी तकनीकी दक्षता का प्रदर्शन किया। उनके नवोन्मेषी डिज़ाइनों, टीमवर्क और समस्या-समाधान क्षमताओं की व्यापक सराहना की गई, और कई टीमों ने विभिन्न प्रतियोगिताओं में शीर्ष स्थान प्राप्त किए।

इस भागीदारी ने रचनात्मकता और व्यावहारिक इंजीनियरिंग उत्कृष्टता को बढ़ावा देने की क्लब की प्रतिबद्धता को उजागर किया।

टिंकरिंग क्लब का परिचय – 20 फरवरी 2025

टिंकरिंग क्लब ने प्रथम वर्ष के छात्रों का स्वागत करने और उन्हें क्लब की दृष्टि एवं गतिविधियों से परिचित कराने के लिए एक रोचक परिचयात्मक सत्र आयोजित किया। इस सत्र में क्लब के हार्डवेयर-आधारित नवाचार, प्रोटोटाइप निर्माण और व्यावहारिक समस्या-समाधान पर केंद्रित दृष्टिकोण को प्रमुखता से प्रस्तुत किया गया। छात्रों को क्लब की व्यावहारिक शिक्षा की संस्कृति और विज्ञान एवं प्रौद्योगिकी परिषद में इसकी महत्वपूर्ण भूमिका से अवगत कराया गया, जिससे उन्हें भविष्य की परियोजनाओं और कार्यशालाओं में सक्रिय भागीदारी के लिए प्रेरित किया गया।

टेककृति'25 में भागीदारी – 27 से 30 मार्च 2025

टिंकरिंग क्लब के सदस्यों ने IIT कानपुर के वार्षिक टेक्नो-मैनेजमेंट महोत्सव टेककृति'25 में RGIPT का गर्वपूर्वक प्रतिनिधित्व किया। उन्होंने विभिन्न तकनीकी प्रतियोगिताओं में भाग लेते हुए अपनी इंजीनियरिंग क्षमताओं और नवोन्मेषी परियोजनाओं का प्रदर्शन किया। यह महोत्सव छात्रों को देशभर के तकनीकी उत्साही लोगों के साथ सहयोग, सीखने और नेटवर्किंग का उत्कृष्ट मंच प्रदान करता है, जिससे उन्हें वास्तविक जीवन की समस्याओं के समाधान और अत्याधुनिक तकनीकों के प्रति बेहतर समझ प्राप्त हुई।

परियोजना विचार प्रस्तुति – 5 अप्रैल 2025

टिंकरिंग क्लब ने विज्ञान एवं प्रौद्योगिकी परिषद के सहयोग से नवाचार और बहुविषयक सहयोग को बढ़ावा देने के लिए एक प्रेरणादायक परियोजना विचार चर्चा सत्र का आयोजन किया। इस सत्र में छात्रों ने कृत्रिम बुद्धिमत्ता, रोबोटिक्स, सतत विकास और डेटा-आधारित तकनीकों से संबंधित रचनात्मक विचार प्रस्तुत किए। सत्र में शोध-आधारित सोच, व्यावहारिक विकास और सहपाठी शिक्षण पर विशेष बल दिया गया। प्रतिभागियों को रचनात्मक सुझाव और मार्गदर्शन प्राप्त हुआ, जिससे विचारों को क्रियान्वित परियोजनाओं में बदलने की नींव रखी गई। यह पहल RGIPT में एक जीवंत नवाचार पारिस्थितिकी तंत्र के निर्माण की दिशा में एक महत्वपूर्ण कदम सिद्ध हुई।

कोड क्लब – आयोजित कार्यक्रम

GSoC सत्र – 16 फरवरी 2025

Google Summer of Code (GSoC) पर एक विशेष सत्र का आयोजन प्रतिष्ठित पूर्व छात्र आयुष राठौर सर द्वारा किया गया। इस सत्र में GSoC आवेदन प्रक्रिया, परियोजना चयन की रणनीतियाँ, और ओपन-सोर्स संगठनों में प्रभावी योगदान देने के तरीकों पर महत्वपूर्ण जानकारी प्रदान की गई। यह सत्र प्रेरणादायक और ज्ञानवर्धक रहा, जिसने प्रतिभागियों को वैश्विक ओपन-सोर्स समुदायों से जुड़ने के लिए प्रोत्साहित किया।

कोड डीसाइफर / कोडिंग प्रतियोगिता – 12 सितंबर 2024

कोड क्लब ने एक 2 घंटे की कोडिंग प्रतियोगिता का आयोजन किया, जिसमें प्रथम, द्वितीय और तृतीय वर्ष के छात्र एक साथ शामिल हुए। इस कार्यक्रम का उद्देश्य प्रतिस्पर्धात्मक लेकिन सहयोगात्मक वातावरण में कोडिंग कौशल, टीमवर्क और समस्या-समाधान क्षमताओं को बढ़ाना था। इस प्रतियोगिता में 80 से अधिक प्रतिभागियों ने भाग लिया, जिन्होंने विभिन्न शैक्षणिक वर्षों के छात्रों के साथ मिलकर टीमें बनाई।

कार्यशालाएँ

छात्रों के व्यावहारिक कौशल और उद्योग से जुड़ी समझ को बढ़ाने के लिए एक प्रभावशाली तकनीकी कार्यशालाओं की श्रृंखला आयोजित की गई। इन कार्यशालाओं में ओपन सोर्स, वेब डेवलपमेंट, ऐप डेवलपमेंट और AI/ML जैसे विषयों को शामिल किया गया। प्रत्येक सत्र ने प्रतिभागियों को व्यावहारिक अनुभव, विशेषज्ञ मार्गदर्शन और इंटरैक्टिव शिक्षण प्रदान किया, जिससे वे अत्याधुनिक तकनीकों में मजबूत नींव बना सके।

भाषा बंधु हैकाथॉन – 21 फरवरी 2025

ID8NXT द्वारा RGIPT में आयोजित माइक्रोसॉफ्ट भाषा बंधु हैकाथॉन ने भाषाई सुलभता को बढ़ाने के उद्देश्य से प्रतिभाशाली युवाओं को एक मंच पर सफलतापूर्वक एकत्रित किया। इस कार्यक्रम ने भाषा की बाधाओं को दूर करने और बहुभाषीय समावेशन को बढ़ावा देने पर केंद्रित तकनीक-आधारित नवाचारों को प्रोत्साहित किया।

हैकाथॉन ने प्रतिभागियों को तकनीकी दक्षता और आयोजन प्रबंधन कौशल प्रदर्शित करने का व्यापक मंच प्रदान किया—जिसमें लॉजिस्टिक्स समन्वय से लेकर सार्थक समस्या कथनों की रूपरेखा तैयार करना शामिल था। प्रतिभागियों को सहयोग करते हुए, विचार-मंथन करते हुए और वास्तविक जीवन की चुनौतियों को संबोधित करने वाले विचार प्रस्तुत करते देखना अत्यंत प्रेरणादायक रहा।

इस आयोजन ने भविष्य की पहलों के प्रति उत्साह जगाया, और हम ऐसे और हैकाथॉन आयोजित करने की आशा करते हैं जो तकनीक के माध्यम से सामाजिक प्रभाव को सार्थक रूप दें।

IoT और LTA कार्यशाला – 22 से 23 मार्च 2025

IIT बॉम्बे के प्रो. आर.के. पंत द्वारा आयोजित हॉट एयर बैलून कार्यशाला ने पारंपरिक और उन्नत हॉट एयर बैलून इंजीनियरिंग के पहलुओं में दो दिवसीय गहन अनुभव प्रदान किया।

पहला दिन एक प्रतिस्पर्धात्मक चुनौती के रूप में आयोजित किया गया, जिसमें प्रतिभागियों ने अधिकतम पेलोड दक्षता प्राप्त करने और बैलून को छत तक पहुँचाने का लक्ष्य रखा। रणनीतिक डिज़ाइन और प्रभावी टीमवर्क के माध्यम से प्रतिभागियों ने अपनी इंजीनियरिंग क्षमताओं का प्रदर्शन किया और प्रतियोगिता में दूसरा स्थान प्राप्त किया।

दूसरे दिन IoT (इंटरनेट ऑफ थिंग्स) तकनीक को हॉट एयर बैलून के साथ एकीकृत करने पर ध्यान केंद्रित किया गया, जिसमें प्रदर्शन और संचालन क्षमताओं को बढ़ाने वाले नवाचारों को प्रस्तुत किया गया। इस सत्र ने प्रतिभागियों को अत्याधुनिक तकनीकी प्रगति से परिचित कराया, यह दर्शाते हुए कि आधुनिक तकनीक किस प्रकार पारंपरिक इंजीनियरिंग क्षेत्रों में क्रांति ला सकती है।

कुल मिलाकर, यह कार्यशाला व्यावहारिक शिक्षा, रचनात्मकता, टीमवर्क और वास्तविक जीवन की परिस्थितियों में इंजीनियरिंग अवधारणाओं के अनुप्रयोग को बढ़ावा देने वाली रही।

ई-सेल कार्यक्रम

कॉर्पोरेट ड्यूल – 15 फरवरी 2025

कॉर्पोरेट ड्यूल ने वास्तविक व्यापार परिदृश्यों का अनुकरण किया, जिसमें प्रतिभागियों ने संसाधनों का प्रबंधन किया, विभिन्न बाजार क्षेत्रों में प्रतिस्पर्धा की, और बाज़ार पर प्रभुत्व स्थापित करने के लिए गतिशील रणनीतियाँ अपनाईं। इस प्रतियोगिता में सफलता समय पर रणनीतिक निर्णय लेने और बदलते व्यापारिक हालात व प्रतिस्पर्धियों की चालों के अनुसार शीघ्रता से अनुकूलन पर निर्भर थी।

एंटरप्रेन्योर'स एस्केप – 28 मार्च 2025

एस्केप रूम चैलेंज ने एक तीव्र और दबावपूर्ण सिमुलेशन प्रस्तुत किया, जिसमें टीमों को एक संकटग्रस्त स्टार्टअप को बचाने का कार्य सौंपा गया। केवल 60 मिनट में, प्रतिभागियों को कंपनी संचालन के महत्वपूर्ण पहलुओं से जुड़े व्यापारिक पहेलियों की एक श्रृंखला को हल करना था। यह आयोजन वास्तविक व्यापारिक दबावों के तहत उनकी समस्या-समाधान क्षमता और टीमवर्क का परीक्षण करने वाला रहा।

मैथ-ए-थॉन – 6 अप्रैल से 12 अप्रैल 2025

मैथ-ए-थॉन एक रोमांचक 7-दिवसीय ऑनलाइन मानसिक गणित प्रतियोगिता थी, जो लगातार चुनौतियों, रोचक पहेलियों और आकर्षक पुरस्कारों से भरपूर रही। इस प्रतियोगिता का उद्देश्य प्रतिभागियों की संख्यात्मक चपलता और प्रतिस्पर्धात्मक भावना को तेज करना था। आयोजन ने छात्रों को तेज सोच, सटीक गणना और रणनीतिक समाधान के माध्यम से अपनी क्षमताओं को निखारने का अवसर प्रदान किया।

ASPAC – ASTRONOVA न्यूज़लेटर लॉन्च

RGIPT का एस्ट्रोनॉमी और स्पेस क्लब (ASPAC) हाल ही में ASTRONOVA नामक अपने आधिकारिक न्यूज़लेटर के लॉन्च के साथ एक रोमांचक यात्रा पर अग्रसर हुआ। इस संस्करण में खगोल विज्ञान और अंतरिक्ष अन्वेषण की दुनिया से नवीनतम खोजों, अंतर्दृष्टियों और अपडेट्स को उजागर किया गया, जिससे छात्रों और अंतरिक्ष प्रेमियों को ज्ञान और रचनात्मकता की एक ब्रह्मांडीय यात्रा में सम्मिलित किया गया।

लॉन्च कार्यक्रम में योगदान के लिए एक खुला निमंत्रण भी शामिल था, जिसमें सदस्यों को लेख, फ़ोटोग्राफ़ और ब्रह्मांड पर व्यक्तिगत विचार प्रस्तुत करने के लिए आमंत्रित किया गया। इस पहल ने प्रतिभागियों को अपनी अनूठी दृष्टिकोण साझा करने के लिए प्रोत्साहित किया, जिससे क्लब के भीतर सामूहिक सीखने के अनुभव को समृद्ध किया गया। योगदान जमा करने की अंतिम तिथि 20 मार्च 2024 निर्धारित की गई थी।

इस पहल के माध्यम से ASPAC ने अंतरिक्ष अन्वेषण के प्रति जिज्ञासा और उत्साह को सफलतापूर्वक प्रज्वलित किया, और एक ऐसे समुदाय को सशक्त किया जो अपनी ब्रह्मांडीय रुचि से एकजुट है। न्यूज़लेटर ने न केवल ज्ञान के प्रसार का मंच प्रदान किया, बल्कि व्यक्तिगत अभिव्यक्ति को भी बढ़ावा दिया, जिससे सदस्यों को सितारों की ओर देखने और खोज की भावना को जीवनभर बनाए रखने के लिए प्रेरित किया गया।

स्मार्ट इंडिया हैकाथॉन 2024 में राष्ट्रीय स्तर पर सफलता

टीम Error404, जिसमें विज्ञान एवं प्रौद्योगिकी परिषद के सदस्य शामिल थे, ने स्मार्ट इंडिया हैकाथॉन (SIH) 2024 – सॉफ्टवेयर संस्करण में राष्ट्रीय विजेता का खिताब हासिल किया। यह प्रतियोगिता भारत सरकार के शिक्षा मंत्रालय द्वारा आयोजित की गई थी।

टीम ने "प्राथमिक और माध्यमिक शिक्षा पाठ्यक्रम में उद्योग-प्रासंगिक व्यावसायिक प्रशिक्षण को एकीकृत करना" (समस्या कथन ID: SIH1667) शीर्षक वाली चुनौती को सफलतापूर्वक हल किया। उनका समाधान नवाचार, व्यावहारिकता और सामाजिक प्रभाव का उत्कृष्ट उदाहरण था।

टीम सदस्य:

- खुशी कालरा (टीम लीड(, ऋषित तिवारी, ऋषि जैन, रोहित शर्मा, स्वयांशु राउत, शिखर

यह उल्लेखनीय उपलब्धि टीम की **नवाचार भावना**, **सहयोगात्मक प्रयास** और **तकनीकी उत्कृष्टता** को दर्शाती है, जो वास्तविक जीवन की समस्याओं को तकनीक के माध्यम से हल करने की उनकी प्रतिबद्धता को उजागर करती है।

स्मार्ट इंडिया हैकाथॉन 2024 में टीम Mini Juris 2.0 की जीत

टीम Mini Juris 2.0, जिसमें विज्ञान एवं प्रौद्योगिकी परिषद से जुड़े सदस्य शामिल थे, ने स्मार्ट इंडिया हैकाथॉन (SIH) 2024 – सॉफ्टवेयर संस्करण में विजेता स्थान प्राप्त किया। यह प्रतिष्ठित प्रतियोगिता भारत सरकार के संचार मंत्रालय द्वारा आयोजित की गई थी।

टीम ने **"इंडिया पोस्ट नेटवर्क के लिए एक डिजिटल BRSR प्लेटफ़ॉर्म"** (समस्या कथन ID: **SIH1754**) को सफलतापूर्वक हल किया। उन्होंने एक **नवोन्मेषी और स्केलेबल डिजिटल समाधान** प्रस्तुत किया, जो डाक प्रणाली की आवश्यकताओं के अनुरूप था।

यह उपलब्धि टीम की **तकनीकी दक्षता**, **समस्या समाधान क्षमता**, और **डिजिटल नवाचार** के प्रति प्रतिबद्धता को दर्शाती है।

टीम सदस्य:

सम्मिंगा साईनाथ राव (टीम लीड), सनी कुमार, देबप्रतिम सोम, पुलकित चटवाल, आदित्य बक्शी, नंदिनी भल्ला

इनकी उपलब्धि दर्शाती है कि टीम में मजबूत तकनीकी क्षमताएं, समस्या समाधान कौशल, और राष्ट्रीय स्तर पर प्रभावशाली नवाचार के प्रति गहरी प्रतिबद्धता मौजूद है।

यह सफलता न केवल उनके कौशल का प्रमाण है, बल्कि यह भी दर्शाती है कि वे सामाजिक और तकनीकी चुनौतियों को दूर करने के लिए समर्पित हैं।

RGIPT का राष्ट्रीय स्तर पर प्रतिनिधित्व: IIT बॉम्बे में GenAI हैकाथॉन

विज्ञान एवं प्रौद्योगिकी परिषद के सचिव अंकुर कुमार और उनकी टीम ने 18–19 जनवरी 2025 को IIT बॉम्बे में आयोजित प्रतिष्ठित Level SuperMind Hackathon में भाग लिया। यह 24 घंटे का जनरेटिव एआई-केंद्रित हैकाथॉन, Level SuperMind द्वारा प्रसिद्ध शिक्षाविद् हितेश चौधरी के सहयोग से आयोजित किया गया था।

इस प्रतियोगिता में 23,000+ आवेदकों में से केवल 500 प्रतिभागियों का चयन किया गया, जो इसकी प्रतिस्पर्धात्मकता और प्रतिष्ठा को दर्शाता है।

प्रतियोगिता का उद्देश्य था जनरेटिव एआई का उपयोग करके अत्याधुनिक समाधान विकसित करना, जिसमें प्रतिभागियों को AWS जैसे उद्योग दिग्गजों से मार्गदर्शन और सहयोग प्राप्त हुआ।

अंकुर और उनकी टीम की भागीदारी न केवल आधुनिक तकनीकों के प्रति उनकी प्रतिबद्धता को दर्शाती है, बल्कि यह भी प्रमाणित करती है कि RGIPT राष्ट्रीय नवाचार परिदृश्य में तेजी से उभर रहा है। IEEE RGIPT छात्र शाखा द्वारा आयोजित KodeKurrent हैकाथॉन में सफलता

AlgoUniversity Technology Fellowship India 2024 में चयन

AlgoUniversity Technology Fellowship India 2024 के लिए चयनित होना एक **गौरवपूर्ण और प्रतिष्ठित उपलब्धि** है। यह फेलोशिप देशभर के तकनीकी प्रतिभाओं को पहचानने और उन्हें उन्नत तकनीकी प्रशिक्षण, मेंटरशिप और नवाचार के अवसर प्रदान करने के उद्देश्य से प्रदान की जाती है।

आदित्य नारायण (वेब डेवलपमेंट समन्वयक, विज्ञान एवं प्रौद्योगिकी परिषद, RGIPT) ने एक **उल्लेखनीय उपलब्धि** हासिल की है, उन्हें **AlgoUniversity Technology Fellowship India 2024** में **देशभर के शीर्ष 70 छात्रों** में स्थान प्राप्त हुआ।

उनका चयन न केवल **व्यक्तिगत उत्कृष्टता** को दर्शाता है, बल्कि यह भी प्रमाणित करता है कि **विज्ञान एवं प्रौद्योगिकी परिषद** अपने सदस्यों में **नवाचार**, **विकास**, और **तकनीकी नेतृत्व** को बढ़ावा देने के लिए प्रतिबद्ध है।

GirlScript Summer of Code (GSSoC) 2024 में उत्कृष्ट प्रदर्शन

आदित्य नारायण (वेब डेवलपमेंट समन्वयक) और माना अजमेरा ने GirlScript Summer of Code (GSSoC) 2024 में अपनी असाधारण प्रतिभा का प्रदर्शन किया। यह एक अंतरराष्ट्रीय ओपन-सोर्स कार्यक्रम है, जिसमें 17,000+ प्रतिभागियों ने भाग लिया।

- आदित्य ने 16वां स्थान प्राप्त किया, माना ने 39वां स्थान हासिल किया, दोनों को शीर्ष 50 वैश्विक योगदानकर्ताओं में स्थान मिला

इन्होंने कुल 200+ पुल रिक्वेस्ट सबमिट किए और 5280+ अंकों के संयुक्त स्कोर के साथ Postman API Badge सहित कई बैज अर्जित किए।

इनकी परियोजनाओं में योगदान — जैसे Swap Reads, HelpOps-Hub, और DevLabs — उनकी मजबूत तकनीकी दक्षता और सहयोगात्मक विकास के प्रति गहरी प्रतिबद्धता को दर्शाता है। यह उपलब्धि RGIPT की वैश्विक तकनीकी समुदाय में बढ़ती उपस्थिति को रेखांकित करती है और साथ ही साथ अन्य छात्रों को ओपन-सोर्स उत्कृष्टता की ओर प्रेरित करती है।

IIT कानपुर में Opportunity Open Source Conference 2024 में S&T परिषद की भागीदारी

हमें यह साझा करते हुए गर्व हो रहा है कि विज्ञान एवं प्रौद्योगिकी परिषद (S&T Council) के सदस्यों ने हाल ही में IIT कानपुर में आयोजित Opportunity Open Source Conference 2024 में RGIPT का प्रतिनिधित्व किया। यह सम्मेलन Linux Foundation, Canonical, और Open Printing के सहयोग से आयोजित किया गया था। हमारी टीम ने न केवल ओपन-सोर्स तकनीकों और जनरेटिव एआई (GenAI) पर आधारित ज्ञानवर्धक सत्रों में भाग लिया, बल्कि एक गहन 12-घंटे की हैकाथॉन में भी सक्रिय रूप से हिस्सा लिया, जहाँ उन्होंने देशभर के डेवलपर्स और नवप्रवर्तकों के साथ मिलकर काम किया।

टीम सदस्य:

- अपुर्व गुप्ता, आदित्य नारायण, माना अजमेरा, अभिप्सा नायक, अर्घ्य चक्रवर्ती, अभिज्ञान पांडेय, कौशल शर्मा

यह भागीदारी RGIPT की ओपन-सोर्स नवाचारों में बढ़ती रुचि **और** राष्ट्रीय तकनीकी मंचों पर सक्रिय उपस्थिति **को दर्शाती है।**

IIT बॉम्बे में National Entrepreneurship Challenge (NEC) के फाइनलिस्ट

हमारे ई-सेल (E-Cell) की टीम ने National Entrepreneurship Challenge (NEC) में एक उल्लेखनीय उपलब्धि हासिल की, जहाँ उन्होंने 1000+ टीमों में से 35वां स्थान प्राप्त कर संस्थान के लिए एक नया मानदंड स्थापित किया। टीम की लगातार उत्कृष्ट प्रदर्शन, नवाचार, और टीमवर्क ने उन्हें NEC के फाइनल राउंड तक पहुँचाया, जहाँ उन्होंने E-Summit 2025, IIT बॉम्बे में शीर्ष 10 टीमों में स्थान प्राप्त किया। यह असाधारण उपलब्धि टीम की अडिग प्रतिबद्धता, उद्यमशीलता की भावना, और प्रतिस्पर्धात्मक राष्ट्रीय मंच पर उत्कृष्टता के प्रति समर्पण को दर्शाती है।

Techkriti – IIT कानपुर में CTF प्रतियोगिता में S&T परिषद की शानदार रैंकिंग

विज्ञान एवं प्रौद्योगिकी परिषद (S&T Council) के प्रथम वर्ष के छात्रों ने IIT कानपुर के प्रतिष्ठित टेकफेस्ट Techkriti 2025 में आयोजित CTF (Cybersecurity) प्रतियोगिता में 100+ टीमों के बीच 14वां स्थान प्राप्त कर एक शानदार प्रदर्शन किया।

टीम सदस्य:

1. उत्कर्ष तिवारी – 24MC3058
2. तक्ष अग्रवाल – 24MC3051

यह उपलब्धि उनकी साइबर सुरक्षा में तकनीकी दक्षता, तेज विश्लेषणात्मक सोच, और टीमवर्क को दर्शाती है। साथ ही यह RGIPT की राष्ट्रीय तकनीकी मंचों पर बढ़ती उपस्थिति को भी उजागर करती है।

परिषद की टीमें

इवेंट प्रबंधन टीम परिषद के सभी आयोजनों — जैसे कार्यशालाएं, टेक फेस्ट, सेमिनार और प्रतियोगिताएं — की योजना बनाती है, समन्वय करती है और उन्हें क्रियान्वित करती है। यह टीम लॉजिस्टिक्स, समय निर्धारण, अनुमतियाँ और स्थल संचालन को संभालती है, ताकि प्रतिभागियों को एक स्मरणीय अनुभव मिल सके। अन्य टीमों के साथ सहयोग कर यह टीम आयोजन की सफलता सुनिश्चित करती है।

डिज़ाइनिंग टीम रचनात्मकता को जीवंत रूप देती है। यह टीम परिषद के सभी आयोजनों के लिए आकर्षक पोस्टर, बैनर, प्रमाणपत्र, प्रस्तुतियाँ और डिजिटल सामग्री तैयार करती है। वे परिषद की दृश्य पहचान बनाए रखते हैं, विभिन्न प्लेटफ़ॉर्म पर एकरूपता सुनिश्चित करते हैं, और प्रभावशाली डिज़ाइन के माध्यम से विचारों को संप्रेषित करने व सहभागिता बढ़ाने में सहयोग करते हैं।

वीडियो संपादन टीम आयोजनों के पलों को कैद कर उन्हें रोचक दृश्य कथाओं में बदलती है। यह टीम प्रचार वीडियो, इवेंट हाइलाइट्स, रील्स और आफ्टर-मूवीज़ तैयार करती है, जिससे परिषद की डिजिटल उपस्थिति सशक्त होती है और गतिविधियों को रचनात्मक रूप से प्रदर्शित किया जा सकता है।

सोशल मीडिया और पीआर टीम परिषद की ऑनलाइन उपस्थिति को विभिन्न प्लेटफ़ॉर्म पर प्रबंधित करती है। यह टीम आकर्षक पोस्ट तैयार करती है, प्रचार करती है, दर्शकों से संवाद करती है और परिषद की ब्रांड छवि को सुदृढ़ करती है। अन्य टीमों के साथ मिलकर यह समय पर अपडेट, व्यापक पहुँच और छात्र समुदाय से मजबूत जुड़ाव सुनिश्चित करती है।

संपादकीय टीम परिषद के लिए लिखित सामग्री तैयार करने और उसे परिष्कृत करने की जिम्मेदारी निभाती है। यह टीम इवेंट विवरण, रिपोर्ट, न्यूज़लेटर और सोशल मीडिया कैप्शन तैयार करती है। भाषा पर मजबूत पकड़ और सूक्ष्मता के साथ यह टीम सभी संचारों में स्पष्टता, व्यावसायिकता और रचनात्मकता सुनिश्चित करती है, जिससे परिषद की आवाज़ प्रभावी रूप से प्रस्तुत होती है।

लॉजिस्टिक्स टीम सभी आयोजनों के लिए पर्दे के पीछे की तैयारी को संभालती है। यह टीम सामग्री प्रबंधन, स्थल सज्जा, उपकरण व्यवस्था और विक्रेताओं व अधिकारियों से समन्वय करती है। इनकी कुशल योजना और क्रियान्वयन से हर आयोजन सुचारू रूप से संपन्न होता है, जिससे अन्य सभी टीमों को सहयोग मिलता है और परिषद की समग्र सफलता सुनिश्चित होती है।

आउटरीच और सहयोग टीम बाहरी संगठनों, प्रायोजकों और अन्य कॉलेज इकाइयों के साथ संबंध स्थापित करती है। यह टीम परिषद के आयोजनों को बेहतर बनाने के लिए साझेदारी, प्रायोजन, और संसाधन सहयोग प्राप्त करने का प्रयास करती है। इनका कार्य परिषद की पहुंच को बढ़ाना और विभिन्न संस्थानों के साथ सहयोग के माध्यम से आयोजनों को अधिक प्रभावशाली और संसाधन-संपन्न बनाना है।

अन्य कार्यक्रम

शैक्षणिक भ्रमण

राज्य परियोजना निदेशक, समग्र शिक्षा (मा0), उत्तर प्रदेश के कार्यालय पत्र संख्या Samagra Shiksha (Ma0)/462-63/2024-25 दिनांक 06.06.2024 के अनुसार, 12 दिसंबर 2024 से 20 दिसंबर 2024 तक हमारे संस्थान में एक शैक्षणिक भ्रमण/अध्ययन यात्रा का आयोजन किया गया। इस कार्यक्रम में कक्षा 9 से 12 के छात्र-छात्राओं ने भाग लिया, जो अमेठी, रायबरेली और सुल्तानपुर जैसे आस-पास के जिलों से आए थे। उन्होंने राजीव गांधी पेट्रोलियम प्रौद्योगिकी संस्थान, जायस (अमेठी) में एक दिवसीय अध्ययन यात्रा की। इस भ्रमण का उद्देश्य छात्रों को उच्च शिक्षा के वातावरण, प्रयोगशालाओं, अनुसंधान गतिविधियों, और तकनीकी प्रगति से परिचित कराना था, ताकि उनमें विज्ञान और प्रौद्योगिकी के प्रति जिज्ञासा और रुचि विकसित हो सके।

भ्रमण के दौरान छात्रों ने संस्थान के कक्षा कक्ष (विवेकानंद सभागार) और प्रयोगशालाओं का दौरा किया। उनके प्रश्नों का उत्तर प्रोफेसरों और विषय विशेषज्ञों द्वारा दिया गया। प्रतिदिन लगभग 400 से 500 छात्र भ्रमण में शामिल हुए और कुल मिलाकर 4,000 से अधिक छात्रों ने इस कार्यक्रम में भाग लिया।

भाग लेने वाले विद्यालय)**12** से **21** दिसंबर **2024):**

- राजकीय बालिका इंटर कॉलेज, सलोन, रायबरेली
- राजकीय बालिका इंटर कॉलेज, हरियावां, रायबरेली
- राजकीय हाई स्कूल, रोहनिया, रायबरेली
- राजकीय हाई स्कूल, सुची, रायबरेली
- राजकीय बालिका इंटर कॉलेज, महाराजगंज, रायबरेली

- राजकीय बालिका इंटर कॉलेज, दीवानंदपुर, रायबरेली
- राजकीय इंटर कॉलेज, फुरसतगंज, अमेठी
- राजकीय इंटर कॉलेज, अटौरा बुज़ुर्ग, रायबरेली
- राजकीय इंटर कॉलेज, सुल्तानपुर
- राजकीय बालिका हाई स्कूल, बेला भेला, रायबरेली
- राजकीय हाई स्कूल, बिरनावा दीह, रायबरेली
- राजकीय इंटर कॉलेज, दीह, रायबरेली
- राजकीय बालिका इंटर कॉलेज, अजीतपुर, रायबरेली
- अन्य विद्यालय

भ्रमण के दौरान छात्रों ने संस्थान की विभिन्न प्रयोगशालाओं और अनुसंधान सुविधाओं का अवलोकन किया। उन्हें विभिन्न उपकरणों, मशीनों और प्रयोगों की कार्यप्रणाली की विस्तृत जानकारी दी गई। छात्रों ने शिक्षकों और शोधार्थियों से संवाद किया, कई जिज्ञासु प्रश्न पूछे, और उन्हें संतोषजनक उत्तर प्राप्त हुए।

उन्होंने आधुनिक तकनीकी प्रयोगों, नवीकरणीय ऊर्जा, वैज्ञानिक अनुसंधान पद्धतियों, और उच्च शिक्षा में उपलब्ध अवसरों के बारे में भी जानकारी प्राप्त की।

इस शैक्षणिक भ्रमण से छात्रों में उत्साह और रुचि में उल्लेखनीय वृद्धि देखी गई। कई छात्रों ने पहली बार इतने बड़े और उन्नत उच्च शिक्षा संस्थान का अनुभव किया। उन्होंने प्रयोगशालाओं में चल रहे अनुसंधान को देखकर प्रेरणा प्राप्त की और विज्ञान एवं प्रौद्योगिकी के क्षेत्र में करियर बनाने की इच्छा व्यक्त की।

यह भ्रमण उनके आत्मविश्वास को बढ़ाने और उच्च शिक्षा के नए द्वार खोलने में सहायक सिद्ध हुआ। शिक्षकों और विद्यालय प्रशासन ने इस पहल की सराहना की और इसे छात्रों के शैक्षणिक विकास के लिए अत्यंत उपयोगी माना।

कुल मिलाकर, यह अध्ययन यात्रा छात्रों के लिए अत्यंत लाभकारी सिद्ध हुई और उनके भविष्य के वैज्ञानिक, तकनीकी और व्यावसायिक करियर के लिए एक नई दृष्टि प्रदान की।





हाइड्रोजन दिवस 2024

राजीव गांधी पेट्रोलियम प्रौद्योगिकी संस्थान (RGIPT), जायस, अमेठी ने 8 अक्टूबर 2024 को विश्व हाइड्रोजन दिवस को विज्ञान ज्योति कार्यक्रम के अंतर्गत उत्साहपूर्वक मनाया। यह कार्यक्रम विज्ञान एवं प्रौद्योगिकी विभाग (DST) की एक पहल

है, जिसका उद्देश्य नवोदय विद्यालय समिति (NVS) के प्रतिभाशाली छात्रों को विज्ञान और प्रौद्योगिकी के क्षेत्र में आगे बढ़ने के लिए प्रेरित करना है। इस अवसर पर हाइड्रोजन को एक सतत ऊर्जा वाहक के रूप में प्रस्तुत किया गया और भारत की स्वच्छ ऊर्जा संक्रमण में इसकी भूमिका को रेखांकित किया गया। कार्यक्रम का आयोजन छात्र कल्याण अधिष्ठाता के मार्गदर्शन में किया गया, जिसमें NVS के छात्र-शिक्षकों, RGIPT के संकाय सदस्यों, और छात्रों ने सक्रिय भागीदारी की।

कार्यक्रम की शुरुआत डॉ. देबाशीष पांडा, छात्र कल्याण अधिष्ठाता, के स्वागत भाषण से हुई। उन्होंने जलवायु परिवर्तन और ऊर्जा मांग की चुनौतियों से निपटने के लिए हाइड्रोजन तकनीकों में नवाचार की आवश्यकता पर बल दिया। इसके पश्चात रसायन विभागाध्यक्ष डॉ. मिलन कुमार ने "भारत में हाइड्रोजन अर्थव्यवस्था और भविष्य की संभावनाएं" विषय पर व्याख्यान दिया। उन्होंने हाइड्रोजन उत्पादन, भंडारण, ईंधन कोशिकाएं, और उद्योगों में उभरते उपयोग पर प्रकाश डाला।

कार्यक्रम के अंतर्गत दोपहर 2:00 बजे NVS के छात्रों और शिक्षकों के लिए प्रयोगशाला भ्रमण का आयोजन किया गया। उन्होंने केमिकल इंजीनियरिंग, पेट्रोलियम इंजीनियरिंग, इलेक्ट्रॉनिक्स इंजीनियरिंग, बायोएनर्जी इंजीनियरिंग, और सेंट्रल इंस्ट्रूमेंटेशन लैबोरेटरी का दौरा किया, जहाँ उन्होंने स्कैनिंग इलेक्ट्रॉन माइक्रोस्कोप (SEM) का अवलोकन किया। इस भ्रमण ने छात्रों को उन्नत अनुसंधान सुविधाओं से परिचित कराया और उन्हें विज्ञान, ऊर्जा और प्रौद्योगिकी में करियर बनाने के लिए प्रेरित किया।

छात्रों की सक्रिय भागीदारी को प्रोत्साहित करने हेतु निम्नलिखित गतिविधियाँ आयोजित की गईं:

- पूरे परिसर में **विश्व हाइड्रोजन दिवस के बैनर** प्रदर्शित किए गए
- **हाइड्रोजन ऊर्जा अनुप्रयोगों** पर तकनीकी वार्ताएं
- **सतत विकास में हाइड्रोजन की भूमिका** पर जागरूकता सत्र
- छात्रों के साथ **इंटरैक्टिव प्रश्नोत्तर सत्र**

इस आयोजन ने भारत की **राष्ट्रीय ग्रीन हाइड्रोजन मिशन** की ओर भी ध्यान आकर्षित किया, और RGIPT की भूमिका को एक **प्रमुख ऊर्जा शिक्षा एवं अनुसंधान संस्थान** के रूप में रेखांकित किया, जो देश की **ऊर्जा सुरक्षा और स्थायित्व** की दृष्टि के अनुरूप कार्य कर रहा है।

हाइड्रोजन दिवस 2024 ने छात्रों और शोधकर्ताओं को **भविष्य के ईंधन के रूप में हाइड्रोजन** की संभावनाओं और चुनौतियों पर चर्चा करने के लिए एक **सार्थक मंच** प्रदान किया। यह आयोजन RGIPT की **उन्नत अनुसंधान**, **नवाचार**, और **स्वच्छ एवं नवीकरणीय ऊर्जा क्षेत्र में क्षमता निर्माण** के प्रति प्रतिबद्धता को सुदृढ़ करता है।

अध्याय-16

प्रशिक्षण एवं नियोजन

नियोजन (2024-25)

परिचय: प्रशिक्षण एवं नियोजन कार्यालय छात्रों के लिए इंटर्नशिप और प्रशिक्षण कार्यक्रम स्थापित करने में अग्रणी संगठनों और संस्थानों के साथ सहयोग करने के अलावा, संस्थान से उत्तीर्ण होने वाले छात्रों की प्लेसमेंट प्रक्रिया को सुविधाजनक बनाता है। कार्यालय विभिन्न कंपनियों और कॉर्पोरेट घरानों के साथ संपर्क करता है, जो कैंपस साक्षात्कार आयोजित करते हैं और कई विषयों से स्नातक और स्नातकोत्तर छात्रों का चयन करते हैं। प्रशिक्षण एवं प्लेसमेंट कार्यालय समूह को ऑनलाइन और ऑफलाइन चर्चा, परीक्षण और साक्षात्कार आयोजित करने और अन्य लॉजिस्टिक्स को पूरा करने के लिए बुनियादी सुविधाएं प्रदान करता है। टी एंड पी सेल उद्योगों के साथ बातचीत करता है; लगभग 60 कंपनियाँ परीक्षण आयोजित करने और कैंपस साक्षात्कार आयोजित करने के लिए परिसर में आती हैं।

छात्रो का नियोजन कार्यक्रम सितंबर में शुरू होकर जून तक पूरे साल भर चलता संचालित होता है। इस संबंध में आपसी सुविधा के अनुसार प्री-प्लेसमेंट वार्ता भी आयोजित की जाती है। नौकरी की पेशकश, साक्षात्कार की तारीखें और उम्मीदवार चयन की घोषणा प्रशिक्षण एवं प्लेसमेंट कार्यालय के माध्यम से की जाती है। छात्रों और कंपनियों की ज़रूरतें प्लेसमेंट प्रक्रिया को संचालित करती हैं। नीतियां छात्र और कंपनी के अनुकूल हैं। प्रभारी प्रोफेसर प्रशिक्षण और प्लेसमेंट सेल के प्रमुख हैं।

नियोजन का विवरण

	आरजीआईपीटी जायस परिसर	**आरजीआईपीटी शिवसागर परिसर**	**आरजीआईपीटी बंगलुरु परिसर**
प्लेसमेंट की आरंभ तिथि	जनवरी 2024	फरवरी 2025	सितम्बर 2025
प्लेसमेंट के लिए देखी गई कंपनियों की कुल संख्या	22	03	39
कुल नौकरी की पेशकश की गई	71	12	56
उच्च अध्ययन छात्र	01		19
छात्रों को 2 ऑफर प्राप्त हो रहे हैं	08		05
2 से अधिक प्रस्ताव प्राप्त करने वाले छात्र			00
3 से अधिक प्रस्ताव प्राप्त करने वाले छात्र			00
प्री-प्लेसमेंट ऑफर	03		15
उच्चतम प्लेसमेंट पैकेज की पेशकश	INR 25.00 LPA	INR 3.06 LPA	INR 23.50 LPA
सबसे कम प्लेसमेंट पैकेज की पेशकश	INR 4.25 LPA	INR 1.5 LPA	INR 5.60 LPA

योग्य छात्रों के लिए औसत पैकेज	INR 12.06 LPA	INR 2.50 LPA	INR 10.10 LPA

नियोजन के लिए कुल योग्य छात्र

विभाग/स्कूल का नाम	बी.टेक.	एम. टेक.	एमबीए	डिप्लोमा
पेट्रोलियम इंजीनियरिंग (आरजीआईपीटी, जायस परिसर में)	26			
केमिकल इंजीनियरिंग (आरजीआईपीटी, जायस परिसर में)	10			
प्रबंधन अध्ययन (आरजीआईपीटी, जायस परिसर में)			33	
केमिकल इंजीनियरिंग (आरजीआईपीटी, जायस परिसर में)				04
अग्नि एवं सुरक्षा इंजीनियरिंग (आरजीआईपीटी, शिवसागर परिसर)				04
मैकेनिकल इंजीनियरिंग (आरजीआईपीटी, शिवसागर परिसर)				06
पेट्रोलियम इंजीनियरिंग (आरजीआईपीटी, जायस परिसर में)				06
कंप्यूटर साइंस और इंजीनियरिंग (आरजीआईपीटी, बंगलुरु परिसर)	51			
सूचना प्रौद्योगिकी (आरजीआईपीटी, बंगलुरु परिसर)	28			
गणित और कंप्यूटिंग (आरजीआईपीटी, बंगलुरु परिसर)	21			
इलेक्ट्रॉनिक्स और संचार (आरजीआईपीटी, बंगलुरु परिसर)	15			
इलेक्ट्रिक वाहन प्रौद्योगिकी (आरजीआईपीटी, बंगलुरु परिसर)		04		
नवीकरणीय ऊर्जा (आरजीआईपीटी, बंगलुरु परिसर)		04		
कुल	**151**	**08**	**33**	**20**

वर्ष 2024-25 में कुल योग्य छात्र:

अ) आरजीआईपीटी, जायस परिसर : 69

ब) आरजीआईपीटी, शिवसागर परिसर : 20

स) आरजीआईपीटी, बंगलुरु परिसर : 123

कुल : 212

2024-25 के दौरान नियोजित छात्रों की संख्या का विवरण

विभाग/स्कूल का नाम	बी.टेक.	एम. टेक.	एमबीए	डिप्लोमा
पेट्रोलियम इंजीनियरिंग (आरजीआईपीटी, जायस परिसर)	24			
केमिकल इंजीनियरिंग (आरजीआईपीटी, जायस परिसर)	09			

प्रबंधन अध्ययन (आरजीआईपीटी, जायस परिसर)			31	
केमिकल इंजीनियरिंग (आरजीआईपीटी, शिवसागर परिसर)				04
अग्नि एवं सुरक्षा इंजीनियरिंग (आरजीआईपीटी, शिवसागर परिसर)				04
पेट्रोलियम इंजीनियरिंग (आरजीआईपीटी, शिवसागर परिसर)				04
कंप्यूटर साइंस और इंजीनियरिंग (आरजीआईपीटी, बंगलुरु परिसर)	33			
सूचना प्रौद्योगिकी (आरजीआईपीटी, बंगलुरु परिसर)	14			
गणित और कंप्यूटिंग (आरजीआईपीटी, बंगलुरु परिसर)	14			
इलेक्ट्रॉनिक्स और संचार (आरजीआईपीटी, बंगलुरु परिसर)	10			
इलेक्ट्रिक वाहन प्रौद्योगिकी (आरजीआईपीटी, बंगलुरु परिसर)		04		
नवीकरणीय ऊर्जा (आरजीआईपीटी, बंगलुरु परिसर)		04		
कुल	**104**	**08**	**31**	**12**

वर्ष 2024-25 में नियोजित छात्रों की कुल संख्या:

अ) आरजीआईपीटी, जायस परिसर : 64

ब) आरजीआईपीटी, शिवसागर परिसर : 12

स) आरजीआईपीटी, बंगलुरु परिसर : 79

कुल : 155

अध्याय-17

अंतर्राष्ट्रीय एवं पूर्व छात्र संबंध

परिचय: आरजीआईपीटी एलुमनी एसोसिएशन का उद्देश्य पूर्व छात्रों, समुदाय और संस्थान के बीच मजबूत संबंधों को बढ़ावा देना है। यह पूर्व छात्रों को उनके मूल संस्थान से जोड़ने, आजीवन संबंध बनाए रखने, सहयोग को प्रोत्साहित करने और पारस्परिक विकास को बढ़ावा देने के लिए प्रेरित करता है।

शैक्षणिक वर्ष **2024–2025** की प्रमुख उपलब्धियाँ: सक्रिय सहभागिता: इस वर्ष एलुमनी की भागीदारी में उल्लेखनीय वृद्धि हुई, जिसमें कई आउटरीच पहलें शामिल थीं। पुनर्मिलन एवं संवाद सत्र: पूर्व छात्रों और वर्तमान सदस्यों के बीच संवाद को बढ़ावा देने के लिए कई कार्यक्रम आयोजित किए गए। डिजिटल विस्तार: **AlmaConnect** और सोशल मीडिया जैसे प्लेटफॉर्म के माध्यम से एसोसिएशन ने अपनी पहुंच बढ़ाई, जिससे विभिन्न पेशेवर क्षेत्रों के पूर्व छात्रों से बेहतर संवाद और सहयोग संभव हुआ।

दृष्टिकोण: एक सशक्त और वैश्विक रूप से जुड़ा हुआ एलुमनी समुदाय स्थापित करना जो आरजीआईपीटी की प्रतिष्ठा और प्रभाव को वैश्विक स्तर पर मजबूत करे, वर्तमान छात्रों को मेंटरशिप, मार्गदर्शन और पेशेवर सहयोग प्रदान करे, पेट्रोलियम, ऊर्जा और संबंधित क्षेत्रों में उत्कृष्टता और नवाचार को बढ़ावा दे

मिशन: आरजीआईपीटी पूर्व छात्र संघ का मिशन है:

- अपने पूर्व छात्रों के साथ मातृसंस्था को पुनः जोड़ना।
- पूर्व छात्रों के बीच बातचीत और नेटवर्किंग के लिए एक जीवंत मंच प्रदान करना।
- वर्तमान छात्रों के लिए मार्गदर्शक की भूमिका निभाना।
- आरजीआईपीटी की भावी योजनाओं और धन-संग्रह गतिविधियों के लिए उसके साथ जुड़ना।
- आरजीआईपीटी के लिए वैश्विक मान्यता और प्रदर्शन प्राप्त करना।
- ऐसे कार्यक्रमों का आयोजन करना जो आरजीआईपीटी के पूर्व और वर्तमान छात्रों के पुनर्मिलन में सहायक हों।

आयोजन

तारीख	आयोजन
19th April 2025	Alumni Interaction – RGIPT Jais Campus
15th June 2025	Alumni Meet 2025 – RGIPT Bengaluru Campus

अन्य गतिविधियाँ:

आरजीआईपीटी पूर्व छात्र वेबिनार (2024-2025)

क) रासायनिक इंजीनियरिंग विभाग

क्रम संख्या	पूर्व छात्र का नाम	वेबिनार शीर्षक	तिथि	प्लेटफ़ॉर्म	विवरण / विषय
1	Pranjal Maheswari, Batch (2018-22)	Demulsifying Interview Preparation: Intern, Project and Other Aspects.	25th August 2024	Online	Tips on technical and HR interviews, emphasizing internships, projects, and communication for campus placement success.

एमबीए / प्रबंधन पूर्व छात्र

कार्यक्रम का नाम	तिथि	पूर्व छात्र का नाम	पूर्व छात्र संगठन	पाठ्यक्रम	बैच	बातचीत का तरीका
Interaction Session	2nd August 2024	Aparna Trivedi	GAIL India	MBA	2022 - 2024	Online
		Meghna Chhokar	Jio BP	MBA	2022 - 2024	
		Sahil Gupta	IOAGPL	MBA	2021 - 2023	
Mock personal Interview for Jio BP	1st October 2024	Mayank Pandey	GAIL India	MBA	2021 - 2023	Online
		Khushboo Chaudhary	Jio BP	MBA	2022 - 2024	
Mock personal Interview for Torrent	October 28, 2024	Sparsh Nagar	Torrent	MBA	2022 - 2024	Online
		Srisha Sharma	Mahanagar Gas Ltd	MBA	2021 - 2023	
		Paridhi Gupta	Torrent	MBA	2022 - 2024	
Mock personal Interview for GAIL	November 9, 2024	Aparna Trivedi	GAIL India	MBA	2022 - 2024	Online
		Rahul Jain	GAIL India	MBA	2009 - 2011	
Mock personal Interview for IOCL	March 8, 2025	Parasmani Mishra	IOCL	MBA	2022 - 2024	Online
		Praveen Kumar	IOCL	MBA	2022 - 2024	
Industrial Interaction Highlighting Current Marketing Trend	19th March 2025	Prateek Rai	Tata 1 mg	MBA	2013 - 2015	Online

बी.टेक ओरिएंटेशन 2024

क्रम सं.	कार्यक्रम	तिथि	पूर्व छात्र शामिल	वर्तमान संबद्धता	मंच
1	Alumni Interaction	Sep 15th 2024	Mr. Ashok Charan -2013 (Batch)	Deputy Director of Income Tax (Inv.) Income Tax Department, Jaipur	RGIPT Jais Campus
2	Alumni Interaction	Sep 15th 2024	Mr. Shubham Gupta - 2013 (Batch)	Manager (Reservoir), ONGC	RGIPT Jais Campus
3	Alumni Interaction	Sep 15th 2024	Miss Tanushree Agrawal -2016 (Batch)	Manager – Contracts & Purchase, Oil India Limited	RGIPT Jais Campus

एसोसिएटेड स्टूडेंट चैप्टर – 2025

क्रम सं.	Event / Program	कार्यक्रम/तिथि	अतिथि/ वक्ता	संबद्ध छात्र/अध्याय	विषय/विवरण
1	Orientation 2024–25	17th-Feb-2025	Mr. Aditya Sharma (Former President), Mr. Gaurav Bhatia	European Association of Geoscientists and Engineers (EAGE)	Emerging Careers in Energy Transition, Sustainability and Geoscience Integration
2	Alumni Session	09th-Mar-2025	Ms. Arunima Singh (Farmer President)	Society of Exploration Geophysicists (SEG)	Applications for AI/ML in Geophysics, Bridging Academia and Industry in Energy Sector

2. प्राप्त धनराशि: 6,03,000/-

क्र.सं.	व्यक्ति/ट्रस्ट का नाम	पक्ष में	प्रकार	उद्देश्य
छात्रों से (पूर्व छात्र सदस्यता शुल्क)				

वर्षवार निधि एवं दानकर्ता:

	Total Funds from Alumnus (in lakhs of Rupees)		Total No. of Donors
2018-19	(*through donor) 0.52 Lakh	(*through fees) 1.72 Lakh	74
2019-20	0.58 Lakh	1.81 Lakh	82
2020-21	NIL	2.76 Lakh	NIL
2021-22	1.23 Lakh	2.98 Lakh	175
2022-23	0.09 Lakh	5.11 Lakh	12
2023-24	0.11 Lakh	5.73 Lakh	15
2024-25	0.34 Lakh	6.03 Lakh	48

अध्याय-18
अनुसंधान एवं विकास

प्रायोजित अनुसंधान परियोजनाएँ

क्र. सं.	परियोजना का शीर्षक	अवधि	वित्त पोषण एजेंसी	राशि (लाख में)	प्रधान अन्वेषक/समन्वयक
1	Numerical Analysis and Simulations of Compressible / Incompressible Euler and Naiver- Strokes Equations: Theoretical and Computational Studies	5 Years.	DST	**21.09**	Ms. Jyoti (Dr. Manoj Kr. Rajpoot).
2	Metal- Organic Frameworks - Derived Non-Precious- Metal- Based Nanostructured Materials for Electro catalysis	3 Years.	CSIR	**19.44**	Dr. Arshad Aijaz
3	Development of Electrodes & Modular Compact Membrane Less Electrolyze set up for sustainable H2 production from sea/tap/ground water	3 Years.	DST	**253.28**	Prof. (Dr.) A. S. K. Sinha
4	Investigation of magnetic structure and magneto electric coupling of designed 4d/5d-4f coupled strongly correlated systems	3 Years.	UGC-DAE CSR	**0.45**	Dr. Tathamay Basu
5	Study of Carbon dioxide storage and utilization for enhanced oil recovery in Indian oil fields using polymer-nanoparticle assisted carbonated water flooding.	3 Years.	SERB-DST	**48.64**	Dr. Shivanjali Sharma
6	Performance Evaluation of a floating biogas plant by integrated semitransparent photo-voltaic thermal (SPVT) collectors (Bio-SPVT)	5 Years.	DST	**21.27**	Mr. Divyanshoo Singh (Dr. Hemant Kumar Singh).

7	Syngas formation from direct gas phase co-electrolysis of CO_2 and H_2O at high current density using amine functionalized electrodes and elevated pressure	2 Years.	SERB-DST	**25.69**	Dr. Karan Malik
8	Investigating the optimal electricity generation mix for India using fuzzy portfolio optimization approach.	3 Years.	DST- SERB (MATRICS)	**6.60**	Dr. Mohd. Irfan
9	Closed Loop Control for Parabolic type Problems: Theory and Computation	2 Years.	SERB-DST	**13.75**	Dr. Sudeep Kundu
10	Synthesis and Evaluation of Nanocomposite-Pour Point Depressants (N-PPDs) to Inhibit Wax Deposition and Improve the Flow Properties of Indian Waxy Crude Oils for Pipeline Transportation	3 Years.	SERB-DST	**23.58**	Dr. Shailesh Kumar
11	Design and Investigation of Magneto electric Materials-an emerging route in data-storage devices	2 Years.	SERB-DST	**33.15**	Dr. Tathamay Basu
12	Mechanism of Carbon storage for enhanced oil recovery and net-zero scheme in oilfields of Cambay basin	3 Years..	SERB-DST	**24.46**	Dr. Tushar Sharma
13	Fabrication of Hybrid Ionic Electroactive Polymers- based Low- Powered, High-performance Soft Actuators for Soft Robotics Applications.	2 Years..	SERB-DST	**24.96**	Dr. Vipin Amoli
14	A critical assessment and socio-economic impact of Ayushman Bharat Pradhan Mantri Jan Arogya Yojna	6 months	ICSSR	**5.38**	Dr. Rohit Bansal
15	Detection and mapping of underground utilities for smart city development using non- destructive Geophysical method, Ground penetrating Radar	3 Years.	CST UP	**14.58**	Dr. Satish Kumar Sinha

16	Development of synthetic polymer-based reservoir drilling and completion fluid for high pressure and high temperature wells: fluids invasion modelling and mitigation.	3 Years.	SERB	**27.55**	Dr. Sidharth Gautam
17	Study of hydrate promoters for development of transport system for CO_2 as gas hydrate.	2 Years.	SERB	**31.97**	Dr. Amit Kumar
18	Development of catalyst coupled photo electrodes for renewable energy	1 Year.	UGC- DAE CSR	**0.45**	Dr. Debasis De
19	The impact of demographic factor in Risk Tolerance: A case study of Saudi Arabia	1 Year.	Saudi Electronic University	**2.73**	Dr. Rohit Bansal
20	Artificial Intelligence (AI) For Smart Sensing and Internet of Everything (IOE)	5 days	SERB	**5.00**	Dr Sajal Aggarwal & Dr Ankur Pandey
21	Workshop on intellectual property right	2 months	CST-UP	**1.53**	Dr. Amarish Dubey
22	Net Zero & Energy Transition for Sustainable Development	1 year	ICSSR	**5.00**	Dr. Jaya Srivastava
23	Designing and Realization of D shaped PCF-SPR Sensor for Blood Cancer Detection and Development of Novel Machine Learning Methods for Early Predictions.'	02 Years	UPCST	**8.50**	Dr. Sajal Agarwal and Dr. Ankur Pandey
24	Real Time AI- Driven Critical Infrastructure Identification for Industrial Cyber Physical System	02 Years	UPCST	**7.72**	Dr. Saptrishi Ghosh and Dr. Ankur Pandey
25	Sustainable Point - Source Co2 Capture Method: Role of Hydrodynamics n Gas-Liquid reaction"	03 Years	UPCST	**16.08**	Dr. K.G. Biswas and Dr. Debashis Panda

26	Solar energy and sustainability: An empirical research project on solar energy and sustainability	01 Year	ICSSR	**12.00**	Dr. Rohit Bansal and Dr. Sanjay Kar
27	A Proposal Color Less Fully Transparent & Flexible Organic Thin-Film Transistors for Invisible or See-Through Electronics Application	2 Years.	SERB-DST	**28.08**	Dr. Abhishek Kumar Singh
Total				**682.94**	

औद्योगिक परियोजनाएँ

क्रम सं.	प्रधान अन्वेषक/समन्वयक	परियोजना का शीर्षक	उद्योग	राशि (लाख में)
1	डॉ. दीपक द्विवेदी	Corrosion in the biogas equipment and Biogas production	Geo Engineers Pvt. Ltd.	16.00
2	प्रो.सतीश कुमार सिन्हा	3D Geo-mechanical Model Development for Balimara Field	Oil India Ltd.	18.43
3	डॉ तुषार शर्मा	Single - step Silica Nano fluids to enhance Mechanical properties, Microstructure refinement and as a Shale Stabilizer for cement slurries	IDT-ONGC Deharadun	26.10
4	प्रो आलोक कुमार सिंह	Organic Petrography, Biostratigraphy and Palynology Study of Shales of well Sadiya-1 of Oil India Limited	Oil India Ltd.	19.79
5	प्रो. संजय कुमार कर	A study on hydrogen industry competitiveness in India: Role of Northeastern States	Oil India Ltd.	9.56
6	डॉ. शिवांजलि शर्मा	Study and one-step solution for downhole problems of Oil India Limited using multi-functional drilling fluid additive	Oil India Ltd.	19.92
7	डॉ.सतीश कुमार सिन्हा	Geoscientific Data Analysis of Ganga-Punjab and Vindhyan Basin	DGH	11.66
8	डॉ. शिवांजलि शर्मा	Development of surfactant-based drag reducing agents for transportation of asphaltic crude oils through pipelines	HMEL	11.00

9	डॉ. अमित सक्सैना एवं डॉ. शिवांजलि शर्मा	Microwaves assisted mobilization of viscous crude oil for improved oil recovery and flow assurance application: a study on lab to field approach	ONGC	37.68
10	डॉ. अमित सक्सैना एवं डॉ. शिवांजलि शर्मा	Study and One-Step solution for Downhole Problems of Oil India limited using newly synthesized multi-functional drilling fluid addictive	Oil India Ltd.	19.92
11	डॉ. दीपक द्विवेदी	Examining the RGIPT Corrosion inhibitor formulation developed for mitigating the corrosion led by ethanol blended petrol through industrial fields trials by CPCL and commercializing the technology.	CPCL Chennai	52.80
12	डॉ. देबाशीष पांडा	Scaling up to demonstration plant: production of Micro cellulose, Nano cellulose and fuel (Dimethyl Furan) from Rice straw and green coconut shells	CPCL Chennai	85.00
13	डॉ. सतीश कुमार सिन्हा	Geophysical survey for the Malshej Ghat Project, Malsej, state of Maharashtra	Geowings Engineering	12.00
14	प्रो. ए.एस.के. सिन्हा और डॉ. मिलन कुमार	Collaborative Research Project on "Technical Upgradation of electrode and membrane less electrolyze for Sea water electrolysis	NTPC	128.67
15	डॉ. मिलन कुमार और डॉ. अरशद ऐजाज़	Demonstration of redox flow battery for stationery energy storage at KW Scale	BPCL	97.70
16	डॉ. मलय कुमार साहू, डॉ. अरशद ऐजाज़, प्रो. ए.एस.के. सिन्हा	Fabrication assembly and transportation of two prototype working models.	NRL	36.00
17	डॉ. दीपक द्विवेदी	Development of corrosion inhibitor formulation for mitigating corrosion led by methanol blend diesel	NRL	96.91
18	डॉ. देबासिस पांडा और प्रो. ए.एस.के. सिन्हा	Lignin based bio adhesive development and its process optimization.	NRL	88.00

19	डॉ. श्वेता एवं डॉ. राकेश कुमार	Methanol diesel blending to achieve stable mixtures	NRL	83.11
20	डॉ. अमित सक्सैना एवं डॉ. शिवांजलि शर्मा	Feasibility study on the effect of electromagnetic radiation on thermal upgradation of Oil India limited heavy crude oil	OIL Jodhpur	3.93
21	डॉ. मलय कुमार साहू और प्रो. ए.एस.के. सिन्हा	Electrochemical conversion of HSD and NH3 in sour water to H2 Sulphur and ammonium sulphate	NRL	67.50
22	डॉ. वी.एस. सिस्तला और डॉ. गुंजन के अग्रहरि	Propane separation	BPCL	64.81
23	डॉ. अरशद ऐजाज़ और डॉ. मलय कुमार साहू	Electrochemical conversion of aq. ethanol/ methanol to acetic acid/ formic acid and hydrogen	NRL	72.00
24	प्रो. एम.एस. बालाथानिगैमानी, डॉ. शिखा और प्रो. ए.एस.के. सिन्हा	Development of hard carbon-based anode from Per- coke Sodium-ion Batteries	BPCL	82.52
Grand Total				**1,161.02**

पेटेंट विवरण (2024-25)

पेटेंट दाखिल

क्र. सं.	संकाय का नाम	पेटेंट का शीर्षक
1	डॉ. मिलन कुमार	A structure for liquid electrolytic distribution for flow battery and a method thereof
2	डॉ. दीपक द्विवेदी	Blister Resistant And Corrosion Resistant Additive For Red Oxide Primer
3	डॉ. दीपक द्विवेदी	In house inhibitors developed for ethanol blended fuel, application number
4	डॉ. अमित सक्सेना	Drag Reducing Composition and Process of Preparation Thereof.
5	डॉ. डी. पांडा और डॉ. मिलन कुमार	Bifuntional electro catalyst for hydrogen production at industrial current density and process for preparing the same.

पेटेंट प्रकाशित

क्र. सं.	संकाय का नाम	पेटेंट का शीर्षक
1	डॉ. दीपक द्विवेदी	Blister Resistant And Corrosion Resistant Additive for Red Oxide Primer
2	प्रो. ए.एस.के. सिन्हा, प्रो. बालाथानिगैमानी और डॉ. अरशद ऐजाज़	Three-Dimensional Electrode for Seawater Electrolysis
3	डॉ. शिखा	Molybdenum Based Durable Electro Catalyst and Fabricated Electrodes for Sustainable and Efficient Sea Water Splitting
4	डॉ. अरशद ऐजाज़, प्रो.एएसके सिन्हा, प्रो.एम.एस. बालाथानिगैमानी	Method and System for Sodium Sulfide Induced Nifco Based Trimetallic Electrode for Sea-Water Electrolysis
5	प्रो.यूपी ओझा, प्रो.ए.एस.के. सिन्हा	Bimetallic Nano catalysts for Water Splitting Applications and Method Thereof

पेटेंट प्रदान किये गये

क्र. सं.	संकाय का नाम	पेटेंट का शीर्षक
1	**डॉ. तुषार शर्मा और कृष्ण राघव चतुर्वेदी**	A system for effective hydrogen storage in heterogeneous formations using TiO2 Nano fluid and method for synthesizing TiO2 Nano fluid of varying sizes
2	**डॉ. दीपक द्विवेदी**	Blister Resistant and Corrosion Resistant Additive for Red Oxide Primer

नई सुविधाएं जोड़ी गईं (सीआईएफ)

क्र. सं.	उपकरण	राशि (₹)
1	Tribo-Corrosion Mechanical Tester	13,000,000.00

विशिष्ट आगंतुक

क्र. सं.	आगंतुक का नाम एवं पदनाम	यात्रा की तिथि	यात्रा का उद्देश्य
1	Mr. Bipul Kalita, DGM (R&D), NRL Mr. Amitabh Roy, Manager (R&D), NRL	24.09.2025	New Project kick off meeting and PMC (Project Management Meeting)

2	Shri Anil Sahni CGM (TS) Ms. Ramya M, AM (R&D) Dr. Gajendiran M, AM (R&D)	27.11.2024	Review and Discussion of ongoing project.
3.	Shri Aditya Kumar Sinha Scientist 'G' & Director, C-DAC Patna Dr. Chandrapati Appala, Satyanarayan Murty Scientist 'G' & Centre Head, C-DAC Kolkata Sri Ritesh Mukherjee, C-DAC Team Dr. Arjun Jana, C-DAC Team	27.06.2024	MOU Signing
4.	Dr. M. Gajendiran AM (R&D) CPCL Team	23.05.2024	Review and Discussion of ongoing project.
5.	Shri. Sachiv Kumar, DGH (ADG Development Team	26.04.2024	Interaction with faculty member, CIF Research Activities.

अध्याय-19

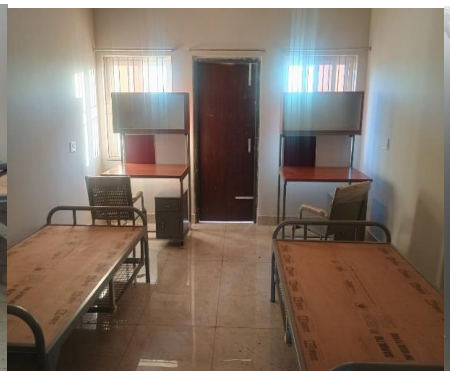
संस्थान निर्माण विभाग

RGIPT जायस परिसर में लड़कों और लड़कियों के हॉस्टल भवन और भौतिकी प्रयोगशाला के लिए फर्नीचर आइटम की खरीद:

To provide the basic amenities in boys & girls hostel buildings and to provide additional working tables at physics laboratory, furniture items like chairs, tables, beds and laboratory tables were procured for an estimated amount of Rs.59,27,000/-.




RGIPT असम केंद्र में हॉस्टल भवनों के लिए फर्नीचर की खरीद: To make the boys & girls in proper livable condition, hostel furniture's items were procured for an estimated amount of Rs.18,20,600/ at RGIPT Assam Centre.

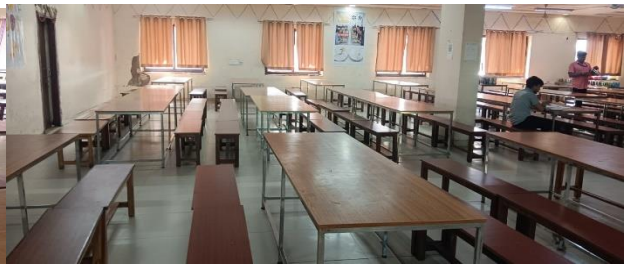




आरजीआईपीटी बेंगलुरु कैंपस के लिए फर्नीचर की खरीद:

In order to make the building fully operational and to start the academic calendar 2024-25 from RGIPT Bangalore campus, furniture's items for academic, hostels and Dining building were procured for an estimated amount of Rs.1,52,01,680/-.

RGIPT जायस कैंपस में होस्टल मेस बिल्डिंग के लिए डायनिंग हॉल फर्नीचर की खरीद:

To provide the additional sitting space for the students to cater the extra load, dining hall furniture for student mess area were purchased for an estimated amount of Rs. 2,61,960/- at RGIPT Jais campus.

Procurement of writing pad chairs for RGIPT Jais Campus:

To meet the requirement of academic department, writing pad chairs were purchased at RGIPT Jais campus for an estimated amount of Rs.1,70,150/-.

Construction of 3 Nos of synthetic courts:

To provide the additional playing area, 3 Nos of synthetic badminton courts were developed for the students. The said work will provide the students extra space for their recreational and extra co-curricular activities. Along with this, some existing courts were resurfaced for proper playing conditions and ambience. The estimated amount for the said work was of Rs. 19, 07, 000/-.




Water proofing work of RG Plaza:

In order to arrest the water leakage, water proofing work was carried out in administrative building of RGIPT Jais campus for an amount of Rs. 5,72,245/-.

अध्याय-20

संस्थान छात्रावास

नामकरण एवं गठन: हॉस्टल ब्लॉकों का नामकरण प्रतिष्ठित भारतीय व्यक्तित्वों के नाम पर किया गया है; अब आठ अलग-अलग हॉस्टल बनाए गए हैं।

- समर्पित वार्डन: प्रत्येक हॉस्टल को बेहतर समन्वय हेतु एक समर्पित वार्डन नियुक्त किया गया है।
- रंग कोडिंग: सभी हॉस्टलों को नया रंग दिया गया है और अलग-अलग रंगों से चिह्नित किया गया है।
- नाम पट्ट: प्रत्येक हॉस्टल पर SS304 धातु के बड़े अक्षरों में नाम प्रदर्शित किया गया है।
- जिम विस्तार: जिम का पुनर्गठन किया गया है, नए उपकरण खरीदे गए हैं और अतिरिक्त कमरों के साथ इसका विस्तार किया गया है।
- वार्डन कार्यालय: तीन नए वार्डन कार्यालय बनाए जा रहे हैं, जिनमें प्रत्येक हॉस्टल के दो वार्डन तैनात होंगे।
- बायोमेट्रिक प्रवेश: छात्र मेस में प्रवेश के लिए बायोमेट्रिक/फेस स्कैन प्रणाली स्थापित की गई है, जिससे निगरानी और बिलिंग में सुधार होगा।
- मेस समिति: मेस संचालन, लेखा, वित्त, बिलिंग एवं भुगतान की देखरेख हेतु समिति गठित की गई है।
- अनुरक्षण समिति: AMC अनुबंधों की तैयारी, एजेंसी समन्वय, अनुरक्षण कार्यों की निगरानी एवं वित्तीय लेन-देन हेतु समिति गठित की गई है।
- बोरवेल स्थापना: छात्रों की जल आवश्यकताओं की पूर्ति हेतु “D” एवं “E” ब्लॉक में दो बोरवेल लगाए गए हैं।

शुल्क संशोधन:

- ₹20,000/माह फेलोशिप पाने वाले प्रोजेक्ट स्टाफ हेतु हॉस्टल किराया ₹75/दिन
- ₹20,000 से अधिक फेलोशिप पाने वालों हेतु ₹100/दिन
- सिंगल ऑक्यूपेंसी हेतु हॉस्टल किराया ₹24,000/माह
- मेस लाइसेंस शुल्क ₹20,000/माह; नाइट कैंटीन शुल्क ₹2,500/माह
- बोरवेल की स्थापना: छात्रों की जल आवश्यकताओं को पूरा करने के लिए हॉस्टल परिसर के “डी ”ब्लॉक और“ ई ”ब्लॉक में दो बोरवेल स्थापित किए गए हैं। ये बोरवेल निवासियों को निरंतर जल आपूर्ति सुनिश्चित करने और बुनियादी ढांचे को सुदृढ़ करने के उद्देश्य से लगाए गए हैं।

अध्याय-21

असम ऊर्जा संस्थान, शिवसागर

स्थापना वर्ष: 2017

प्रमुख/समन्वयक/प्रभारी: डॉ. चिन्मय जीत शर्मा (2017 से)

संक्षिप्त परिचय

राजीव गांधी इंस्टीट्यूट ऑफ पेट्रोलियम टेक्नोलॉजी (RGIPT), शिवसागर कैंपस एक प्रमुख इंजीनियरिंग संस्थान है जो असम के ऐतिहासिक और औद्योगिक दृष्टि से महत्वपूर्ण शहर शिवसागर में स्थित है। यह संस्थान पेट्रोलियम, पेट्रोकेमिकल और संबंधित क्षेत्रों में तकनीकी दक्षता वाले मानव संसाधन को प्रशिक्षित करने के उद्देश्य से डिप्लोमा स्तर के पाठ्यक्रम प्रदान करता है। RGIPT की स्थापना भारत सरकार के पेट्रोलियम और प्राकृतिक गैस मंत्रालय द्वारा संसद के अधिनियम "राजीव गांधी इंस्टीट्यूट ऑफ पेट्रोलियम टेक्नोलॉजी अधिनियम 2007" के तहत की गई थी। इसे "राष्ट्रीय महत्व का संस्थान" का दर्जा प्राप्त है, जो इसे भारतीय प्रौद्योगिकी संस्थानों (IITs) के समकक्ष बनाता है। यह संस्थान छह प्रमुख तेल सार्वजनिक क्षेत्र की इकाइयों (ONGC, IOCL, OIL, GAIL, BPCL, HPCL) और ऑयल इंडस्ट्री डेवलपमेंट बोर्ड (OIDB) के सहयोग से स्थापित किया गया है। साथ ही, यह अंतरराष्ट्रीय विश्वविद्यालयों/संस्थानों के साथ भी सहयोग करता है।

- शीर्ष संस्थानों से उच्च योग्यता प्राप्त और अनुभवी संकाय सदस्य
- अत्याधुनिक सुविधाओं से युक्त कक्षाएं
- उत्कृष्ट और आधुनिक उपकरणों/उपकरणों से सुसज्जित प्रयोगशालाएं
- पर्याप्त संख्या में पाठ्य एवं संदर्भ पुस्तकों तथा पत्रिकाओं से युक्त केंद्रीय पुस्तकालय
- छात्र एवं छात्राओं के लिए अलग-अलग छात्रावास की सुविधा, साथ ही मेस की व्यवस्था
- छात्रों के समग्र व्यक्तित्व विकास के लिए एक उत्कृष्ट मंच
- सार्वजनिक क्षेत्र की इकाइयों (PSUs) और शीर्ष उद्योगों में ऑन-कैंपस प्रशिक्षण एवं प्लेसमेंट की सुवि

अधोसंरचना:

RGIPT शिवसागर कैंपस, असम के ऐतिहासिक और औद्योगिक दृष्टि से महत्वपूर्ण शहर शिवसागर के गोहाईन गांव में स्थित है। यह परिसर कुल 100 एकड़ क्षेत्र में फैला हुआ है, जिसमें से 35 एकड़ क्षेत्र को शैक्षणिक और आवासीय उपयोग के लिए विकसित किया जा रहा है। वर्तमान में, परिसर में 1000 से अधिक छात्रों के लिए कक्षाओं की सुविधा और 300 से अधिक छात्रों के लिए प्रयोगशालाओं की व्यवस्था है। संस्थान में एक अत्याधुनिक मैकेनिकल वर्कशॉप भी है, जो छात्रों को व्यावहारिक ज्ञान प्रदान करने के साथ-साथ कौशल विकास कार्यशालाएं भी आयोजित करता है। छात्रावास की मौजूदा सुविधाएं 400 छात्रों के लिए आवास प्रदान करती हैं, जिनके लिए एक साझा भोजनालय भी उपलब्ध है। अगले सत्र तक 300 और छात्रों के लिए नए छात्रावासों का निर्माण कार्य प्रगति पर है। साथ ही, संकाय सदस्यों के लिए आवासीय क्वार्टरों

का निर्माण भी जारी है, जो अप्रैल 2026 तक पूर्ण होने की संभावना है, जिससे आवासीय परिसर का प्रशासनिक नियंत्रण और बेहतर हो सकेगा।

क्रम संख्या	विवरण	संख्या
1	कक्षाओं की संख्या	13
2	व्याख्यान कक्षों की संख्या	5
3	प्रयोगशालाओं की संख्या	11
4	विभाग/केंद्र में छात्रों के लिए उपलब्ध कंप्यूटरों की संख्या	30

अस्थायी शैक्षणिक भवन:

RGIPT शिवसागर केंद्र के संचालन हेतु एक अस्थायी शैक्षणिक भवन का निर्माण वर्ष 2018 में पूरा किया गया। यह भवन एक मंजिला RCC फ्रेम संरचना है, जिसकी छत ट्रस और GI प्रोफाइल शीट से बनी है, और इसका प्लिंथ क्षेत्रफल 897 वर्ग मीटर है। यह भवन वर्तमान में सभी शैक्षणिक और प्रशासनिक कार्यों के लिए एकमात्र उपयोग में लिया जा रहा है। इस भवन में निम्नलिखित सुविधाएं उपलब्ध हैं:- 6 कक्षाएं, अग्नि एवं सुरक्षा प्रयोगशालाओं के लिए 2 कमरे, 1 कंप्यूटर प्रयोगशाला जिसमें 30 कंप्यूटर हैं, प्रशासनिक कार्यालय, शैक्षणिक कार्यालय, संकाय एवं स्टाफ के बैठने की सुविधा हेतु 6 कमरे

4 कक्षाओं वाला भवन

स्नातक पाठ्यक्रमों की कक्षाएं संचालित करने हेतु अतिरिक्त रूप से 4 कक्षाओं का निर्माण किया गया है। इनमें से 2 कक्षाएं 48 छात्रों की क्षमता वाली हैं और 2 कक्षाएं 96 छात्रों की क्षमता वाली हैं। सभी कक्षाएं इंटरएक्टिव स्मार्ट डिस्प्ले बोर्ड और इलेक्ट्रॉनिक लेक्चरन से सुसज्जित हैं।

केंद्रीय वर्कशॉप एवं सामान्य प्रयोगशाला ब्लॉक

छात्रों को विभिन्न प्रकार की यांत्रिक मशीनों का मूल कौशल प्रदान करने के उद्देश्य से AEI, शिवसागर में 386.28 वर्ग मीटर क्षेत्रफल वाला एक केंद्रीय वर्कशॉप स्थापित किया गया है। इसमें स्टाफ रूम, वॉशरूम, शौचालय तथा भारी मशीनों के उपयोग हेतु पर्याप्त औद्योगिक पावर सॉकेट्स की व्यवस्था है।

इसके साथ ही, 127.87 वर्ग मीटर क्षेत्रफल वाला एक अस्थायी सामान्य प्रयोगशाला भी स्थापित किया गया है, जिससे स्नातक स्तर की प्रयोगशालाएं प्रभावी रूप से संचालित की जा सकें।

सभी प्रकार की सामग्रियों के सुरक्षित भंडारण हेतु, केंद्रीय वर्कशॉप ब्लॉक में 90 वर्ग मीटर क्षेत्रफल वाला 3 कमरों का स्टोररूम भवन भी निर्मित किया गया है।

पूरा ब्लॉक पेवर ब्लॉक और सीमेंट कंक्रीट की सड़कों/पथों द्वारा अच्छी तरह से जुड़ा हुआ है।

CPWD कार्यालय

CPWD के अंतर्गत सभी परियोजनाओं के कार्यों के उचित निष्पादन को सुनिश्चित करने हेतु, गेट नंबर 3 के पास सहायक अभियंता, CPWD का कार्यालय बनाया गया है जिसमें 4 कमरे हैं। यह कार्यालय इस दृष्टिकोण से निर्मित किया गया है कि CPWD की परियोजनाओं के पूर्ण होने के बाद यह भवन AEI की आवश्यकतानुसार उपयोग में लाया जाएगा।

2 छात्रावास (लड़कों के लिए)

छात्रों के आवास की सुविधा हेतु, दो लड़कों के छात्रावासों का निर्माण हाल ही में पूरा किया गया है, जिनकी क्षमता प्रत्येक में 156 छात्रों की है। इन छात्रावासों का उद्घाटन 4 मार्च 2024 को भारत सरकार के पेट्रोलियम एवं प्राकृतिक गैस मंत्रालय के माननीय राज्य मंत्री श्री रमेश्वर तेली द्वारा किया गया।

कुल 312 छात्रों की क्षमता वाले ये दो G+3 मंजिला भवन, शैक्षणिक सत्र 2024-25 से संचालन में आ गए हैं। इनमें से BH-1 को विशेष रूप से प्रथम वर्ष के छात्रों के लिए समर्पित किया गया है।

G+1 शैक्षणिक भवन (भूतल)

अपने विभिन्न विभागों के लिए उपयुक्त अधोसंरचना विकसित करने की प्रक्रिया के तहत, RGIPT शिवसागर में मुख्य शैक्षणिक भवन का निर्माण किया गया है। यह भवन स्नातक स्तर की कक्षाओं और प्रयोगशालाओं के संचालन को अधिक प्रभावी ढंग से सक्षम बनाता है। भवन के भूतल में निम्नलिखित सुविधाएं उपलब्ध हैं:

- भौतिकी, रसायन विज्ञान, पेट्रोलियम इंजीनियरिंग, इलेक्ट्रॉनिक्स इंजीनियरिंग और यूनिट ऑपरेशन की प्रयोगशालाएं
- 2 कक्षाएं, प्रत्येक की क्षमता 60 छात्रों की
- 1 कक्षा, जिसकी क्षमता 120 छात्रों की है, जिसमें स्मार्ट डिस्प्ले की सुविधा है
- संकाय सदस्यों के कार्यालय
- एक पुस्तकालय

इस शैक्षणिक भवन का उद्घाटन 4 मार्च 2024 को भारत सरकार के पेट्रोलियम एवं प्राकृतिक गैस मंत्रालय के माननीय राज्य मंत्री श्री रमेश्वर तेली द्वारा किया गया।

गर्ल्स हॉस्टल-1

स्नातक पाठ्यक्रमों में नामांकित छात्राओं के आवास हेतु, एक G+3 मंजिला छात्रावास भवन का निर्माण किया गया है। इस भवन में 45 डबल ऑक्यूपेंसी कमरे हैं, साथ ही एक आवासीय केयरटेकर और वार्डन कार्यालय के लिए अतिरिक्त कमरे भी उपलब्ध हैं। इस भवन का उद्घाटन 4 मार्च 2024 को भारत सरकार के पेट्रोलियम एवं प्राकृतिक गैस मंत्रालय के माननीय राज्य मंत्री श्री रमेश्वर तेली द्वारा किया गया था। यह छात्रावास शैक्षणिक सत्र 2024-25 से संचालन में आ गया है।

G+1 डाइनिंग हॉल

सभी छात्रावासों के लिए एक साझा मेस सुविधा स्थापित करने हेतु AEI परिसर में एक G+1 डाइनिंग हॉल भवन का निर्माण किया गया है। यह भवन एक समय में 448 छात्रों को भोजन कराने की क्षमता रखता है। इसका उद्घाटन 19 जून 2024 को RGIPT के माननीय निदेशक द्वारा किया गया।
वर्तमान में भवन का केवल एक तल उपयोग में है, जिसमें एक समय में 224 छात्रों को भोजन कराने की व्यवस्था है।

जल आपूर्ति योजना

आगामी 5 छात्रावासों, संकाय आवास और नए शैक्षणिक भवन की जल आपूर्ति की मांग को पूरा करने हेतु एक पूर्ण रूप से कार्यात्मक जल आपूर्ति प्रणाली की स्थापना प्रारंभ की गई है। यह प्रणाली प्रतिदिन 1000+ आवासीय उपयोगकर्ताओं और 2000+ संस्थागत उपयोगकर्ताओं की आवश्यकताओं को पूरा करने के लिए डिज़ाइन की गई है। इस परियोजना में

निम्नलिखित शामिल हैं:- 2.5 लाख लीटर क्षमता वाला भूमिगत जल टैंक, 2 सबमर्सिबल पंप,15 हॉर्सपावर के 6 वितरण पंप, आयरन फिल्ट्रेशन प्लांट, रासायनिक कक्ष

गर्ल्स हॉस्टल के लिए बाड़बंदी

छात्राओं की सुरक्षा और संरक्षा सुनिश्चित करने के लिए गर्ल्स हॉस्टल के चारों ओर बाड़बंदी की गई है। यह 8 फीट ऊंची एमएस आयरन ग्रिल संरचना है, जो छात्रावास भवन को 145 मीटर की परिधि में घेरती है।

परिसर में स्ट्रीट लाइट्स की स्थापना

परिसर में उचित प्रकाश व्यवस्था और 24x7 दृश्यता सुनिश्चित करने के लिए आंतरिक सड़कों के नेटवर्क पर स्ट्रीट लाइट्स की स्थापना की गई है। कुल 127 स्ट्रीट लाइट्स (प्रत्येक 100 वॉट) 6 मीटर ऊंचे खंभों पर 18 मीटर की दूरी पर लगाई गई हैं, जो लगभग 2.5 किलोमीटर के आंतरिक सड़क नेटवर्क को कवर करती हैं।

निर्माणाधीन

शैक्षणिक भवन का प्रथम तल

अतिरिक्त कक्षाओं और संकाय कक्षों की आवश्यकता को पूरा करने हेतु शैक्षणिक भवन के प्रथम तल का विस्तार कार्य निर्माणाधीन है, जो जून के अंत तक पूर्ण होने की संभावना है। इस विस्तार से 100+ क्षमता वाली 5 अतिरिक्त कक्षाएं, 60 क्षमता वाली एक कंप्यूटर प्रयोगशाला, संकाय कक्ष और एक सामान्य अनुसंधान कक्ष की सुविधा उपलब्ध होगी।

परिसीमा दीवार का निर्माण

AEI परिसर की सुरक्षा आवश्यकताओं के अनुसार, पूरे 100 एकड़ परिसर में गेट सहित परिसीमा दीवार का निर्माण प्रारंभ किया गया है। 35 एकड़ परिसर में प्रीकास्ट कंक्रीट ब्लॉकों की एक अतिरिक्त आंतरिक दीवार बनाई गई है। वहीं, 65 एकड़ के निम्न भूमि क्षेत्र में ईंट की दीवार का निर्माण कार्य 90% पूर्ण हो चुका है।

अतिरिक्त छात्रावासों का निर्माण

छात्रावास की बढ़ती मांग को पूरा करने हेतु एक अतिरिक्त लड़कों का छात्रावास और एक अतिरिक्त लड़कियों का छात्रावास निर्माणाधीन है।लड़कों का छात्रावास: G+4 संरचना, 192 छात्रों की क्षमता के साथ, जिसमें इनडोर खेलों और अन्य मनोरंजन गतिविधियों के लिए साझा क्षेत्र होगा। लड़कियों का छात्रावास: G+4 संरचना, 100 बिस्तरों की क्षमता के साथ, जिसमें इनडोर खेलों और अन्य गतिविधियों के लिए साझा क्षेत्र होगा। 31 मार्च 2025 तक:-लड़कियों के छात्रावास की मूल RCC संरचना का कार्य पूर्ण हो चुका है। लड़कों के छात्रावास में G+3 तक RCC संरचना का कार्य पूर्ण हो चुका है।

गेट कॉम्प्लेक्स निर्माण

परियोजना विवरण: परिसर योजना में चिन्हित स्थानों पर **8.27** मीटर ऊँचाई वाले **3** प्रवेश/निकास द्वारों का निर्माण किया जा रहा है। प्रत्येक द्वार में एक केंद्रीय स्तंभ होगा और मुख्य द्वार परिसर में प्रतीक्षालय की व्यवस्था होगी। गेट **1:** निर्माण कार्य लगभग पूर्ण, अंतिम रूप देने का कार्य जारी। गेट **2** और **3:** फिनिशिंग कार्य प्रगति पर।

फैकल्टी हाउसिंग परियोजना

संस्थान के शिक्षकों को आवासीय सुविधा प्रदान करने हेतु एक ग्राउंड + 6 मंजिला फैकल्टी हाउसिंग परियोजना की शुरुआत की गई है। इस परियोजना के अंतर्गत दो टावरों में कुल 36 तीन-बीएचके अपार्टमेंट बनाए जा रहे हैं, साथ ही भूतल पर 36 चार पहिया वाहनों के लिए पार्किंग की व्यवस्था भी की जा रही है।

31 मार्च 2025 तक की प्रगति:- आरसीसी कार्य ग्राउंड + 4 मंजिल तक पूर्ण हो चुका है।

विभाग/केंद्र की विशिष्ट उपलब्धि:

- भारत का पहला केंद्रीय वित्तपोषित संस्थान जो रासायनिक अभियांत्रिकी, कंप्यूटर विज्ञान और अभियांत्रिकी, यांत्रिक अभियांत्रिकी, पेट्रोलियम अभियांत्रिकी, अग्नि और सुरक्षा अभियांत्रिकी, विद्युत अभियांत्रिकी तथा इलेक्ट्रॉनिक्स और इंस्ट्रूमेंटेशन अभियांत्रिकी में विशेषीकृत एकीकृत डिप्लोमा और बी.टेक डिग्री) IDD) पाठ्यक्रम प्रदान करता है।
- उद्योग उन्मुख पाठ्यक्रम
- संस्थान-उद्योग संवाद के लिए उत्कृष्ट मंच प्रदान करता है
- एकीकृत डिप्लोमा-डिग्री कार्यक्रम) IDD):- एकीकृत डिप्लोमा-डिग्री कार्यक्रम) IDD) ऐसे शैक्षणिक कार्यक्रम हैं जो छात्रों को अभियांत्रिकी में डिप्लोमा और स्नातक डिग्री दोनों प्राप्त करने के लिए एक सुव्यवस्थित मार्ग प्रदान करते हैं। ये कार्यक्रम समय की बचत के लिए डिज़ाइन किए गए हैं और डिप्लोमा से स्नातक डिग्री में सहज संक्रमण सुनिश्चित करते हैं। यह कार्यक्रम छात्रों को उच्च शिक्षा का अवसर प्रदान करता है और उन्हें उत्कृष्ट प्रदर्शन के लिए प्रेरित करता है। IDD कार्यक्रम डिप्लोमा और स्नातक डिग्री पाठ्यक्रमों के पाठ्यक्रम को एकीकृत करता है। कार्यक्रम का पहला भाग डिप्लोमा स्तर की पढ़ाई पर केंद्रित होता है, जो अभियांत्रिकी की मूलभूत समझ प्रदान करता है। बाद का भाग पारंपरिक स्नातक डिग्री कार्यक्रम में शामिल उन्नत पाठ्यक्रमों को कवर करता है। छात्रों को डिप्लोमा से डिग्री में प्रवेश के लिए अलग आवेदन प्रक्रिया से नहीं गुजरना पड़ता; यह प्रदर्शन आधारित सहज प्रक्रिया होती है। यह कार्यक्रम राष्ट्रीय शिक्षा नीति)NEP) 2020 को ध्यान में रखते हुए विशेष रूप से डिज़ाइन और संरचित किया गया है, जो पाठ्यक्रमों में बहु-प्रवेश और बहु-निकास विकल्पों को बढ़ावा देता है। इससे छात्रों को विभिन्न स्तरों पर प्रवेश और निकास की स्वतंत्रता मिलती है। NEP 2020 छात्रों को अपनी सुविधा अनुसार कौशल वृद्धि, पुनः-कौशल और उच्च शिक्षा प्राप्त करने के नए आयाम खोलता है। यह नीति अभियांत्रिकी शिक्षा में कौशल विकास और व्यावहारिक अनुभव के महत्व को रेखांकित करती है। प्रस्तावित IDD कार्यक्रम व्यावहारिक प्रशिक्षण और कौशल विकास को शामिल करके व्यापक और समेकित शिक्षा प्रदान करने की अपेक्षा रखता है।

प्लेसमेंट (2024-25)

प्लेसमेंट का विवरण	
प्लेसमेंट की आरंभ तिथि	24/04/2024
प्लेसमेंट के लिए देखी गई कंपनियों की कुल संख्या	4 Nos
कुल नौकरी के प्रस्ताव	6
सबसे अधिक प्लेसमेंट पैकेज की पेशकश	₹ 1,85,000/-
सबसे कम प्लेसमेंट पैकेज की पेशकश	₹ 1,80,000/-
योग्य छात्रों के लिए औसत पैकेज	₹ 1,82,000/-

प्लेसमेंट के लिए कुल पात्र छात्रों का विवरण:

विभाग का नाम	डिप्लोमा

मैकेनिकल इंजीनियरिंग	**24**
केमिकल इंजीनियरिंग	**24**
पेट्रोलियम इंजीनियरिंग	**19**
इलेक्ट्रॉनिक्स और इंस्ट्रूमेंटेशन इंजीनियरिंग	**15**
अग्नि एवं सुरक्षा इंजीनियरिंग	**10**
कुल	92

वर्ष 2024-25 में कुल पात्र छात्र: 92

2024-25 के दौरान नियोजित छात्रों की संख्या का विवरण:

विभाग का नाम	**डिप्लोमा**
मैकेनिकल इंजीनियरिंग	3
केमिकल इंजीनियरिंग	0
पेट्रोलियम इंजीनियरिंग	0
इलेक्ट्रॉनिक्स और इंस्ट्रूमेंटेशन इंजीनियरिंग	1
अग्नि एवं सुरक्षा इंजीनियरिंग	2
कुल	6

वर्ष 2024-25 में कुल नियोजित छात्रों की संख्या: 6

प्रस्तावित शैक्षणिक कार्यक्रम

विभाग द्वारा प्रस्तावित कार्यक्रमों की सूची

क्रम सं.	**कार्यक्रम**	**I वर्ष**	**II वर्ष**	**III वर्ष**
1	डिप्लोमा	280	166	95
2	पीएचडी (संस्थान फेलोशिप के अंतर्गत)	02	02	03
3	पीएचडी (प्रोजेक्ट फेलोशिप के अंतर्गत)	01	0	

विदेश या भारत में सम्मेलनों/कार्यशालाओं/सेमिनारों और संगोष्ठियों में भाग लेने वाले छात्रों/विद्वानों के नाम:

क्र.सं.	**छात्र का नाम**	**रोल नंबर**	**सम्मेलन/सेमिनार/संगोष्ठी/कार्यशाला**	**तिथि एवं स्थान**	**वित्तीय सहायता से**
भारत					
1	पौलोमी बसाक	22EA 0003	1. International Conference on Optimization with Artificial Intelligence and Soft-Computing, 2024. 2. International Conference on Recent Trends in Mathematics, 2025.	1. Sep 30 - Oct 1, 2024, NIT Nagaland 2. 07 - 08 Feb, 2025, University of Delhi.	1. Self 2. Institute

2	गौरव कुमार	22EA 0006	1. One day Energy Research and Sustainability seminar, IEEE 2. Five-day Faculty Development Programme On AI and ML Applications in Power Systems 3. 2024 International BIT Conference (BITCON), BIT Sindri, Dhanbad, India 4. 2025 IEEE 1st International Conference on Smart and Sustainable Developments in Electrical Engineering (SSDEE), IIT Dhanbad, India	1. 28/08/2024 BIT Sindri 2. Dec 2 to 6, 2024, NIT Rourkel 3. Dec 7 to 8,2024, BIT Sindri 4. Feb 28 to March 2, 2025, IIT Dhanbad	1. Self 2. Self-Funding 3. Institute Funding 4. Institute

दीक्षांत समारोह/संस्थान दिवस पुरस्कार जीतने वाले विद्वानों/छात्रों के नाम:

क्रम संख्या	छात्र का नाम	रोल नंबर	पुरस्कार का नाम	पुरस्कार प्रदान करने वाला
1	अर्को सरकार	21EA4PE08	अध्यक्ष स्वर्ण पदक	डॉ. रनोज पेगु (माननीय शिक्षा, सामान्य जनजाति और पिछड़ा वर्ग कल्याण मंत्री)
2	इप्शिता चेतिया	21EA4ME41	निदेशक स्वर्ण पदक	
3	आकाश दीप हजारिका	21EA4CE02	संस्थान स्वर्ण पदक	
4	हरीश गोगोई	21EA4EC10	संस्थान स्वर्ण पदक	
5	पार्थ प्रतिम बोरबोरुआ	21EA4FS16	संस्थान स्वर्ण पदक	
6	भार्गव गोगोई	21EA4ME09	संस्थान स्वर्ण पदक	
7	अर्को सरकार	21EA4PE08	संस्थान स्वर्ण पदक	

संकाय और उनकी गतिविधियाँ

संकाय और उनकी विशेषज्ञता के क्षेत्र:

क्रम संख्या	नाम	योग्यता	कर्मचारी संख्या	पीएचडी डिग्री प्रदान करने की तिथि	विभाग में कार्यभार ग्रहण करने की तिथि	विशेषज्ञता के प्रमुख क्षेत्र (अधिकतम 3)
सहायक प्रोफेसर						
1	डॉ सनत कुमार सिंहा	BTech (KGEC, Kalyani), MTech (IIT Roorkee), PhD (IIT Kharagpur)	229	05/06/2019	4/11/2020	Heterogeneous Nucleation, Monte Carlo Simulation, Surface Icing

2	डॉ. चिन्मयी हजारिका	Ph.D.	236	12/14/2018	31/03/2021	Bioelectronics devices, sensors, MEMs fabrication
3	डॉ. कार्तिक बाबू एन.बी	Ph.D.	257	01/12/2021	03/09/2021	Mechanical Engineering
4	डॉ. भास्कर ज्योति बोरा	B.E., M.Tech, Ph.D.	204	02/10/2016	12/10/2018	Biofuels, Engines and Exergy analysis, Hydrogen application
5	सुश्री अनन्या बोरा	MTech (Health, Safety & Environment)	216		28/09/2020	Behaviour Based Safety, HSE (Health, Safety, Environment) management in Oil and Gas industry, Risk Assessment
6	डॉ नीलांबर बरिहा	Ph.D.	239	9/24/2017	22/4/2021	Industrial Safety and Hazards Management; Fire Modelling and Simulation; Fire Science; Fire Dynamics
7	डॉ. निमिषा रघुवंशी	Ph.D., Post-Doctorate	219	06/01/2017	12/10/2020	Codensed Matter Physics
8	डॉ अनिल कुमार वर्मा	Ph.D.	222	10/07/2018	19/10/2020	Bioenergy (Pyrolysis of biomass and waste plastics, Bio-oil from algal biomass) Wastewater treatment Mass Transfer
9	डॉ. शेखर गोगोई	Ph.D.	194	04/06/2025	25/09/2020	Petroleum Engineering, Enhanced oil recovery and Microfluidics
10	डॉ अरुण कुमार	Ph.D.	221	6/23/2020	16/10/2020	Environmental Remediation, Advanced Oxidation Process, Electrochemical Oxidation
11	डॉ.सतीश कुमार तिवारी	Ph.D.	220	11/03/2017	12/10/2020	Mathematical Modeling, Mathematical Ecology, Nonlinear Dynamics
12	डॉ. सव्यसाची प्रमाणिक	Ph.D.	218	11/26/2018	8/10/2020	Nanoscience, Quantum Dot, Energy Applications

13	डॉ. सौविक डे	Ph.D.	225	11/18/2011	21/10/2020	Physical chemistry, Materials Science
14	डॉ.भास्कर ज्योति मेधी	Ph.D.	197	06/12/2019	25/09/2020	Complex fluids, Experimental fluid dynamics , Renewable Energy
15	डॉ. एम. चक्रपाणि	Ph.D.	235	12/29/2017	31/3/2021	Power Electronics, Renewable Energy Systems and Control Systems
16	डॉ. शिखा द्विवेदी	Ph.D.	228	2/21/2017	2/11/2020	Soft Condensed Matter Theory, Modelling
17	डॉ. संतोष कुमार वर्मा	Ph.D.	256	08/01/2018	24/08/2021	CONTROL SYSTEMS, MICROGRID
18	डॉ. श्रावंती मेधी	Ph.D.	0217	05/09/2020	07/10/2020	Nanotechnolog,Computational Fluid Dynamics (CFD), Rheology of Complex Fluids, Drilling, completion and fracturing fluids and Drilling Hydraulics
19	डॉ सत्यजीत चौधरी	Ph.D.	0223	29/12/2023	19/10/2020	Nanotechnology, Computational Fluid Dynamics (CFD); Machine Learning; Reservoir Engineering, Rheology of Complex Fluids, Drilling Engineering
20	डॉ. चिन्मय जीत सरमा	Ph.D.	0174	16/05/2024	24/09/2020	IC Engine, Alternate Fuels and Petroleum Exploration and Production
21	डॉ. रूपजीत सैकिया	Ph.D.	0173	01/01/2021	25/09/2020	Fuzzy Set Theory, Uncertainty Modelling and Hesitant Fuzzy Set Theory
22	डॉ. अभिमन्यु कर	Ph.D.	0227	05/03/2018	29/10/2020	Thermal Science and Engineering

तकनीकी और गैर-शिक्षण कर्मचारी:

क्रम संख्या	नाम, योग्यता	पदनाम	विभाग में नियुक्ति की तिथि
1	डॉ. सुरामोनी बोरठाकुर, पीएच.डी.	तकनीकी अधीक्षक	07-02-2022
2	श्री अघना तियास मंडल, एम.टेक. (ईसीई)	तकनीकी अधीक्षक	16-02-2022
3	डॉ. सौरव भराली, पीएच.डी.	तकनीकी अधीक्षक	28-02-2022
4	सुश्री परिश्मिता शर्मा बरुआ, एम.एससी. (सांख्यिकी)	सहायक	20-01-2022
5	श्री पुलकेश कुमार, बी.टेक (ईसीई), एमबीए (वित्त एवं विपणन)	सहायक	07-03-2022
6	श्री कौशिक दास, एम.टेक (ईसीई)	सहायक	24-03-2024
7	डॉ. तपन ज्योति गोगोई, पीएच.डी.	तकनीशियन	18-01-2022
8	श्री सुमीर कुमार सैकिया, एम.एससी. (भौतिक विज्ञान)	तकनीशियन	20-01-2022
9	ज्योतिर्मन भारद्वाज, बी.टेक (सिविल)	सहायक अभियंता (आउटसोर्स)	14-02-2022
10	निमिषा नियोग, एमटेक(ईसीई)	तकनीकी अधीक्षक (आउटसोर्स)	24-02-2022
11	गार्गी कश्यप, एमटेक (ईसीई)	तकनीकी अधीक्षक (आउटसोर्स)	29-03-2022
12	शांतनु दत्ता, बी.ए. (एम.ए. पॉल.साइंस की पढ़ाई)	सहायक (आउटसोर्स)	18-12-2017
13	बिक्रम चांगकाकोटी, बी.ए. (असमिया में एम.ए. की पढ़ाई)	सहायक (आउटसोर्स)	18-12-2017
14	दीपा बोर्गोहेन, एच. एस	मैट्रन (आउटसोर्स)	12-04-2021
15	माधब ज्योति बोरगोहेन, बी. ए	केयरटेकर (आउटसोर्स)	30-12-2021
16	बिदुयोत दास, एचएसएलसी	इलेक्ट्रीशियन/प्लंबर (आउटसोर्स)	01-04-2018
17	सूरज बुरागोहेन, बी. ए	चपरासी (आउटसोर्स)	01-04-2018
18	प्रताप चौधरी बोराह, एच. एस	चपरासी (आउटसोर्स)	01-04-2020
19	प्रांजल दास, एच. एस	चपरासी (आउटसोर्स)	01-04-2020
20	अरूप लहन, बी.ए	चपरासी (आउटसोर्स)	01-04-2022
21	उत्तम उरांग, 8वां	सफाईकर्मी (आउटसोर्स)	01-04-2018
22	देबोजीत दास, 8वें	सफाईकर्मी (आउटसोर्स)	01-09-2018
23	उत्पल चुटिया, बी.ए	सफाईकर्मी (आउटसोर्स)	01-04-2022
24	अजॉय भुइयां, 7वां	सफाईकर्मी (आउटसोर्स)	07-02-2021
25	बिराज विश्वास, 9वीं	सफाईकर्मी (आउटसोर्स)	07-02-2021
26	प्रांजल दास, 9वीं	सफाईकर्मी (आउटसोर्स)	07-02-2021
27	सुना दास, 9वीं	सफाईकर्मी (आउटसोर्स)	07-02-2021

28	कल्याण बुरागोहेन, एच. एस	सफाईकर्मी (आउटसोर्स)	01-04-2022
29	सिद्धार्थ चेतिया, एच.एस.एल.सी	प्लंबर (आउटसोर्स)	02.09.2024
30	बासुदेव दास, एच.एस.एल.सी	इलेक्ट्रीशियन (आउटसोर्स)	02.09.2024
31	सौरभ महतु, एच. एस	सफाईकर्मी (आउटसोर्स)	02.09.2024
32	संदीप गोगोई, एच. एस	सफाईकर्मी (आउटसोर्स)	02.09.2024
33	रूपज्योति चेतिया, एच.एस.एल.सी	सफाईकर्मी (आउटसोर्स)	02.09.2024
34	मानस ज्योति सरमा, एच. एस	सफाईकर्मी (आउटसोर्स)	02.09.2024
35	जूरी बोरा, एच.एस.एल.सी	सफाईकर्मी (आउटसोर्स)	02.09.2024
36	चंदन सिंह, 9वां	सफाईकर्मी (आउटसोर्स)	02.09.2024

संकाय सदस्यों द्वारा आयोजित लघु-अवधि पाठ्यक्रम/कार्यशालाएं/सेमिनार/संगोष्ठी/सम्मेलन:

क्रमांक	समन्वयक	शीर्षक	अवधि
1	सुश्री अनन्या बोरा और डॉ. नीलांबर बरिहा	Modular Course on “Safety in Drilling Operations”	17th August 2025 - 25th August 2025
2	डॉ. कार्तिक बाबू एन.बी	Skill Development Program for the course Welding and Fabrication for Heavy Industries	14-18 July, 2025

शैक्षणिक संस्थानों और सार्वजनिक क्षेत्र के उपक्रमों में संकाय सदस्यों द्वारा भाग लिए जाने वाले अल्पकालिक पाठ्यक्रम/कार्यशालाएं/सेमिनार/संगोष्ठी/सम्मेलन/प्रशिक्षण कार्यक्रम:

क्र.सं.	संकाय सदस्य का नाम	शीर्षक	अवधि और स्थान
सेमिनार/संगोष्ठी/सम्मेलन			
1	डॉ. अभिमन्यु कर	GIAN course on Adsorption Techniques for CO2 Capture: Modeling and Simulation Insights	IIPE, Vishakapattanam
2	अनन्या बोरा	Certificate Course on ESG & Sustainability	Online Mode (January 2024-June 2024) Centre of Excellence in Occupational Health, Safety, Fire & Environment (C-OHSFE), GD Goenka University
3	डॉ नीलांबर बरिहा	Green Hydrogen Generation Opportunities and Challenges in India	09th Dec., 2024 to 14th Dec., 2024, School of Mechanical Engineering, Shri Mata Vaishno Devi University Katra J&K (Online mode)
4	डॉ नीलांबर बरिहा	Sustainable Carbon-Free Technologies for Hydrogen Generation and Storage	24th Feb. 2025 to 01st March 2025, National Institute of Technology Tiruchirappalli (Online mode)

5	डॉ.सतीश कुमार तिवारी	One week Faculty Development Program on Mathematical Modelling and Simulation using Python-Level 1	2-6, December, 2024 Delhi Technological University (Online)
6	डॉ सनत कुमार सिंहा	Modern Algebra NPTEL Online Certification	Jul-Sep 2024, Offline Exam at Lahowal College, Dibrugarh, Assam
7	डॉ सनत कुमार सिंहा	Data Base Management System NPTEL Online Certification	Jul-Sep 2024, Offline Exam at Lahowal College, Dibrugarh, Assam

शैक्षणिक और व्यावसायिक समाजों की फैलोशिप:

क्र.सं.	संकाय सदस्य का नाम	फेलोशिप का विवरण
1	डॉ. शेखर गोगोई	Society of Petroleum Engineers (SPE) membership
2	डॉ. श्रावंती मेधी	Society of Petroleum Engineers (SPE) membership

संकाय सदस्यों द्वारा लिखित/सह-लिखित पुस्तकें, मोनोग्राफ:

क्रम संख्या	लेखक/सह-लेखक का नाम	शीर्षक	प्रकाशक
1	डॉ. कार्तिक बाबू एन.बी	Tribological behavior of polymeric composites for automobile applications	Woodhead Publishing Series in Composites Science and Engineering

पत्रिकाओं के संपादकीय बोर्ड के संकाय सदस्य:

क्र.सं.	संकाय सदस्य का नाम	पद (संपादक/सदस्य)	जर्नल का नाम
1	डॉ. सब्यसाची प्रमाणिक	समीक्षा संपादक	The Editorial Board of Chemical Sensors (specialty section of Frontiers in Sensors) Journal

पीएचडी पर्यवेक्षण

क्र.सं.	संकाय का नाम	छात्र का नाम और पंजीकरण का वर्ष	नियमित / अंशकालिक	आंतरिक / बाह्य	पर्यवेक्षक / सह-पर्यवेक्षक
1	डॉ. भास्कर ज्योति बोरा	Akshay Jain & 2020	Regular		Supervisor
2	डॉ नीलांबर बरिहा	V.S. Vivek & 2023	Regular	External	Supervisor
3	डॉ. निमिषा रघुवंशी	Mr. Rotish Sarkar, 2023	Regular	Internal	Supervisor
4	डॉ.सतीश कुमार तिवारी	Ms. Poulomi Basak, Year of Registration: 2022	Regular	Internal	Supervisor
5	डॉ. सब्यसाची प्रमाणिक	Farhin Akhtar Year of Registration - 2023	Regular		Supervisor

6	डॉ सत्यजीत चौधरी	Mr. Sariful Mehboob Hassan, 2024	Part-time		Supervisor
7	डॉ. भास्कर ज्योति मेधी	Mr. Prasenjit Barman	Part time	External	Supervisor
8	डॉ. भास्कर ज्योति मेधी	Mr. Iftiquer Moiz	Part time	External	Co-Supervisor
9	डॉ. भास्कर ज्योति मेधी	Ramanan Chidambaram Jayaraj, Curtin University, Malaysia	Full time	External	Associate Supervisor
10	डॉ. संतोष कुमार वर्मा	Gaurav Kumar, 2022	Regular	Internal	Supervisor
11	डॉ. श्रावंती मेधी	Md. Sameer, 2022 Mr. Rathindra Prasad Kakati, 2022 Mr. Iftiquer Moiz, 2023	Part time	External	Supervisor
12	डॉ. श्रावंती मेधी	Mr. Sariful Mehboob Hassan, 2024	Part-time		Co-Supervisor
13	डॉ. चिन्मय जीत सरमा	Himanshu Kumar, 2024 Animesh Sarma Tamuly, 2024	Part time	External	Supervisor
14	डॉ सनत कुमार सिंहा	Aparajita Baruah, 2024	Full time		Supervisor
15	डॉ. कार्तिक बाबू एन.बी	Mr. Tamilarasan C & July 2024, Mr. Paramasamy P & July 2025	Full time	External	Supervisor
16	डॉ अरुण कुमार	Rohit Raman, 2025	Part time	External	Supervisor
17	डॉ. अनिल कुमार वर्मा	Rohit Raman, 2025	Part time	External	Co-Supervisor

पत्रिकाओं का विवरण

क्रमांक	संकाय का नाम	विवरण
1	डॉ. कार्तिक बाबू एन.बी	1. Ramesh, T., Karthik Babu NB., NS, B., Kannan, A. R., & Mohan, D. G. (2024). Prediction of formability and effects of process parameters on the adhesively bonded composite metallic sheets. *Journal of Adhesion Science and Technology*, *38*(9), 1378-1394. 2. PadeepRaja, C., Karthik Babu, N.B. (2024). Progress in the Optimization of Compositional Design and Thermomechanical Processing of Metastable β Ti Alloys for Biomedical Applications. ACS Biomaterials Science & Engineering. 3. Rajendran, S., Palani, G., Karthik Babu, N. B., Veerasimman, A. P., Yang, Y. L., & Shanmugam, V. (2024). Solid particle erosion in fibre composites: A

		review. *Journal of Reinforced Plastics and Composites*, 07316844241255007. 4. Shanmugam, V., Babu, K., Kannan, G., Mensah, R. A., Samantaray, S. K., & Das, O. (2024). The thermal properties of FDM printed polymeric materials: A review. *Polymer degradation and stability*, *228*, 110902. 5. Babu, N. K., Vignesh, V., Balasubramanian, K. A., Khan, A., Hashem, M., & Fouad, H. (2024). Effect of natural hybrid fillers reinforced vinyl ester composites on mechanical and physical properties. *Materials Research Express*, *11*(10), 105504. 6. Rajendran, S., Yang, Y. L., Marimuthu, U., Veerasimman, A., Palani, G., Babu, K., & Shanmugam, V. (2025). Thrust Force and Delamination Analysis on Redmud-filled Coconut Sheath Fiber Polyester Composite. *Mechanics of Advanced Composite Structures*, *12*(1), 43-52. 7. NB, Karthik Babu., Balaji, N. S., & Saikiran, A. (2025). Effect of Nutrient-Based Alloying Elements on Biodegradable Magnesium Alloys: Evolution, Challenges, and Strategies for Orthopaedic Applications. *Biomedical Engineering Advances*, 100161. 8. Vignesh V., & Karthik Babu NB. (2025). Development of Hybrid Fiber-Reinforced Vinyl Ester Composites for Civil and Automotive. Scientific Reports (Accepted)
2	डॉ.सतीश कुमार तिवारी	1. Basak, P., Tiwari S. K., Tripathi, J. P., Tiwari, V., Mishra, R. K.(2024). Plankton interaction model: Effect of prey refuge and harvesting. *Computational and Mathematical Biophysics,* 12(1), 20240011, 1-12. 2. Tripathi, D., Tripathi, J. P., Tiwari, S. K., Jana, D., Hou, L. F., Shi , Y., Sun, G Q., Tiwari, V., Asamoah, J. K K (2024). Modified Holling Tanner diffusive and non-diffusive predator–prey models: The impact of prey refuge and fear effect. *Results in Physics*, 65(2024), 107995, 1-17. 3. Tripathi, J. P., Bhuria, S., Yadav, S., Tiwari, S. K., Tripathi, D., Tiwari, V. (2025). Dynamics of a Prey-Predator Model: Untangling the Role of Fear-Induced Allee Effect, Prey Refuge, and Group Defense. *Journal of Biological Systems*, 33(1), 143-194. 4. Upadhyay, R.K., Kumari, S., Mondal, B. and Tiwari, S.K. (2025). Cross-diffusive pattern formation and Hopf-bifurcation analysis of two species plankton interaction model. *Indian Journal of Pure and Applied Mathematics*,

		2025, 1-27. 5. Yadav, S., Tripathi, J.P., Bhuria, S., Tiwari, S.K., Tripathi, D., Tiwari, V., Upadhyay, R.K. and Kang, Y. (2025). Ecological system with fear induced group defense and prey refuge. *Differential Equations and Dynamical Systems*, 2025, 1-48.
3	डॉ सनत कुमार सिंहा	1. Chatterjee, S., Ghosh, S., Vadakkayil, N., Paul, T., **Singha, S.K.**, and Das, S.K. (2024). Mpemba effect in pure spin systems: A universal picture of the role of spatial correlations at initial states. *Physical Review E*, 110, L012103. [Published 25-Jul-24]
4	डॉ सत्यजीत चौधरी	1. Chowdhury, S., Singh, R., Shrivastava, S. K., & Sangwai, J. S. (2023). Biodiesel Production: Advance Techniques and Future Prospective. Renewable Energy Innovations: Biofuels, Solar, and Other Technologies, 205. 2. Dehury, R., Chowdhury, S., & Sangwai, J. S. (2024). Dynamics of hydrogen storage in subsurface saline aquifers: A computational and experimental pore-scale displacement study. International Journal of Hydrogen Energy, 69, 817-836. 3. Medhi, S., Chowdhury, S., Dehury, R., Khaklari, G. H., Puzari, S., Bharadwaj, J., ... & Sangwai, J. S. (2024). Comprehensive review on the recent advancements in nanoparticle-based drilling fluids: properties, performance, and perspectives. Energy & Fuels, 38(15), 13455-13513.
5	डॉ. श्रावंती मेधी	1. Medhi, S., Chowdhury, S., Dehury, R., Khaklari, G. H., Puzari, S., Bharadwaj, J., ... & Sangwai, J. S. (2024). Comprehensive review on the recent advancements in nanoparticle-based drilling fluids: properties, performance, and perspectives. Energy & Fuels, 38(15), 13455-13513.

डिजाइन और विकास गतिविधियाँ

पेटेंट

क्र. सं.	संकाय सदस्य का नाम	पेटेंट का शीर्षक
1	डॉ. कार्तिक बाबू एन.बी	VERTICAL AXIS WIND TURBINE WITH SOLAR PANEL

प्रायोजित अनुसंधान परियोजनाएँ

क्रम संख्या	शीर्षक	अवधि	वित्तपोषण एजेंसी	राशि (लाखों रुपये में)	समन्वयक
1	Carbon Black and Ion-Functionalised Fillers Reinforced High Conductivity Polymer Nanocomposites: An Investigation Through Various Additive Manufacturing Techniques	24 months (March 2024 to March 2026)	DST-CRG	28,00,000/-	डॉ. कार्तिक बाबू एन.बी
2	Development of a kinetic and deployable dual-use living space for low income living and working environment	24 months (2025-2027)	DST-TDP	19,01,300/-	डॉ. अभिमन्यु कर

शोध प्रकाशन:

डॉ. कार्तिक बाबू एनबी

1. Ramesh, T., Karthik Babu NB., NS, B., Kannan, A. R., & Mohan, D. G. (2024). Prediction of formability and effects of process parameters on the adhesively bonded composite metallic sheets. *Journal of Adhesion Science and Technology*, *38*(9), 1378-1394.
2. PadeepRaja, C., Karthik Babu, N.B. (2024). Progress in the Optimization of Compositional Design and Thermomechanical Processing of Metastable β Ti Alloys for Biomedical Applications. ACS Biomaterials Science & Engineering.
3. Rajendran, S., Palani, G., Karthik Babu, N. B., Veerasimman, A. P., Yang, Y. L., & Shanmugam, V. (2024). Solid particle erosion in fibre composites: A review. *Journal of Reinforced Plastics and Composites*, 07316844241255007.
5. Shanmugam, V., Babu, K., Kannan, G., Mensah, R. A., Samantaray, S. K., & Das, O. (2024). The thermal properties of FDM printed polymeric materials: A review. *Polymer degradation and stability*, *228*, 110902.
6. Babu, N. K., Vignesh, V., Balasubramanian, K. A., Khan, A., Hashem, M., & Fouad, H. (2024). Effect of natural hybrid fillers reinforced vinyl ester composites on mechanical and physical properties. *Materials Research Express*, *11*(10), 105504.
7. Rajendran, S., Yang, Y. L., Marimuthu, U., Veerasimman, A., Palani, G., Babu, K., & Shanmugam, V. (2025). Thrust Force and Delamination Analysis on Redmud-filled Coconut Sheath Fiber Polyester Composite. *Mechanics of Advanced Composite Structures*, *12*(1), 43-52.
8. NB, Karthik Babu., Balaji, N. S., & Saikiran, A. (2025). Effect of Nutrient-Based Alloying Elements on Biodegradable Magnesium Alloys: Evolution, Challenges, and Strategies for Orthopaedic Applications. *Biomedical Engineering Advances*, 100161.
9. Vignesh V., & Karthik Babu NB. (2025). Development of Hybrid Fiber-Reinforced Vinyl Ester Composites for Civil and Automotive. Scientific Reports (Accepted)

डॉ.सतीश कुमार तिवारी

1. Basak, P., Tiwari S. K., Tripathi, J. P., Tiwari, V., Mishra, R. K.(2024). Plankton interaction model: Effect of prey refuge and harvesting. *Computational and Mathematical Biophysics,* 12(1), 20240011, 1-12.
2. Tripathi, D., Tripathi, J. P., Tiwari, S. K., Jana, D., Hou, L. F., Shi , Y., Sun, G Q., Tiwari, V., Asamoah, J. K K (2024). Modified Holling Tanner diffusive and non-diffusive predator–prey models: The impact of prey refuge and fear effect. *Results in Physics*, 65(2024), 107995, 1-17.
3. Tripathi, J. P., Bhuria, S., Yadav, S., Tiwari, S. K., Tripathi, D., Tiwari, V. (2025). Dynamics of a Prey-Predator Model: Untangling the Role of Fear-Induced Allee Effect, Prey Refuge, and Group Defense. *Journal of Biological Systems*, 33(1), 143-194.
4. Upadhyay, R.K., Kumari, S., Mondal, B. and Tiwari, S.K. (2025). Cross-diffusive pattern formation and Hopf-bifurcation analysis of two species plankton interaction model. *Indian Journal of Pure and Applied Mathematics*, 2025, 1-27.
5. Yadav, S., Tripathi, J.P., Bhuria, S., Tiwari, S.K., Tripathi, D., Tiwari, V., Upadhyay, R.K. and Kang, Y. (2025). Ecological system with fear induced group defense and prey refuge. *Differential Equations and Dynamical Systems*, 2025, 1-48.

डॉ सनत कुमार सिंहा

1. Chatterjee, S., Ghosh, S., Vadakkayil, N., Paul, T., Singha, S.K., and Das, S.K. (2024). Mpemba effect in pure spin systems: A universal picture of the role of spatial correlations at initial states. *Physical Review E*, 110, L012103. [Published 25-Jul-24]

डॉ सत्यजीत चौधरी

1. Chowdhury, S., Singh, R., Shrivastava, S. K., & Sangwai, J. S. (2023). Biodiesel Production: Advance Techniques and Future Prospective. Renewable Energy Innovations: Biofuels, Solar, and Other Technologies, 205.
2. Dehury, R., Chowdhury, S., & Sangwai, J. S. (2024). Dynamics of hydrogen storage in subsurface saline aquifers: A computational and experimental pore-scale displacement study. International Journal of Hydrogen Energy, 69, 817-836.
3. Medhi, S., Chowdhury, S., Dehury, R., Khaklari, G. H., Puzari, S., Bharadwaj, J., & Sangwai, J. S. (2024). Comprehensive review on the recent advancements in nanoparticle-based drilling fluids: properties, performance, and perspectives. Energy & Fuels, 38(15), 13455- properties, performance, and perspectives. Energy & Fuels, 38(15), 13455-13513.

छात्र कल्याण एवं शिकायत प्रकोष्ठ की गतिविधियाँ

क्रम संख्या	संकाय का नाम	विवरण	उद्धरणों की संख्या
1	डॉ. कार्तिक बाबू एन.बी	Shanmugam, Vigneshwaran, Rhoda Afriyie Mensah, Karthik Babu, Sidique Gawusu, Avishek Chanda, Yongming Tu, Rasoul Esmaeely Neisiany, Michael Försth, Gabriel Sas, and Oisik Das. "A review of the synthesis, properties, and applications of 2D materials." Particle & Particle Systems Characterization 39, no. 6 (2022): 2200031.	383
2	डॉ. भास्कर ज्योति बोरा	Thanh Tuan Le, Prabhakar Sharma, Viet Dung Tran, Thanh Hai Truong. “Fueling the future: A comprehensive review of hydrogen energy systems and their challenges.” International Journal of Hydrogen Energy 54, (2024): 791-816.	471
3	डॉ सत्यजीत चौधरी	Chowdhury, Satyajit , Saket Shrivastava, Abhijit Kakati, and Jitendra S. Sangwai. "Comprehensive review on the role of surfactants in the chemical enhanced oil recovery process." Industrial & Engineering Chemistry Research 61, no. 1 (2022): 21-64.	187
4	डॉ. श्रावंती मेधी	Medhi, S., Chowdhury, S., Gupta, D. K., & Mazumdar, A. (2020). An investigation on the effects of silica and copper oxide nanoparticles on rheological and fluid loss property of drilling fluids. *Journal of Petroleum Exploration and Production Technology*, *10*(1), 91-101.	131
5	डॉ. भास्कर ज्योति मेधी	Ramanan, C. J., Lim, K. H., Kurnia, J. C., Roy, S., Bora, B. J., & Medhi, B. J. (2024). Towards sustainable power generation: Recent advancements in floating photovoltaic technologies. *Renewable and Sustainable Energy Reviews*, *194*, 114322.	118

ज्ञान अर्पण

GyanArpan is a noble initiative by the institute aimed at promoting education and providing social support to underprivileged children in nearby villages. The activities run throughout the year on weekends. The program hosts interactive events on weekends, featuring healthy competitions with a small gift and campus visits for local school children. To expand the reach of GyanArpan, volunteers actively engaged with additional schools and teachers in Sivasagar, fostering connections to include more institutions in this

initiative. During these events, the volunteers share their knowledge and experiences, inspiring the children to explore science and engineering fields and broadening their perspectives. The initiative also creates opportunities for meaningful mentorship, allowing volunteers to guide, advise, and motivate young minds, encouraging them to dream big and pursue their goals.

विशेषज्ञ सत्र: "कृत्रिम बुद्धिमत्ता और मशीन लर्निंग: भविष्य को बदलना"

An expert talk on “Artificial Intelligence and Machine Learning: Transforming the Future” was organized at RGIPT Sivasagar Campus on April 9, 2025. The session was led by Dr. Manoj Kumar Sarma, an eminent expert in the field of Artificial Intelligence and Machine Learning. Dr. Sarma shared valuable insights on the rapid advancements in AI and ML technologies and their wide-ranging applications in various industries. He also discussed the ethical implications, challenges, and opportunities these technologies present for future engineers and researchers. The session received an enthusiastic response from students and faculty members, who actively interacted with the speaker during the Q&A session. The event proved to be highly informative and inspiring, encouraging participants to explore the potential of AI and ML in their academic and professional pursuits.





खेल सप्ताह: क्रीड़ा ऊर्जा 2025

The institute’s annual sports fest, Krida Oorja 2025, was held on February 15-16, 2025, with the objective of promoting physical fitness, teamwork, and a spirit of healthy competition among students. The event brought together enthusiastic participants from all batches, competing in a wide range of indoor and outdoor sports, including football, cricket, volleyball, badminton, chess, carrom, tug of war, and kabaddi. The campus came alive with energy and sportsmanship as students demonstrated skill, determination, and mutual respect throughout the competitions. The fest successfully fostered a strong sense of unity, camaraderie, and institute pride. The closing ceremony recognized the winners and outstanding performers with medals and trophies, celebrating their dedication and achievements.

तकनीकी और सांस्कृतिक उत्सव: ज़िवोरोंग’24

The RGIPT, Sivasagar Campus’ annual techno-cultural fest, XIWORONG’24, was a vibrant three-day extravaganza held from November 8 to 10, 2024. This event provided a remarkable platform for young talents to showcase their skills and passion to a wider and more enthusiastic audience. The fest offered a rich blend of technical and cultural events, including workshops, exhibitions, seminars by dignitaries, as well as dance and singing competitions. For the first time in the northeastern region, AEI hosted a 3-pound

category Robo war, adding a unique highlight to the event. With over 65 events on the roster—comprising 10 technical competitions, 7 cultural contests, and 14 art and literature activities—the festival boasted a total prize pool of ₹1.5 lakh. Daytime activities featured technical exhibitions and competitions like science exhibitions, chemical car, Best from Waste, craft displays, drone workshops, and oral and poster presentations. Evenings were a celebration of creativity and talent, with music, dance, and fashion performances uniting participants from across Assam, making XIWORONG'24 a memorable and inspiring event.

विश्व बन्धुत्व दिवस

The Universal Brotherhood Day was observed on 11th September 2024 at RGUPT, Sivasagar Campus, in collaboration with Vivekananda Kendra Vidyalaya, Sivasagar. The session began at 11:00 AM with a welcome address, setting a thoughtful tone for the event. The program featured an inspiring talk by Dr. Soumitra Puzari, who delivered a thought-provoking speech emphasizing the significance of universal brotherhood and the timeless teachings of Swami Vivekananda. Dr. Puzari highlighted the relevance of these ideals in today's world and urged the youth to uphold the values of unity, compassion, and service to the nation. The event successfully fulfilled its objective of inspiring students by focusing on the values of our motherland and fostering a sense of national pride and social responsibility among the participants.

जागरूकता कार्यक्रम: मानसिक स्वास्थ्य और शारीरिक स्वास्थ्य

A student health awareness program was held on August 20, 2024, emphasizing the significance of adopting a healthy lifestyle to enhance academic performance. The event featured Dr. KSV Surya Prakash, a renowned neurosurgeon from Su-Ka-Pha Multispeciality Hospital, Sivasagar, as the keynote speaker. His insightful lecture and practical demonstrations were highly appreciated and proved invaluable for the students.

Mental health is just as crucial as physical health for leading a fulfilling life and becoming a well-rounded individual. Recognizing this, the Student Welfare Council organized a mental health awareness program titled Mind Control on 28-30th July 2024 to highlight the importance of addressing mental health concerns among students. The program featured a spiritual speaker from a Guwahati-based association, who conducted two engaging sessions on mind control techniques to promote mental well-being. The enthusiastic participation of students and their thoughtful questions about mental health made the event a resounding success

अध्याय-22

ऊर्जा संस्थान बेंगलुरु

स्थापना वर्ष: 2018

विभाग/केंद्र के प्रमुख/समन्वयक/प्रभारी: डॉ. अर्जुन देव, 30 सितंबर 2020 से प्रभावी

भारत सरकार के पेट्रोलियम और प्राकृतिक गैस मंत्रालय (MoPNG) ने तकनीकी उन्नति को बढ़ावा देने के उद्देश्य से राजीव गांधी इंस्टीट्यूट ऑफ पेट्रोलियम टेक्नोलॉजी (RGIPT) की स्थापना की है, जिसे संसद द्वारा पारित RGIPT अधिनियम 2007 के तहत मान्यता प्राप्त है। **इस विशेष मार्गदर्शन और सहयोग के अंतर्गत,** एनर्जी इंस्टीट्यूट, बेंगलुरु (EIB) **— जो कि RGIPT का एक केंद्र है —** 2018 से बेंगलुरु में एक अस्थायी परिसर में कार्यरत है। **इस संस्थान की स्थापना के लिए,** कर्नाटक सरकार द्वारा RGIPT को बेंगलुरु के होसकोटे तालुक के कांबलीपुरा क्षेत्र में 150 एकड़ भूमि आवंटित की गई है।

एनर्जी इंस्टीट्यूट, बेंगलुरु (EIB) को एक प्रतिष्ठित शैक्षणिक और अनुसंधान संस्थान के रूप में विकसित करने की परिकल्पना की गई है, जो ऊर्जा के क्षेत्र में यथार्थवादी और अत्याधुनिक शैक्षणिक एवं अनुसंधान कार्यक्रम प्रदान करता है। यह संस्थान युवा मस्तिष्कों को प्रेरित करने और आवश्यक तकनीकी विशेषज्ञता विकसित करने का प्रयास करता है। EIB का उद्देश्य अनुसंधान एवं विकास गतिविधियों, ऊर्जा नवाचार और उद्यमिता के माध्यम से सामाजिक विकास को गति देना है। संस्थान का लक्ष्य है:- ऊर्जा के क्षेत्र में अग्रणी औद्योगिक, तकनीकी और मौलिक अनुसंधान करना, छात्रों को गुणवत्तापूर्ण शिक्षा प्रदान करना, ऊर्जा क्षेत्र में कार्यरत औद्योगिक पेशेवरों के लिए अल्पकालिक प्रशिक्षण पाठ्यक्रम आयोजित करना। इसके अतिरिक्त, संस्थान एक एनर्जी एक्सपीरियंस सेंटर, इनक्यूबेशन सेल / ई-सेल, तथा लाइसेंसिंग और वाणिज्यीकरण कार्यालय की स्थापना की योजना बना रहा है, जिससे ऊर्जा प्रौद्योगिकियों का गहन अनुभव प्रदान किया जा सके।

प्रमुख शोध क्षेत्र:

सौर फोटोवोल्टिक (Solar Photovoltaic)

- सौर सेल मॉडलिंग और निर्माण
- सौर पीवी ग्रिड एकीकरण और अनुकूलन
- स्मार्ट ग्रिड / माइक्रो-ग्रिड

सौर तापीय (Solar Thermal)

- गैर-संकेन्द्रण कलेक्टरों की पुनः डिज़ाइन
- संकेन्द्रण सौर संयंत्र
- सौर जल हीटर और ड्रायर

ई-मोबिलिटी (E-Mobility)

- इलेक्ट्रिक और हाइब्रिड पावरट्रेन डिज़ाइन, मॉडलिंग और अनुकूलन
- हाइब्रिड वाहनों की रेंज विस्तार
- बैटरी प्रबंधन प्रणाली के लिए पुनः डिज़ाइन किया गया तापीय डिज़ाइन

ऊर्जा क्षेत्र में डिजिटलीकरण (Digitalisation in Energy Sector)

- मशीन लर्निंग
- डीप लर्निंग
- कम्प्यूटेशनल इंटेलिजेंस
- आर्टिफिशियल इंटेलिजेंस
- **IoT / IIoT /** डिजिटल ट्विन

आधारभूत संरचना

क्रम संख्या	विवरण	संख्या
1	कक्षाओं की संख्या	09
2	व्याख्यान कक्षों/सेमिनार कक्षों की संख्या	01
3	प्रयोगशालाओं की संख्या (आरई/ईवीटी)	02
4	विभाग/केंद्र में छात्रों के लिए उपलब्ध कंप्यूटरों की संख्या	100

ऊर्जा संस्थान बेंगलुरु :भविष्य को शक्ति प्रदान करना

ऊर्जा संस्थान बेंगलुरु (EIB) का उद्देश्य उच्च गुणवत्ता वाले शैक्षणिक कार्यक्रम और अनुसंधान समाधान प्रदान करना है, जो राष्ट्रीय मिशनों और उद्योग की आवश्यकताओं के अनुरूप हों। नवाचार और सतत विकास पर केंद्रित, संस्थान निम्नलिखित राष्ट्रीय महत्व के शैक्षणिक कार्यक्रम प्रदान करता है:- नवीकरणीय ऊर्जा, इलेक्ट्रिक वाहन प्रौद्योगिकी ये कार्यक्रम छात्रों को भारत के ऊर्जा संक्रमण और तकनीकी प्रगति में योगदान देने के लिए आवश्यक ज्ञान और कौशल से लैस करते हैं।अनुसंधान के प्रमुख क्षेत्र सौर फोटोवोल्टिक और तापीय प्रणाली, इलेक्ट्रिक मोबिलिटी और वाहन तकनीक, ऊर्जा क्षेत्र में डिजिटलाइजेशन EIB ने ज्ञान के क्षेत्र में उल्लेखनीय प्रगति की है, जिसमें संकाय सदस्यों द्वारा प्रभावशाली प्रकाशनों और सहयोगी परियोजनाओं के माध्यम से वैश्विक अनुसंधान समुदाय में महत्वपूर्ण योगदान दिया गया है।

विभाग द्वारा प्रस्तावित कार्यक्रमों की सूची

क्रम संख्या	विभाग द्वारा प्रस्तावित कार्यक्रमों की सूची
1	एम.टेक नवीकरणीय ऊर्जा
2	एम.टेक इलेक्ट्रिक वाहन प्रौद्योगिकी

प्रवेश प्राप्त छात्र

क्रम संख्या	कार्यक्रम	I वर्ष	II वर्ष	III वर्ष	IV वर्ष	V वर्ष और उससे अधिक
1	एम.टेक/एम.फार्मा	06	08	NA	NA	-
2	पीएच.डी. (संस्थान फेलोशिप के अंतर्गत)	NA	NA	NA	03	03

विदेश या भारत में सम्मेलनों/कार्यशालाओं/सेमिनारों और संगोष्ठियों में भाग लेने वाले छात्रों/विद्वानों के नाम

क्र.सं.	छात्र का नाम	रोल नंबर	सम्मेलन/सेमिनार/संगोष्ठी/कार्यशाला	तिथि एवं स्थान	वित्तीय सहायता से
भारत					
1	अलीशा दास	20EB0002	Atal FDP -" AI- empowered Electric Vehicle in Smart Grid System: Challenges and Opportunities "	10/02/2025 to 15/02/2025 online	Self
2	अल्मास	20EB0003	Developments and Innovations in Solar Photovoltaic / Floating PV with its applications in Green Hydrogen Production and Electric Vehicle: Assisted with Hands on Training	16/05/2024 to 17/05/2024 At Energy Institute Bengaluru	Self
3	पवन दरभा	23EB1RE02	Conference on Sustainable Development of Energy, Water and Environment Systems 2025 (Online)	26/05/2025 to 30/05/ 2025 online	Self
विदेश					
1	अनितेश आनंद	21EB0002	EMRS (European Materials Research Society) Spring 2025	26/05/2025-30/05/2025 France	ANRF

संकाय और उनकी गतिविधियाँ

संकाय और उनकी विशेषज्ञता के क्षेत्र:

क्रम संख्या	नाम, योग्यता, कर्मचारी संख्या	पीएचडी डिग्री प्रदान करने की तिथि	विभाग में कार्यभार ग्रहण करने की तिथि	विशेषज्ञता के प्रमुख क्षेत्र (अधिकतम 3)
सहायक प्रोफेसर				
1	डॉ. अर्जुन देव, पीएच.डी.	3rd November, 2018	21st September 2018	1)Photovoltaic/Thermal Systems 2) Micro-grid/Smart Grid 3) Electric and Hybrid Vehicle
2	डॉ. रूपा मंजुनाथ, पीएच.डी.	24th June, 2014	11th October 2018	1) Instrumentation & Control 2) Wearable Devices 3) Automotive Safety
3	डॉ हकीम नियास. यू.एस., पीएच.डी.	15th September, 2017	15th October 2018	1) Thermal Energy Storage 2) Thermal Management of

				Batteries and Buildings 3) Solar Thermal
4	डॉ. देबासिस डे, पीएच.डी.	19th January, 2012	1st November 2018	1) Fabrication of solar cells 2) Photo/Electrocatalyst for water electrolysis 3) Energy materials
5	डॉ. शिवशंकरी एस, पीएच.डी.	31st July, 2016	5th December 2018	1) Solar photovoltaic /Thermal 2) Smart grid /Micro grid 3) Electric and Hybrid Vehicles
6	डॉ. चंद्रकांत, पीएच.डी.	26th August, 2021	7th November 2022	1) Statistical Inference 2) Reliability Analysis 3) Censored lifetime analysis
7	डॉ.भागीरथ साहू, पीएच.डी.	4th December, 2018	21st June 2023	Microwave Engineering
8	डॉ.पल्लबी सैकिया, पीएच.डी.	10th August 2020	28th July 2022 at RGIPT 1st September 2023 at EIB	1) Artificial Intelligence 2) Machine Learning 3) Multi sensor data analytics

तकनीकी और गैर-शिक्षण कर्मचारी

क्रम संख्या	नाम, योग्यता	पदनाम, कर्मचारी संख्या	विभाग में नियुक्ति की तिथि
1	महाबलेश्वर एस शेट्टी	अधीक्षक-ग्रेड I	01-11-2018
2	रघु डी जे	सहायक-ग्रेड I	01-03-2018
3	श्री कमल सिंह	अधीक्षक-ग्रेड I	13-04-2023
4	श्री अश्विनी कुमार चौधरी	सहायक सिस्टम ग्रेड III	31-07-2023
5	दयानंद शेट्टी	कार्यालय परिचारक	01-10-2021
6	श्री मधुसूदन एच.वी	सहायक अभियंता सिविल	14-11-2024
7	श्री मणिकांत एस आर	सहायक बालक छात्रावास	15-04-2025
8	श्री वामसी कृष्ण दशोरे	तकनीशियन	16-04-2025
9	श्री संजय कुमार एन एम	सहायक (पुस्तकालय एवं सूचना)	26-04-2025
10	श्रीमती सोनिया वर्मा	सहायक बालिका छात्रावास	13-11-2024
11	श्री सुदर्शन कुमार	इलेक्ट्रीशियन	01-11-2024

संकाय सदस्यों द्वारा आयोजित अल्पकालिक पाठ्यक्रम/कार्यशालाएं/सेमिनार/संगोष्ठी/सम्मेलन

क्रम संख्या	समन्वयक	शीर्षक	अवधि
1	डॉ. शिवशंकरी सुंदरम	A 2 day workshop on Developments and innovations in Solar Photovoltaic /Floating with applications in green hydrogen production and electric vehicle: assisted with hands on training	16th -17th May 2024

शैक्षणिक संस्थानों और सार्वजनिक क्षेत्र के उपक्रमों में संकाय सदस्यों द्वारा भाग लिए जाने वाले अल्पकालिक पाठ्यक्रम/कार्यशालाएं/सेमिनार/संगोष्ठी/सम्मेलन/प्रशिक्षण कार्यक्रम

क्र.सं.	संकाय सदस्य का नाम	शीर्षक	अवधि और स्थान
सेमिनार/संगोष्ठी/सम्मेलन			
	डॉ. रूपा मंजूनाथ	2024 IEEE 29th Asia Pacific Conference on Communications (APCC)	05-07 November 2024, Bali, Indonesia
	डॉ. रूपा मंजूनाथ	2024 17th International Conference on Sensing Technology (ICST)	*9-11 December 2024, Sydney, Australia*
	डॉ हकीम नियास. यू. एस.	Combustors for Future Energy and Propulsion Needs (ASME IGTI Webinar)	03/06/2024 (Online)
	डॉ हकीम नियास .यू. एस.	GIAN Course on “Advances in Solar Collector Technologies”	03/03/2025 – 07/03/2025 Indian Institute of Technology Guwahati
	डॉ शिवशंकरी सुंदरम	IEEE 53rd Photovoltaic Specialists Conference (PVSC)	June 8-13, 2025 Canada (online)
2.	डॉ. देबासिस डी	2nd International conference on Renewable Energy Technologies and Bio Sustainability	22-24 March 2025 (online)
3.	डॉ. देबासिस डी	Global conference for Decarbonization of Energy and Materials	26-30 November 2024, Singapore
4.	डॉ. भागीरथ साहू	International Conference on Electrical Electronics and Computing Technologies (ICEECT-2024)	Sharda School of Engineering and Technology, Sharda University, Greater Noida, India 29-08-2024 to 31-08-2024
5.	डॉ. भागीरथ साहू	IEEE Microwave, Antennas and Propagation Conference (MAPCON-2024)	Hyderabad, India 09-12-2024 to 13-12-2024

6.	डॉ. भागीरथ साहू	One week Workshop on "Wireless Power Transfer: Concepts to Applications"	Department of Electronics and Communication Engineering, Ramaiah Institute of Technology from 30th June to 4th July 2025
7.	डॉ. चंद्रकांत	Data Science and Statistical Analysis through R and Python Software 2.0	May 29-June 2, 2024, SVNIT Surat
बैठक			
1	डॉ. रूपा मंजूनाथ	Research Collaboration	21 st July 2024, DRDO (DIA-RCOE) IISc, Bengaluru
2	डॉ. रूपा मंजूनाथ	Research Collaboration	08 th Dec 2024, Prof. Hardik Jeetendra Pandya Laboratory, IISc, Bengaluru
3	डॉ हकीम नियास .यू. एस.	ASME Karnataka Professional Section Annual Meet	27/03/2025 Reva University, Bengaluru
4	डॉ. देबासिस डी	HYD-GEN green hydrogen generation facility	9-10 April 2025, Mangalore India
5	डॉ. भागीरथ साहू	Exploring potential avenues for research collaboration, in the domain of microwave component design for airborne radar systems	Centre for Airborne Systems (CABS), Defence Research and Development Organisation (DRDO) Bangalore 02-06-2025 to 03-06-2025
6	डॉ. भागीरथ साहू	To explore the research opportunities in antenna technology	REDANT Technologies KIADB Industrial Area Bangalore - 562149 24/06/2025

अन्य संस्थानों के संकाय सदस्यों द्वारा दिए गए विशेष व्याख्यान

क्र.सं.	संकाय सदस्य का नाम	व्याख्यान का विषय	संस्थान	तिथि
1	डॉ. रूपा मंजूनाथ	Session Chair	2024 IEEE 29th Asia Pacific Conference on Communications (APCC)	06 November 2024
2	डॉ. रूपा मंजूनाथ	Session Chair	2024 17th International Conference on Sensing Technology (ICST)	10 December 2024

3	डॉ हकीम नियास. यू. एस.	AI-Driven Electrolyzer Optimization for Scalable Green Hydrogen Production	GH Raisoni College of Engineering and Management, Pune	May 8th 2025
4	डॉ. चंद्रकांत	Data Science and Statistical Analysis through R	SVNIT Surat	May 29 to June 2, 2024
5	डॉ. भागीरथ साहू	Session Chair	ICEECT-2024 organised by Sharda School of Engineering and Technology, Sharda University, Greater Noida, India	August 29th to 31st 2024

संकाय सदस्यों द्वारा विदेश यात्राएं

क्र.सं.	संकाय सदस्य का नाम	दौरा किया गया	देश भारत छोड़ने की तिथि	भारत लौटने की तिथि	यात्रा का उद्देश्य	वित्त पोषण कहां से
1	डॉ. रूपा मंजूनाथ	Bali, Indonesia	04-11-2024	08-11-2024	2024 IEEE 29th Asia Pacific Conference on Communications (APCC)	RGIPT

शैक्षणिक और व्यावसायिक समाजों की फैलोशिप

क्र.सं.	संकाय सदस्य का नाम	फेलोशिप का विवरण
1	डॉ. रूपा मंजूनाथ	1. Member at Instrument Society of India 2. IEEE Member 3. SAE India member
2	डॉ हकीम नियास. यू. एस.	1. Solar Energy Society of India, Life Member, Membership ID: 2412 2. Indian Society for Technical Education, Life Member, Membership ID: LM 138067 3. Indian Society for Heat and Mass Transfer, Life Member, Membership ID: 1162 4. Indian Society of Heating, Refrigerating and Air-conditioning Engineers, Membership ID: 22259 5. International Solar Energy Society, Member 6. American Society of Mechanical Engineers, Membership ID: 101985019 7. Institute of Electrical and Electronics Engineers, Member, Membership ID: 94231657

3	डॉ शिवशंकरी सुंदरम	1. Life member Solar Energy Society of India Member ID:3832 2. International Solar Energy Society, Member
4	डॉ. भागीरथ साहू	1. Life Senior Member (No. 3037), Wireless Antenna & Microwave Symposium (WAMS) Society. 2. Life Member (LM 140560), Indian Society for Technical Education (ISTE) India 3. Member (No. 92751096), Institute of Electrical and Electronics Engineers (IEEE) U.S.A. 4. Member (M-1808650), The Institution of Engineers (India) 5. Member (M-504737), The Institution of Electronics & Telecommunication Engineers (IETE) 6. Member (M- 385267), International Association of Engineers (IAENG)

लिखित/सह-लिखित पुस्तकें, मोनोग्राफ

क्रम संख्या	लेखक/सह-लेखक का नाम	शीर्षक	प्रकाशक
1	प्रजना के बी, रूपा मंजूनाथ, सुरक्षा रमेश	Transportation Safety for Smart Cities (2024)	AI and Data Engineering for Smart Cities, CRC Press, Taylor and Francis Group
2	डी. मैती, देबासिस डे, जी.जी. खान	Black Phosphorus Solution-Phase Preparation and Applications in Energy Conversion in Layered Nanomaterials for Solution-Processed Optoelectronics	CRC Press https://doi.org/10.1201/9781003509509
3	पिल्लई, कालिदास परमेश्वरन, एम मैथ्यू, एच नियास और एस सुंदरम	A Comprehensive Analysis of Fuel Cell-Powered Electric Vehicles in India Through the PESTLE Framework.	IGI Global, June 2024
4	मैथ्यू, एम., सुंदरम, एस., और नियास, एच	Evaluation of the Political, Economic, Social, Technical, Legal, and Environmental Perspectives of Second Life Electric Vehicle Batteries in India.	IGI Global, June 2024
5	शिवशंकरी सुंदरम, अलमास और पवन दर्भा	A comprehensive review on digital initiatives fostering improvements in Solar PV system	Wiley Scrivener, May 2025

पत्रिकाओं के संपादकीय बोर्ड

क्र.सं.	संकाय सदस्य का नाम	पद (संपादक/सदस्य)	जर्नल का नाम
1	डॉ शिवशंकरी सुंदरम	Editorial Board Member	Journal of Next Generation Technology 2583-021X

डिज़ाइन और विकास गतिविधियाँ

नई सुविधाएँ जोड़ी गईं

क्र.सं.	विवरण (बुनियादी ढांचा, उपकरण, आदि)	मात्रा	मूल्य (लाखों रुपये में)
	उपकरण		
1	Programmable DC Power Supply	05	2.83 Lakhs
2	Function Generator	05	2.93 Lakhs
3	Digital Storage Oscilloscope [DSO]	12	25.56 Lakhs
4	DC Electronic Load	01	6.96 Lakhs
5	Evaluation Board	02	0.22 Lakhs
6	MS Rollers	01	0.28 Lakhs
7	Hydraulic Power Pack	01	0.40 Lakhs
8	Hydraulic Rollers	01	0.11 Lakhs
9	3Ghz Real Time Spectrum Analyzer with Tracking	01	4.15 Lakhs
10	Design Support / Mechanical Components	01	2.52 Lakhs
	बुनियादी ढांचे पर आधारित सामग्री (मेस और जिम के लिए)		
1	Mess Based Items	21	9.94 Lakhs
2	Gym based Items	20	4.96 Lakhs
3	Network Switches, Projector, Wall mount screen, Podium (Computer Peripherals)	19	5.82 Lakhs
4	Aqua guard (water cooler)	05	2.89 Lakhs
5	Voltas Water Cooler	05	2.09 Lakhs
6	5 KVA/120 VDC UPS	04	4.99 Lakhs
7	D Link 48 Port Switch	10	4.34 Lakhs
8	Network Accessories	05	0.53 Lakhs
9	TT TABLE, Carrom Board, Volley / Badminton Pole, Foot ball Brown	11	2.42 Lakhs
10	Wireless access point	12	3.84 Lakhs
11	Wifi camera with SD card	10	0.35 Lakhs
12	Mess Furniture	101	5.53 Lakhs
13	Almirah (Boys hostel)	52	7.59Lakhs
14	Furniture & fixture	1194	105.55 Lakhs

15	RO+UV Plant 500 Lph	1	3.22 Lakhs
16	Supply of L shaped holder curtain cloth hanger etc under head of fixture	795	2.68 Lakhs

समझौता ज्ञापनों के तहत अन्य विश्वविद्यालयों के साथ संकाय सदस्यों की भागीदारी

शोध प्रकाशन

क्र. सं.		सं.
1	रेफरीड अंतर्राष्ट्रीय पत्रिकाओं में प्रकाशित शोधपत्रों की कुल संख्या	22
2	अंतर्राष्ट्रीय सम्मेलनों में प्रस्तुत शोधपत्रों की कुल संख्या	04

रेफरीड अंतर्राष्ट्रीय पत्रिकाएँ

1. Das, P. R. Muduli and R. Manjunatha, QCM-Based Electronic Nose for Near-Real-Time BTEX Detection IEEE Transactions on Instrumentation and Measurement 74, (2025),1-8 https://doi.10.1109/TIM.2025.3578708.
2. Das, R. Manjunatha, K N Kumar, D De, R Bandyopadhyay. Fabrication of surface functionalized QCM sensor for BTX detection at ambient conditions. Talanta 283(2025). https://doi.org/10.1016/j.talanta.2024.127081
3. A Das, Giri, B.S. and R. Manjunatha. Systematic review on benzene, toluene, ethylbenzene, and xylene (BTEX) emissions; health impact assessment; and detection techniques in oil and natural gas operations. Environ Science & Pollution Research 22 (2025), 1–22 https://doi.org/10.1007/s11356-024-35698-1.
4. M.N.S. Jagirdar, G. Priyadarshi, B.K. Naik, H. Niyas. Implementation of adaptive neuro-fuzzy inference system in design and process optimization of latent heat storage system. Journal of Energy Storage 89 (2024) 111810. https://doi.org/10.1016/j.est.2024.111810.
5. H. Togun, H.S. Sultan Aljibori, A.M. Abed, N. Biswas, M.T. Alshamkhani, H. Niyas, H.I. Mohammed, F.L. Rashid, J.M. dhabab, D. Paul. A review on recent advances on improving fuel economy and performance of a fuel cell hybrid electric vehicle. International Journal of Hydrogen Energy 89 (2024) 22–47. https://doi.org/10.1016/j.ijhydene.2024.09.298.
6. M.A.H. Mithu, T.A. Tahseen, A.M. Abdulateef, H. Niyas. Fins-nanoparticle combination for phase change material enhancement in a triplex tube heat exchanger: A numerical approach to thermal sustainability. International Communications in Heat and Mass Transfer 159 (2024) 108199. https://doi.org/10.1016/j.icheatmasstransfer.2024.108199.
7. M.N.S. Jagirdar, S.S. Bhogilla, A. Mawire, H. Niyas. Recent Advancements in CSP: Evaluating High-Temperature Heat Transfer Fluids, Corrosion Prevention, and Alloy Selection for Enhanced Energy Density. Solar Compass 14 (2025) 100118. https://doi.org/10.1016/j.solcom.2025.100118.
8. K. Shubham, M. K. Ganesha, H. Hakkeem, A. M. Chandran, A. S. Mary, A. Anand, Debasis De, D. Sarkar, G. G. Khan, and A. K. Singh, High-performance silicon-based n–i–p heterojunction photoanode

for efficient photoelectrochemical water splitting: fabrication, optimization, and large-scale application, Journal of Material Chemistry A 13 (2025) 10844 https://doi.org/10.1039/D5TA01070E.

9. Anand, A Raj, D. Mondal, D. Maity, M K Ganesh, A K Singh and Debasis De and G G Khan, Effective Surface Engineering for Defect Passivation and Reduction of Water Oxidation Overpotential in Benchmark Two-Dimensional α-$SnWO_4$ Nanoplate Photoanodes, Advanced Functional Materials 35 (2025) 2417398, https://doi.org/10.1002/adfm.202417398.
10. V. Leela Devi, P. Kuchhal, Debasis De, A. Sharma, N. Kumar Shukla and M. Aggarwal, Machine Learning-Driven Optimization of Transport Layers in $MAPbI_3$ Perovskite Solar Cells for Enhanced Performance, *IEEE Access*, 12 (2024) 179546, DOI: 10.1109/ACCESS.2024.3492378.
11. D. Sadhu, D. Dattatreya, A. Deo, K. Tarafder, and Debasis De Performance prediction and analysis of perovskite solar cells using machine learning, *Journal of Alloys and compounds Communications*, 3, (2024) 100022, https://doi.org/10.1016/j.jacomc.2024.100022.
12. V. Leela Devi, Debasis De, P. Kuchhal, and R. K. Pachauri Photovoltaic performance of TiO_2 and ZnO nanostructures in anthocyanin dye-sensitized solar cells, *Clean Energy*, 8 (2024) 144, https://doi.org/10.1093/ce/zkae059
13. Almas, S Sundaram and U.D. Dwivedi Predictive analysis of power degradation rate in solar PV systems emphasizing hot spots and visual effects-based failure modes, Renewable Energy 228 (2024), https://doi.org/10.1016/j.renene.2024.120684.
14. A Rathore, Almas and S Sundaram Energy, exergy and performance analysis of a 380 kWp roof-top PV plant assisted with data-driven models for energy generation, Journal of Thermal Engineering, 10 (2024) 1164-1183, 10.14744/thermal.0000859
15. Pillai, K. and Sundaram, S. Optimization and Feasibility Analysis of Hybrid Distributed Generator Based System with a Comparison of Battery and Hydrogen Energy Storage for Residential Electrification. Energy Storage, 6, (2024) https://doi.org/10.1002/est2.70075
16. Verma, R. P., Gupta, A., & Sahu, B. A Miniaturized High-Gain Circular Coaxial-Fed Radiator Filtering Antenna with Configurable Radiation Nulls for Modern 5G Applications. International Journal of Antennas and Propagation, 1, (2024), 5424401. https://doi.org/10.1155/2024/5424401
17. K. Singh, Y.M. Tripathi, C. Lodhi, and L. Wang. Order Restricted Inference for a Generalized Family of Inverted Exponentiated Distributions with BPTC Scheme. Sankhya B, (2025). https://doi.org/10.1007/s13571-025-00377-9
18. Kumari, Y.M. Tripathi, C. Lodhi, L. Wang. Pivotal based reliability inference for Burr-XII distribution under block progressive type-II censoring. Communications in Statistics – Simulation and Computation, (2025) 1–22, https://doi.org/10.1080/03610918.2025.2483437
19. Mondal, A. K. Gangopadhyay, K. Maiti and C. Lodhi. Reliability Inference for Power Rayleigh Distribution under Block Progressive Censoring: A Pivotal Quantity based Approach. International Journal of Reliability, Quality and Safety Engineering, (2025). 32, 2450053, https://doi.org/10.1142/S0218539324500530

20. P. Chandra, C. Lodhi, Y. M. Tripathi, and A. Asgharzadeh. Inference and optimal plans for a new Pareto distribution under Type-1 hybrid censoring. International Journal of Reliability, Quality and Safety Engineering, (2025), 32, https://doi.org/10.1142/S0218539325500159.
21. K. Singh, Y.M. Tripathi, C. Lodhi, and L. Wang. Inference for Unit Inverse Weibull Distribution Under Block Progressive Type-II Censoring. Journal of Statistical Theory and Practice (2024) 18, https://doi.org/10.1007/s42519-024-00395-2
22. Lodhi, A.K. Gangopadhyay & P. Bhattacharya. Likelihood and pivotal-based reliability inference for inverse exponentiated Rayleigh distribution under block progressive censoring. Quality Technology & Quantitative Management (2024) 22, 779–804 https://doi.org/10.1080/16843703.2024.2400435

Proceedings of International Conferences

1. R. Manjunatha and K. Rajanna, Calibration of Polyvinylidene Fluoride Nasal Sensor to Measure Breathing Pressure," *2024 17th International Conference on Sensing Technology (ICST)*, Sydney, Australia, pp. 1-5, doi: 10.1109/ICST62759.2024.10992085.
2. R. Suraksha and R. Manjunatha, Design of a Communication Protocol for a Hoverboard Mobile APP: Mobility For Smart City, 2024 IEEE 29th Asia Pacific Conference on Communications (APCC), BALI, Indonesia, 2024, pp. 435-441, doi: 10.1109/APCC62576.2024.10767942.
3. Almas, Sundaram, S. (2024). Degradation Assessment Through Prediction Approaches for Solar PV System in South India. Advances in Clean Energy and Sustainability, Volume 1. ICAER 2023. Green Energy and Technology. Springer, Singapore. https://doi.org/10.1007/978-981-97-5415-1_40 40
5. Dwivedy, A.P., Sundaram, S. (2025). Optimised Grid Integration of Solar PV and Electric Vehicle (EV): A Dynamic State-Based Energy Management Strategy. Intelligent Communication, Control and Devices. ICICCD 2024. Lecture Notes in Networks and Systems, vol 1164. Springer, Singapore. https://doi.org/10.1007/978-981-97-8329-8_5

5 Articles with maximum no. of Citations in last 5 years

1. J. Li, Z.R. Abdulghani, M.N. Alghamdi, K. Sharma, H. Niyas, H. Moria, A. Arsalanloo. Effect of twisted fins on the melting performance of PCM in a latent heat thermal energy storage system in vertical and horizontal orientations: Energy and exergy analysis. Applied Thermal Engineering. 219 (2023) 119489. https://doi.org/10.1016/j.applthermaleng.2022.119489. (109 Citations)
2. T. Rehman, T. Ambreen, H. Niyas, P. Kanti, H.M. Ali, C.-W. Park. Experimental investigation on the performance of RT-44HC-nickel foam-based heat sinks for thermal management of electronic gadgets, International Journal of Heat and Mass Transfer. 188 (2022) 122591. https://doi.org/10.1016/j.ijheatmasstransfer.2022.122591. (100 Citations)
3. A.M. Abdulateef, M. Jaszczur, Q. Hassan, R. Anish, H. Niyas, K. Sopian, J. Abdulateef. Enhancing the melting of phase change material using a fins–nanoparticle combination in a triplex tube heat exchanger. Journal of Energy Storage 35 (2021) 102227. https://doi.org/10.1016/j.est.2020.102227. (85 Citations)

विभाग/केंद्र/केंद्र में भारतीय संकाय का दौरा

क्र.सं.	संकाय सदस्य का नाम	दौरे का उद्देश्य	तिथि और स्थान
1	डॉ. अभिषेक सैनी	For an invited guest lecture on Ultrasonic NDE	12 June 2025 Energy Institute Bengaluru
2	डॉ. आशुतोष कुमार	Invited guest lecture on Designing affordable functional smart devices	22 May 2025 Energy Institute Bengaluru

विभाग/केंद्र/केंद्र में विदेशी संकाय का दौरा

क्र.सं.	संकाय सदस्य का नाम	दौरे का उद्देश्य	तिथि और स्थान
1	डॉ. गौतम कुमार दलपति	Invited research lecture on Renewable Energy Solutions	8th April 2025

नवीकरणीय ऊर्जा



प्रयोगशाला:

IT Laboratory:



EV Power Train:



अध्याय 23

वर्ष 2024-25 का अंकेक्षित वित्तीय प्रतिवेदन

Accounts for the Year 2024-25

The Audited Accounts of RGIPT for the year 2024-25 are attached as **Annexure-I.** The highlights of the Accounts are as follows:

1. Corpus Fund/Capital Fund (Schedule 1 to Balance Sheet):

Jais

The Corpus Fund of Rs 333.60 crore (which includes Rs 250 crore contributed by the promoting Oil PSUs and surplus interest ploughed back) which stands invested in Bank FDs. The interest earnings from this fund are utilized for recurring expenses and surplus is reinvested on regular basis. It has been transferred to earmarked fund Schedule-3 during 2024-25.

Assam

The Corpus Fund of Rs. 250.20 crore (which includes Rs 147.03 crore contributed by participating Oil PSUs and surplus interest ploughed back) which stands invested in Bank FDs. The interest earning has been used for recurring expenses and surplus is reinvested on regular basis. It has been transferred to earmarked fund Schedule-3 during 2024-25.

At the year end the excess of income over expenditure to the extent of the surplus interest lying invested in FDs with banks/Non-tradable Government Securities has been ploughed back to Corpus Fund as follows:

Particulars	Jais (**Rs. in lakhs**)	Assam (**Rs. in lakhs**)
From Income & Expenditure account for 2024-25	Nil	Nil

Fund towards Capital Expenditure

The status of Capital Fund received as on 31.03.2025 from Government of India and Grant from OIDB/PSU is as follows:

A. Jais Campus:

- GOI Fund of Rs. 44896 lakh was received up to 31.03.2025. During the year 2024-25 Nil transferred from Reserve Fund.
- OIDB Grant received up to 31.03.2025 amounts to Rs. 16736 lakh.

B. Assam Centre:

The Capital Fund received from PSU and OIDB as on 31.03.2025 amounted to Rs. 21558 lakh.

C. Bengaluru Centre:

The Capital Fund received from GoI as on 31.03.2025 amounted to Rs. 11633 lakh.

2. Reserve and Surplus (Schedule 2 to Balance Sheet)

General Reserve

During the year, Rs. 2870.67. lakh has been credited to General Reserve by way of transfer of the excess of income over expenditure as on 31.03.2025

3. Earmarked Funds: (Schedule 3 to Balance Sheet)

Earmarked Fund of Rs. 58435 lakh as on 31.03.2025 represents the balance available in Scholarship Fund and corpus fund which is transferred to earmarked fund from 2024-25.

4. Deferred Credit Liability (Schedule 4 to Balance Sheet)

The amount of Rs. 405 lakh as on 31.03.2025 represents the balance amount of Research Project Grants received from various agencies like Department of Science and Technology (DST), SERB, DAE, etc. for future utilization.

5. Current Liabilities & Provisions (Schedule 5 to Balance Sheet)

1. Rs. 470.72 lakh as on 31.03.2025 represents liability for unpaid bills towards revenue expenses/ bills.
2. Rs. 134.50 lakh is liability towards outstanding Statutory Dues for March 31.3.2025 payable in April 2025.
3. Includes Rs. 442.57 lakh towards refundable EMD/ Security Deposit / Retention Money and Student Alumni /Welfare Fund.
4. Based on Actuarial Valuation the accumulated provision of Rs. 1636.70 Lakh has been made towards Retirement benefits for Gratuity and Leave Encashment in current year accounts.
5. A further provision of Rs. 41.80 Lakh has been made toward balance of deposit receivable from U.P.S.I.D.C.

6. Fixed Assets (Schedule 6 to Balance Sheet)

Capital items amounting to Rs 2093.70 lakh were added during the current year which includes Buildings, Plant and Machinery, Furniture, Building Management System, Electric Equipment and other assets. The Gross Block of Fixed Assets amounted to Rs. 58625.93 lakh including land and the Net Block of Fixed Assets amounted to Rs. 42099 Lakh after deduction of Rs.16526.89 Lakh on account of depreciation during the years.

7. Capital Work in Progress (Schedule 6 to Balance Sheet)

The Capital Work in Progress as on 31.03.2025 amounted to Rs. 26870.55 Lakh which represents capital expenses of all Centers.

8. Investments (Schedule 7 and 8 to Balance Sheet)

Investments from earmarked fund of Rs. 24 lakh represents scholarship grant received from

Chevron and Rs.56050.73 invested towards corpus fund. Rs.1330.27 invested with LIC towards Gratuity and Leave encashment fund of employees.

9. Current Assets & Loans and Advances (Schedule 9 to Balance Sheet)

The Bank Balance of Rs. 30458.29 lakh as on 31.03.2025 includes the following amount

a. Rs. 22250.85 Lakh towards Fixed Deposits with various Banks and 8207.44 in saving and current accounts.

b. Loans and advances include:

- Rs. 2291.15 lakh on account of accrued interest income on investment

10. Income (Schedule 10, 11 and 12)

Total Income of Rs 9587.85 lakh includes interest earning from Fixed Deposits of Rs. 5266.33 Lakh (including accrued interest of Rs. 2291.15 lakh) and Rs. 4096.57 Lakh towards Students' Fee and Application Fee.

11. Expenditure (Schedule 13, 14 and 15)

The major head wise expenses for the year are tabulated in Schedule 13, 14 and 15 along with previous year figures as per the summary given below:

Schedule No	Expenses	2023-24 (Rs. in lakhs)	2024-25 (Rs. in lakhs)
13	Academic	934.90	966.86
14	Establishment	4032.67	4387.33
15	Other Administrative	1290.48	1278.17
Total		**6258.05**	**6632.36**

12. Audit Report on Accounts

The Finance Committee and Board of Governors in the meetings held on 26.06.2025 (78TH BoG Meeting) has considered the Accounts for the year 2024.25 The Audit Report is issued by the Principal Director, Commercial Audit & Ex-Officio Member, Audit Board II, New Delhi. **A copy of the Audit Report No. DGS(Energy)/Rep/01-139/Acs-RGIPT/2025-26/504 dated 31.10.2025 is attached in Annexure-II.**

अनुलग्नक 1

वित्तीय वर्ष 2024-25
का लेखा

विद्यारत्नम् महद्धनम्

राजीव गांधी पेट्रोलियम प्रौद्योगिकी संस्थान

जायस, अमेठी, उत्तर प्रदेश

Rajiv Gandhi Institute of Petroleum Technology (RGIPT)

(An Institution of National Importance Established under an Act of Parliament)

Jais, Amethi, Uttar Pradesh, India

ACCOUNTS FOR THE FINANCIAL YEAR 2024-25

1. BALANCE BALANCE SHEET AS ON 31ST MARCH 2025.
2. INCOME / INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2025.
3. RECIEPT RECIEPT & PAYMENT ACCOUNTS FOR THE YEAR ENDED 31ST MARCH 2025.

Signed on. 26/06/2025

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
BALANCE SHEET AS AT 31ST MARCH' 2025

AMOUNT(₹)

CORPUS/ CAPITAL FUND AND LIABILITIES	SCHEDULE	CURRENT YEAR	PREVIOUS YEAR
CORPUS /CAPITAL FUND	1	7,82,52,95,416.46	7,85,60,63,974.06
RESERVES AND SURPLUS	2	1,34,81,66,877.99	1,13,09,35,256.94
EARMARKED / ENDOWMENT FUNDS	3	5,84,35,12,763.93	5,84,24,60,113.93
SECURED LOANS AND BORROWINGS			
UNSECURED LOANS AND BORROWINGS			
DEFERRED CREDIT LIABILITIES	4	4,05,74,375.74	3,77,63,422.94
CURRENT LIABLITITES AND PROVISIONS	5	96,50,50,021.39	90,06,17,229.04
TOTAL		16,02,25,99,455.51	15,76,78,39,996.91
ASSETS			
FIXED ASSETS	6	6,89,69,58,878.52	5,12,78,63,207.65
INVESTMENTS- FROM EARMARKED/ ENDOWMENT FUNDS	7	5,60,74,72,792.00	24,00,000.00
INVESTMENTS- OTHERS	8	13,30,27,029.09	8,36,53,229.00
CURRENT ASSETS, LOANS, ADVANCES ETC.	9	3,38,51,40,755.90	10,55,39,23,560.26
MISCELLANEOUS EXPENDITURE (TO THE EXTENT NOT WRITTEN OFF OR ADJUSTED)			-
TOTAL		16,02,25,99,455.51	15,76,78,39,996.91
SIGNIFICANT ACCOUNTING POLICIES	17	Enclosed	
CONTINGENT LIABILITIES AND NOTES ON ACCOUNTS	18	Enclosed	

ASSISTANT REGISTRAR (ACCOUNTS) **REGISTRAR** **DIRECTOR** **PRESIDENT (BOG)**

Signed on : 26/06/2025

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
INCOME AND EXPENDITURE FOR THE PERIOD/YEAR ENDED 31ST MARCH 2025

AMOUNT (₹)

INCOME	SCHEDULE	CURRENT YEAR	PREVIOUS YEAR
Income from Sales / Service		-	-
Grants / Subsidies		-	-
Fees / Subscriptions	10	**40,96,57,304.54**	34,01,50,768.00
Income from investments			
Income from Royalty, Publication			-
Interest Earned	11	**52,66,33,525.98**	43,84,23,116.85
Other Income	12	**2,24,94,787.17**	1,99,85,000.25
Deferred Revenue Income (Transferred From Capital Fund - Contingent Fund)		**21,69,04,038.40**	19,82,00,783.06
TOTAL - (A)		**1,17,56,89,656.09**	**99,67,59,668.16**
EXPENDITURE			
Academic Expenses	13	**9,66,86,002.80**	9,34,90,293.87
Establishment Expenses	14	**43,87,33,448.00**	40,32,67,026.00
Other Administrative Expenses	15	**12,78,17,458.45**	12,90,47,788.41
Expenditure on grants, subsidies etc.		-	-
Provision for doubtful debts		-	-
Deferred Revenue Expenses (Depreciation- corresponding to Schedule - 6)		**21,69,04,038.40**	19,82,00,783.06
TOTAL - (B)		**88,01,40,947.65**	**82,40,05,891.34**
Excess of income over expenditure for the year C = (A-B)		**29,55,48,708.44**	17,27,53,776.82
Add : Prior Period Adjustment (Net) (D)	16	**(84,81,591.79)**	**(14,90,74,759.71)**
Net excess of income over expenditure (C-D)		**28,70,67,116.65**	**2,36,79,017.11**
Transfer to (From) Corpus Fund Jais		-	-
Transfer to Corpus Fund Assam		-	-
Transfer to General Reserve		**28,70,67,116.65**	2,36,79,017.11
Surplus / (Deficit) carried to Corpus / Capital Fund		-	-
Significant Accounting Policies	17	**Enclosed**	
Contingent Liabilities and Notes on Accounts	18	**Enclosed**	

ASSISTANT REGISTRAR (ACCOUNTS) **REGISTRAR** **DIRECTOR** **PRESIDENT (BOG)**

Signed on: 26/06/2025

RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
RECEIPT AND PAYMENT ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2025

AMOUNT (₹)

PREVIOUS YEAR	RECEIPTS	AMOUNT (Rs.)	AMOUNT (Rs.)	PREVIOUS YEAR	PAYMENTS	AMOUNT (Rs.)	AMOUNT (Rs.)
	OPENING BALANCES				**EXPENSES**		
	WITH SCHEDULED BANKS			8,56,99,436.16	Academic Expenses	9,43,25,920.80	
	IN SAVING ACCOUNTS			35,28,58,647.75	Establishment Expenses	39,09,58,191.00	
46,84,004.11	ICICI Bank - 000701260248	65,00,405.11		10,27,62,832.16	Administrative Expenses	12,27,90,814.25	
	Canara Bank-110068915050 (PFMS)	98,496.00		9,143.17	Prior Period Expenditure	26,43,193.42	**61,07,18,119.47**
(1,00,58,353.00)	Allahabad Bank- 50192401170	-		**52,94,86,727.24**			
-	Bank of Maharashtra-60431776441 (PFMS)	12,93,194.00			**REFUNDS / OTHER PAYMENTS**		
	HDFC Bank A/c No.-50100508749864	5,37,77,422.94		4,22,37,871.00	Utilization Of Research/Other Grants	2,92,39,491.3	
15,68,86,718.78	Allahabad Bank- 50441574197	7,47,44,538.50		1,16,08,315.00	Refunded to Students	1,11,12,030.00	
1,54,95,000.00	Bank of Baroda-37350100004760	28,40,000.00		-	Institutional Development Fund (Fund utilised)	44,21,437.00	
1,13,251.00	ICICI Bank- 000701258840	1,13,251.00		1,85,957.00	SERB Project Fund returned	-	
1,22,025.00	Indian Bank- EIB - 7290143660	1,22,025.00		12,82,64,488.00	Statutory Liab. Paid	-	
2,32,003.94	HDFC Bank- 00031110004499			-	Research Grant Refunded		
	Investment in sweep with SBI-82316 Bengaluru	1,22,88,000.00		75,49,344.00	Other Payments	47,21,515.00	
72,30,943.00	State Bank of India-31936731040	42,45,780.00		73,839.00	Imprest	49,741.00	
	Investment in sweep with SBI-82860 Jais	11,43,60,237.68		**18,99,19,814.00**			**4,95,44,214.30**
4,50,51,356.14	Bank of Baroda-59480100000001	2,66,76,171.67					
10,27,35,611.03	Bank of Baroda-59480100000382	5,67,53,757.34			**Payments**		
	SBI - 67164 (CIF)	32,664.00		2,25,06,520.73	Payment to Sundry Creditors	3,76,33,750.74	
81,113.80	Corporation Bank-520101255658060	18,765.54		2,36,93,705.03	Payment to Creditors For Others	3,35,85,122.00	
8,64,743.00	Indian Overseas Bank-125501000020082	8,88,770.00		17,65,00,000.00	Advance paid to CPWD for capital works		
	Union Bank Of India - 145522010001647 (AEI)	2,18,19,248.00		2,37,86,15,429.00	Payment for FDR	-	
21,543.00	Indian Bank-50524153041	21,729.85		-	Payment to NCCL		

Contd ...

ASSISTANT REGISTRAR (ACCOUNTS) **REGISTRAR** **DIRECTOR** **PRESIDENT (BoG)**

Signed on: 26/06/2025

... Contd

RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
RECEIPT AND PAYMENT ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2025

AMOUNT (₹)

PREVIOUS YEAR	RECEIPTS	AMOUNT (Rs.)	AMOUNT (Rs.)	PREVIOUS YEAR	PAYMENTS	AMOUNT (Rs.)	AMOUNT (Rs.)
5,74,68,745.53	State Bank of India-3478552906-2	5,57,822.00		25,07,32,633.00	Payment to Nirmithi Kendra - Bengaluru		**7,12,18,872.74**
15,520.90	RGIPT Chevron Scholarship Accounts-001914	1,61,222.90		**2,85,20,48,287.76**			
95,62,489.22	RGIPT Fee-1913	9,79,66,152.02			**ADVANCES**		
21,73,98,456.68	SBI-082316(Banglore)	(19,22,642.82)					
12,06,94,572.34	SBI-082860(Capital Account Jais)	(31,39,289.00)		**1,46,989.00**	Loans & Advances - Others	1,44,125.00	
34,07,64,175.84	SBI- 083148 (Capital Accounts Assam)	32,88,333.18					**1,44,125.00**
14,038.36	BOB-004760 (Raibareli)	14,489.27					
6,44,70,623.40	AEI Project Grant Accounts-001915	26,741.40			**FIXED ASSETS**		
35,08,619.00	Axis Bank-583120	27,50,449.00		2,14,81,381.82	CWIP Jais	30,31,87,955.00	
1,49,14,815.21	Bank of Baroda AEI Revenue Accounts-001916	16,46,699.84		-	CWIP Assam	36,50,00,000.00	
89.60	Canara Bank - 110076198882	2,495.60		23,99,369.00	CWIP Bangalore	14,72,36,997.00	
	Union Bank Of India - 145522010001648 (Jais)	15,32,116.00					
6,040.00	Cheque in hand			-	CWIP - Advances		
2,77,15,431.97	SBI RGIPT (Mess Fee) A/c-41137316469	2,67,01,620.95		8,90,03,069.26	Fixed Assets- Jais	9,88,27,350.27	
1,17,99,93,577.85		**50,61,80,666.97**		1,10,99,418.00	Fixed Assets- Assam	67,44,539.00	
				1,93,36,668.00	Fixed Assets- Bengaluru	1,39,84,173.00	**93,49,81,014.27**
	WITH SCHEDULED BANKS			**14,33,19,906.08**			
8,35,93,01,464.00	**IN DEPOSIT ACCOUNTS**	8,61,69,94,563.00					
24,00,000.00	FDR with HDFC	24,00,000.00	**9,12,55,75,229.97**				
8,36,17,01,464.00							
	GRANTS RECEIVED				**REFUNDABLE PAYMENTS**		
-	**GRANTS RECEIVED**			10,000.00	Security - Deposit Paid (Others)	-	
-	Institute Development Fund	2,25,000.00					
3,21,35,064.54	Research Grants/Other Grant	2,16,55,304.50		8,86,659.02	Retention Money Refunded	22,72,509.60	**22,72,509.60**
4,62,000.00	Scholarship Grant from Ministry of Tribal Affairs	11,96,200.00		**8,96,659.02**			
60,000.00	Scholarship received from Swami Dayanand Education Foundation	60,000.00					

Contd ...

ASSISTANT REGISTRAR (ACCOUNTS) | REGISTRAR | DIRECTOR | PRESIDENT (BoG)

Signed on: 26/06/2025

... Contd

RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
RECEIPT AND PAYMENT ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2025

AMOUNT (₹)

PREVIOUS YEAR	RECEIPTS	AMOUNT (Rs.)	AMOUNT (Rs.)	PREVIOUS YEAR	PAYMENTS	AMOUNT (Rs.)	AMOUNT (Rs.)
5,42,937.00	Capital Fund From Oil Companies Received from Bihar State Education	1,80,809.00	2,33,17,313.50		**CLOSING BALANCES WITH SCHEDULED BANKS IN SAVING ACCOUNTS**		
3,32,00,001.54				65,00,405.11	ICICI Bank - 000701260248	19,87,489.11	
-	**INTEREST EARNED** Interest on Bank Guarantee Invoked	-		-	Allahabad Bank - 50192401170	-	
21,37,194.00	Interest On - Capital Fund JAIS	1,21,778.00		-	HDFC Bank - 00031110004499	-	
82,43,990.00	Intt.On -Capital Fund (Assam)	5,26,40,222.92		7,47,44,538.50	Allahabad Bank - 50441574197	7,72,71,882.01	
33,05,387.00	Intt. on -Capital Fund (EIB)	4,05,57,803.89		28,40,000.00	Bank OF Baroda - 37350100004760	1,85,65,000.00	
81,12,483.85	Interest received on Saving Bank Accounts	76,47,299.00		1,13,251.00	ICICI Bank - 000701258840	1,13,251.00	
23,05,197.00	Int received on Research Grants	21,16,418.00		42,45,780.00	State Bank of India - 31936731040	1,61,93,092.00	
1,52,638.00	Intt.On FDRs -Earmarked Endowment Fund	1,72,841.00		2,66,76,171.67	Bank of Baroda - 59480100000001	99,65,333.96	
35,54,80,509.00	Interest on FDRs - Scheduled Banks	48,29,62,784.78		5,67,53,757.34	Bank of Baroda - 59480100000382	3,91,66,413.85	
1,50,86,433.00	Interest received from bank	2,64,86,018.90	**61,27,05,166.49**	18,765.54	Corporation Bank - 520101255658060	17,112.05	
39,48,23,831.85				8,88,770.00	Indian Overseas Bank-125501000020082	9,13,484.80	
	REFUNDABLE/ TRANSFERABLE RECEIPTS			21,729.85	Indian Bank-50524153041	21,729.85	
-	P.Y. Accrued Income Received	-		5,57,822.00	State Bank of India-3478552906-2	2,47,715.60	
52,08,000.00	Security Deposit From Students	54,19,000.00		1,61,222.90	Bank of Baroda Chevron Scholarship Account-001914	1,41,897.99	
5,81,000.00	Student Welfare Fund	6,03,000.00		9,79,66,152.02	Bank of Baroda Fee-1913	7,29,50,829.60	
1,27,96,300.00	Student Fee Refundable			(19,22,642.82)	SBI, Capital Account, EIB-082316 (Bengluru)	(11,87,505.00)	

Contd ...

ASSISTANT REGISTRAR (ACCOUNTS) | REGISTRAR | DIRECTOR | PRESIDENT (BoG)

Signed on: 26/06/2025

... Contd

RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
RECEIPT AND PAYMENT ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2025

AMOUNT (₹)

PREVIOUS YEAR	RECEIPTS	AMOUNT (Rs.)	AMOUNT (Rs.)	PREVIOUS YEAR	PAYMENTS	AMOUNT (Rs.)	AMOUNT (Rs.)
5,83,000.00	Allumni Membership Fund	6,03,000.00		(31,39,289.00)	SBI, Capital Account, Jais - 082860	(40,36,289.38)	
-	Staff Advance			32,88,333.18	SBI, Capital Account, AEI - 083148	68,74,808.18	
-	Retention money received			14,489.27	BOB-004760 (Raibareli)	14,15,311.44	
	Caution Money			26,741.40	AEI Project Grant Account-001915	7,128.73	
19,46,916.00	Scholarship From Director Technical Education	-		27,50,449.00	Axis Bank-583120	45,792.00	
	Other			2,67,01,620.95	SBI RGIPT (Mess Fee) A/c-41137316469	3,89,46,891.19	
22,56,645.00	Earnest Money Received	34,55,932.00	**1,00,80,932.00**	1,22,025.00	Indian Bank - EIB - 7290143660	1,22,025.00	
2,33,71,861.00				2,495.60	Canara Bank - 110076198882	2,580.60	
				-	Cheque in hand		
				16,46,699.84	Bank of Baroda AEI Revenue Accounts-001916	3,06,89,263.91	
				12,93,194.00	Bank of Maharashtra-60431776441 (PFMS)	-	
				98,496.00	Canara Bank-110068915050 (PFMS)	-	
				5,37,77,422.94	HDFC Bank A/c No.-50100508749864	76,33,609.94	
				1,22,88,000.00	Investment in sweep with SBI-82316 Bengaluru	6,02,87,579.18	
				11,43,60,237.68	Investment in sweep with SBI-82860 Jais	4,40,41,514.96	
				32,664.00	SBI - 67164 (CIF)	5,52,907.00	
				2,18,19,248.00	Union Bank Of India - 145522010001647 (AEI)	3,07,23,548.41	
			-	15,32,116.00	Union Bank Of India - 145522010001648 (Jais)	2,32,85,904.90	

Contd ...

ASSISTANT REGISTRAR (ACCOUNTS) | REGISTRAR | DIRECTOR | PRESIDENT (BoG)

Signed on: 26/06/2025

... Contd

RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS

RECEIPT AND PAYMENT ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2025

AMOUNT (₹)

PREVIOUS YEAR	RECEIPTS	AMOUNT (Rs.)	AMOUNT (Rs.)	PREVIOUS YEAR	PAYMENTS	AMOUNT (Rs.)	AMOUNT (Rs.)
	REFUNDS			-	Hdfc-50100722762351 Assam Capital	21,36,805.00	
89,95,611.00	Income Tax Refund	-		-	Hdfc Fees A/C-50100722765203	94,37,906.00	
	Security deposit refund from APDCL	-		-	Indian Bank- 7753028076-Bangalore	2,68,865.00	
89,95,611.00				-	Investment In Sweep A/C- 9062	7,23,73,000.00	
	INCOMES			-	Investment In Sweep Pnb-000031	10,61,00,000.00	
32,12,22,714.44	Fees Received	36,47,53,882.00		-	Punjab National Bank-0917001200000031	14,62,37,053.00	
7,10,85,840.00	Advance fee received from students	12,64,66,583.00		-	Punjab & Sindh Bank-09581000014362	72,30,611.00	
1,15,94,918.00	Prior Period Income	-		-			-
8,80,176.07	Other Income	7,14,031.77	49,19,34,496.77	**50,61,80,666.97**			**82,07,44,542.88**
40,47,83,648.51							
	Institutional Development Fund (Other Income)						
	Institutional Development Fund (Transfer from HAL Korwa)				**WITH SCHEDULED BANKS**		
				8,61,69,94,563.00	**IN DEPOSIT ACCOUNTS**	7,83,01,57,937.00	
	Other Received			24,00,000.00	FDR with HDFC	24,00,000.00	**7,83,25,57,937.00**
3,56,16,735.00	Received from Sundry Debtors	3,91,21,486.37		**8,61,93,94,563.00**			
3,73,154.80	Security Deposit Received	2,45,677.00					
5,80,583.00	Interest on IT Refund	-					
2,37,86,15,429.00	FDR Matured	-					
20,91,686.00	Recovery of Staff Advance	26,58,184.00					
1,06,07,507.00	Recovery of Other Loans & Advances	1,45,58,534.52					
	Advance settled by India Habitat Centre						
	IDF Advance Settled						
27,000.00	Tender Fees	60,000.00					
10,503.00	Electronic Cash Ledger GST						
	Sale of old bus						
	Returned from Vendor						
	Gratuity & Leave Enacashment						
-	Contribution received from NIFTEM						-

Contd ...

ASSISTANT REGISTRAR (ACCOUNTS) | REGISTRAR | DIRECTOR | PRESIDENT (BoG)

Signed on: 26/06/2025

... Contd

RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS

RECEIPT AND PAYMENT ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2025

AMOUNT (₹)

PREVIOUS YEAR	RECEIPTS	AMOUNT (Rs.)	AMOUNT (Rs.)	PREVIOUS YEAR	PAYMENTS	AMOUNT (Rs.)	AMOUNT (Rs.)
47,65,849.00	Gratuity & Leave Enacashment Contribution received from LIC	1,20,534.00					
	Leave Salary Contribution received from FSSAI						
	Service Benefits received from IIPE						
54,000.00	Receovery of License Fees from PhD students	1,53,867.00					
52,679.00	Receovery of License Fees	1,01,099.00					
4,14,000.00	Convocation Fees	3,02,500.00					
-	RTI Fees						
7,93,711.00	Income from Guest Hostel	6,58,905.00					
41,470.00	Rent recovered from Bank of Baroda, RGIPT	41,662.00					
43,810.45	Bonafide and Marksheet Verification Charges						
52,240.00	Vehicle Charges Recovered	57,690.00					
3,83,260.07	Recovery of Electricity Charges	4,88,057.64	**5,85,68,196.53**				
2,43,45,23,617.32							
	CONTRA ITEMS				**CONTRA ITEMS**		
26,37,136.00	Imprest Cash	28,00,068.00		26,37,136.00	Imprest Cash	28,00,068.00	
2,58,68,15,868.88	Bank to Bank Transfer	4,76,87,31,357.21		2,58,68,15,868.88	Bank To Bank Transfer	4,76,87,31,357.21	
31,13,71,884.00	Payment to Creditors cancel	40,63,465.00		31,13,71,884.00	Payment to creditors cancel	40,63,465.00	
-	Cheque Cancelled- Dibrugarh, Assam				Cheque Cancelled- Dibrugarh, Assam		
23,68,943.00	Cheque Cancelled- Statutory Liabilities	40,54,806.00		23,68,943.00	Cheque Cancelled- Statutory Liabilities	40,54,806.00	
-	Cancelled Cheques - NCCL				Cancelled Cheques - NCCL		
12,84,13,93,613.07	**TOTAL RECEIPTS**		**10,32,21,81,335.26**	**12,84,13,93,613.07**	**TOTAL PAYMENTS**		**10,32,21,81,335.26**

ASSISTANT REGISTRAR (ACCOUNTS) | **REGISTRAR** | **DIRECTOR** | **PRESIDENT (BoG)**

Signed on: 26/06/2025

विद्यारत्नम् महद्धनम्

Rajiv Gandhi Institute of Petroleum Technology (RGIPT)

Jais, Amethi, Uttar Pradesh, India

ACCOUNTS FOR THE FINANCIAL YEAR 2024-25

SCHEDULES FORMING PART OF BALANCE SHEET AND INCOME & EXPENDITURE ACCOUNT

1.	SCHEDULE-1	CORPUS/CAPITAL FUND
2.	SCHEDULE-2	RESERVE AND SURPLUS
3.	SCHEDULE-3	EARMARKED/ENDOWMENT FUNDS
4.	SCHEDULE-4	DEFERRED CREDIT LIABILITES AND PROVISIONS
5.	SCHEDULE-5	CURRENT LIABILITIES AND PROVISIONS
6.	SCHEDULE-6	FIXED ASSETS
7.	SCHEDULE-7	INVESTMENTS FROM EARMARKED/ENDOWNMENT FUNDS
8.	SCHEDULE-8	INVESTMENTS-OTHERS
9.	SCHEDULE-9	CURRENT ASSETS, LOANS & ADVANCES ETC.
10.	SCHEDULE-10	FEES/SUBSCRIPTIONS
11.	SCHEDULE-11	INTEREST EARNED
12.	SCHEDULE-12	OTHER INCOME
13.	SCHEDULE-13	ACADEMIC EXPENSES
14.	SCHEDULE-14	ESTABLISHMENT EXPENSES
15.	SCHEDULE-15	OTHER ADMINISTRATIVE EXPENSES
16	SCHEDULE-16	PRIOR PERIOD ADJUSTMENT
17.	SCHEDULE-17	SINIFICANT ACCOUNTING POLICIES
18.	SCHEDULE-18	NOTES ON ACCOUNTS AND CONTINGENT LIABILITIES

Signed on. 26/06/2025

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2025

AMOUNT(₹)

SCHEDULE - 1 - CORPUS / CAPITAL FUND	CURRENT YEAR		PREVIOUS YEAR	
CAPITAL FUND- RGIPT				
Government of India Budgetary Support				
Balance as at the beginning of the year	4,48,96,14,173.00		4,48,74,76,979.00	
Add : Contribution during the year	-		-	
	4,48,96,14,173.00		**4,48,74,76,979.00**	
Less: Previous Year Adjustment against Capital Fund (Own Contribution)	-		-	
	4,48,96,14,173.00		**4,48,74,76,979.00**	
Capital Fund Jais (Own Contribution)				
Add : Contribution during the year	**9,28,15,676.00**		-	
	4,58,24,29,849.00		**4,48,74,76,979.00**	
Add : Interest for the year from Bank	1,21,778.00	**4,58,25,51,627.00**	21,37,194.00	**4,48,96,14,173.00**
Capital Grant from Oil Industry Development Board				
Balance as at the beginning of the year	1,67,36,41,097.00		1,67,36,41,097.00	
Add : Contribution during the year	-		-	
Add : Interest for the year from Bank	-		-	
	1,67,36,41,097.00	**1,67,36,41,097.00**	**1,67,36,41,097.00**	**1,67,36,41,097.00**

Contd ...

ASSISTANT REGISTRAR (ACCOUNTS) **REGISTRAR** **DIRECTOR** **PRESIDENT (BOG)**

Signed on: 26/06/2025

... Contd

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2025

AMOUNT(₹)

SCHEDULE - 1 - CORPUS / CAPITAL FUND	CURRENT YEAR		PREVIOUS YEAR	
CAPITAL FUND- AEI				
Balance as at the beginning of the year	2,10,32,17,174.00		2,05,61,97,775.00	
Add: Contribution during the year			-	
Add: Received from Capital Grant from Oil India Ltd			-	
Add : Interest from Bank	5,26,40,222.92	**2,15,58,57,396.92**	4,70,19,399.00	**2,10,32,17,174.00**
CAPITAL FUND- EIB				
Balance as at the beginning of the year	1,12,27,89,090.00		1,05,24,23,192.00	
Add : Contribution during the year			-	
Add : Interest for the year from Bank	4,05,57,803.89	**1,16,33,46,893.89**	7,03,65,898.00	**1,12,27,89,090.00**
TOTAL CAPITAL FUND		**9,57,53,97,014.81**		**9,38,92,61,534.00**
Less : Capital Fund Adjustment - Assam (Cost of Land & Depreciation)				
Up to previous year	2,89,85,356.52		2,13,02,709.21	
During the current year	91,18,967.52		76,82,647.31	
	3,81,04,324.04		**2,89,85,356.52**	
Less : Capital Fund Adjustment - Bengaluru (Cost of Land & Depreciation)				
Up to previous year	1,19,90,095.52		58,45,112.63	
During the current year	1,09,79,046.41		61,44,982.89	
	2,29,69,141.93		**1,19,90,095.52**	

Contd ...

ASSISTANT REGISTRAR (ACCOUNTS) **REGISTRAR** **DIRECTOR** **PRESIDENT (BOG)**

Signed on. 26/06/2025

... Contd

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2024

AMOUNT(₹)

SCHEDULE - 1 - CORPUS / CAPITAL FUND	CURRENT YEAR		PREVIOUS YEAR	
Less : Capital Fund Adjustment - Jais (Cost of Land & Depreciation)				
Up to previous year	1,49,22,22,107.90		1,30,78,48,955.04	
During the current year	19,68,06,024.48		18,43,73,152.86	
	1,68,90,28,132.38	**1,75,01,01,598.35**	**1,49,22,22,107.90**	**1,53,31,97,559.94**
		7,82,52,95,416.46		**7,85,60,63,974.06**
CORPUS FUND				
AEI, SIVASAGAR				
Balance as at the beginning of the year	-		2,50,20,27,926.42	
Add: Transfer from Capital Fund Assam	-		-	
Add: Corpus Fund Received From Oil Companies	-			
Less: Transfer to Corpus/Earmarked Fund- AEI		-	2,50,20,27,926.42	-
RGIPT, JAIS				
Balance as at the beginning of the year				
Fund Balance	-		3,33,60,16,888.13	
Surplus Interest	-		-	
Less: Transfer to Corpus/Earmarked Fund- Jais	-		3,33,60,16,888.13	
Excess of Income over Expenditure	-		-	
	-		-	
Add: Contributions received during the year	-		-	
	-		-	
Add: Surplus Funds Allocated	-		-	
Add: Transfer from Income & Expenditure	-	-	-	-
Total		-		-
BALANCE AS AT THE YEAR END		**7,82,52,95,416.46**		**7,85,60,63,974.06**

ASSISTANT REGISTRAR (ACCOUNTS) | **REGISTRAR** | **DIRECTOR** | **PRESIDENT (BOG)**

Signed on: 26/06/2025

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2025

AMOUNT(₹)

SCHEDULE - 2 - RESERVES AND SURPLUS	CURRENT YEAR		PREVIOUS YEAR	
1. CAPITAL RESERVE				
As per last account	5,08,00,831.59		5,08,00,831.59	
Addition during the year	-		-	
Less: Deductions during the year	-	**5,08,00,831.59**	-	**5,08,00,831.59**
2. GENERAL RESERVE				
As per last account	1,05,29,86,980.35		1,02,93,07,963.24	
Less: Transfer to Institute Development Fund	-		-	
Less: Transfer to Capital Fund (Own Contribution)	9,28,15,676.00		-	
Less: Transfer to Institute Development Fund	45,959.00		-	
Less: Transfer to Depreciation Fund	-		-	
	96,01,25,345.35		**1,02,93,07,963.24**	
Add: Transfer from Contingent Fund	-		-	
Addition during the year	2,72,22,576.40		-	
Addition during the year (Excess of Income over Expenditure)	28,70,67,116.65	**1,27,44,15,038.40**	2,36,79,017.11	**1,05,29,86,980.35**
3. INSTITUTE DEVELOPMENT FUND	2,71,47,445.00			
As per last account	-		2,87,71,793.00	
Add: Mess Fee	-		-	
Add: Other Grant Overhead	-		-	
Add: Transfer from HAL Korwa	-		-	
Add: Fund Transfer to NTPC Project	-		-	
Add: Fund Transfer from Research & Development	-		-	
Add: Return of Advances given to External project	7,60,896.00		19,46,352.00	
Less : Fund Utilised	49,57,333.00	**2,29,51,008.00**	35,70,700.00	**2,71,47,445.00**
BALANCE AS AT THE YEAR END		**1,34,81,66,877.99**		**1,13,09,35,256.94**

ASSISTANT REGISTRAR (ACCOUNTS) | **REGISTRAR** | **DIRECTOR** | **PRESIDENT (BOG)**

Signed on: 26/06/2025

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2025

SCHEDULE - 3 - EARMARKED / ENDOWMENT FUND	AMOUNT(₹) CURRENT YEAR Opening Balance		AMOUNT(₹) CURRENT YEAR Receipts During the year		AMOUNT(₹) CURRENT YEAR Closing Balance		AMOUNT(₹) PREVIOUS YEAR	
1. Corpus/Endowment Fund- Jais								
Transfer from Schedule 1- Corpus/ Capital Fund Jais	3,33,60,16,888.13						3,33,60,16,888.13	
2. Corpus/Endowment Fund- Assam								
Transfer from Schedule 1- Corpus/ Capital Fund Assam	2,50,20,27,926.42	**5,83,80,44,814.55**					2,50,20,27,926.42	**5,83,80,44,814.55**
3. SCHOLARSHIP/ OTHER GRANTS								
a) Opening Balance of the Funds		44,15,299.38				-	-	42,12,078.38
b) Additions to Funds								
i. Donations/Grants:								
Bhaskar Research Ineternship			-		-		-	
Zila Kalyan Karayalaya - Saran/ Padhadhikari			-		-		-	
Bihar State Education Fin.Corp.	1,80,809.00		-		-		5,42,937.00	
Director of Technical Education	-		-		-		-	
Minsitry of Tribal Affairs	11,96,200.00		-		-		4,62,000.00	
MMVY Scholorship - MP	-		-		-		1,08,300.00	
Swami Dayanand Edu. Foundation	60,000.00		-		-		60,000.00	
ii. Prior Period Adjustments	-						-	
	14,37,009.00		-		-		**11,73,237.00**	**11,73,237.00**
Less: Refunds	-	14,37,009.00	-	-	-	-	-	
iii. Interest on Investments- On Earmarked Funds (Chevron)		1,72,841.00		-		-		1,14,587.00
iv. Interest Adjustment on Investments- On Earmarked Funds (Chevron)		-			-	-	-	-
TOTAL (a+b)		**60,25,149.38**		**0.00**		**0.00**		**54,99,902.38**

Contd ...

ASSISTANT REGISTRAR (ACCOUNTS) **REGISTRAR** **DIRECTOR** **PRESIDENT (BOG)**

... Contd

Signed on: 26/06/2025

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2025

SCHEDULE - 3 - EARMARKED / ENDOWMENT FUND	AMOUNT(₹) CURRENT YEAR Opening Balance		AMOUNT(₹) CURRENT YEAR Receipts During the year		AMOUNT(₹) CURRENT YEAR Closing Balance		AMOUNT(₹) PREVIOUS YEAR	
c) Utilisation / Expenditure towards objectives of the Funds								
i. Capital Expenditure								
ii. Revenue Expenditure								
Other Expenditure (Scholorship Distributed)								
Chevron Scholorship	-		-		-		-	
Bhaskar Research Ineternship Award	-		-		-		-	
Zila Kalyan Karayalaya - Saran/Padhadikari	-		-		-		-	
Unnat Bharat Abhiyan	-		-		-		-	
Minsitry of Tribal Affairs	3,33,200.00		-		-		4,62,000.00	
Bihar State Education Fin.Corp.	1,64,000.00		-		-		5,62,603.00	
Swami Dayanand Education Foundation	60,000.00		-		-		60,000.00	
Scholarship Grant ONGC	-		-		-		-	
Central Sector Scholarship Scheme (MOSJE)	-	5,57,200.00	-	-	-	-	-	**10,84,603.00**
TOTAL (c)		**5,57,200.00**		-		-		**10,84,603.00**
NET BALANCE OF SCHOLRSHIP AS AT THE YEAR END (a+b-c)		**54,67,949.38**		-		-		**44,15,299.38**
BALANCE OF ENDOWMENT FUND AS AT YEAR END (1+2+3)		**5,84,35,12,763.93**						**5,84,24,60,113.93**

ASSISTANT REGISTRAR (ACCOUNTS) **REGISTRAR** **DIRECTOR** **PRESIDENT (BOG)**

Signed on: 26/06/2025

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2025

AMOUNT(₹)

SCHEDULE- 4- DEFERRED CREDIT LIABILITIES	CURRENT YEAR		PREVIOUS YEAR	
Others - Research Grants - Opening Balance	3,77,63,422.94		7,21,09,570.83	
Add : Prior Period Item	16,29,202.00		-	
Add : Interest Received During the year	21,16,418.00		23,05,197.00	
Add : Received During the year	3,49,27,523.50		4,70,86,526.13	
	7,64,36,566.44		**12,15,01,293.96**	
Less : Refunded During the year	18,84,185.30		-	
Less : Utilized During the year	3,39,78,005.40	**4,05,74,375.74**	8,37,37,871.02	**3,77,63,422.94**
BALANCE GRANTS REPRESENTED BY :				
Dr. Rakesh Kumar - Council of Science & Tech.	532.00		50,730.00	
Dr. Chanchal Kundu - NBHM	-		40.00	
Dr. U. P. Ojha - SERB	-		15,456.40	
Dr. Chanchal Kundu - DAE	-		7,267.00	
Dr. U. P. Ojha - DAE	-		3,61,754.00	
Dr. Atul Sharma - DST	-		45,959.00	
Dr. Alok Kumar Singh - DST	21,601.00		21,601.00	
Dr. Susham Biswas - GEOKNO INDIA	-		94,456.00	
Dr. Chanchal Kundu - DST	-		65,574.00	
Dr. Amit Ranjan - DST	-		27,033.00	
Dr. Shivanjali Sharma - DST	-		197.00	
Dr. Tushar Sharma - DST	-		9,248.00	
Dr. Amritanshu Shukla - DST	-		2,42,388.00	
Dr. Debashis Panda - CSIR	0.12		0.12	
Niharika Pandey - DST	-		5,962.00	

Contd ...

ASSISTANT REGISTRAR (ACCOUNTS) | REGISTRAR | DIRECTOR | PRESIDENT (BOG)

... Contd

Signed on: 26/06/2025

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2025

AMOUNT(₹)

SCHEDULE- 4- DEFERRED CREDIT LIABILITIES	CURRENT YEAR		PREVIOUS YEAR	
Dr. G. K. Agrahari - DST	3,05,211.00		3,05,211.00	
Prof. A.S.K. Sinha - DST	-2,69,612.21		2,04,069.79	
Dr. P. K. Parida - Minority Affairs	9,19,585.00		10,16,185.00	
Dr. Arshad Aijaz - SERB	-		6,710.00	
Dr. G. R. Dilip - DST	-		3,33,527.77	
Dr. K.G. Biswas - CSIR	-		-11,763.00	
Dr. Arshad Aijaz - CSIR	25,959.00		28,959.00	
Prof. A.S.K. Sinha - PCRA	10,86,971.00		8,36,971.00	
Dr. Debashis Panda - SERB	4,41,306.63		3,31,506.63	
Dr. Shikha Singh - DST	-69,000.00		5,00,703.00	
Dr. U. P. Ojha - NTPC	7,96,601.00		16,44,001.00	
Scholarship - Ministry of Social Justice	41,360.00		41,360.00	
Scholarship - ONGC	60,000.00		60,000.00	
Dr. Alok Kumar Singh - AICTE	1,18,505.00		1,18,505.00	
Dr. Anirban Mukjherjee - ICSSR	4,398.00		1,023.00	
Ms. Jyoti (Ph.D) - DST	-		2,50,957.00	
Gyan Arpan Project - HAL- Korwa	50,62,431.60		63,70,431.60	
Dr. Susham Biswas - SCM	1,50,000.00		1,50,000.00	
Dr. Satish Sinha - SEG	11,814.00		11,814.00	
Dr. V.S. Sistla - CSIR	-		1,80,000.00	

Contd ...

ASSISTANT REGISTRAR (ACCOUNTS) | REGISTRAR | DIRECTOR | PRESIDENT (BOG)

... Contd

Signed on: 26/06/2025

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2025

AMOUNT(₹)

SCHEDULE- 4- DEFERRED CREDIT LIABILITIES	CURRENT YEAR		PREVIOUS YEAR	
Interest	78,96,839.00		58,97,923.00	
Dr. Milan Kumar - DSIR	14,585.60		1,03,081.60	
Dr. Tushar Sharma - ONGC	-		2,09,163.00	
Dr. Abhishek Kumar - SERB	-2,13,858.00		-37,406.00	
Dr. Shailesh Kumar - SERB	871.00		78,355.00	
Dr. Vipin Amoli - SERB	1,345.00		32,792.00	
Dr. Tathamay Basu - SERB	10,231.00		17,25,164.00	
Dr. Tushar Sharma - SERB	2,42,055.00		3,41,709.00	
Dr. Karan Malik - SERB	46,367.00		7,47,185.00	
Dr. Satish Sinha - OIL	7,56,038.00		17,13,438.00	
Dr. S. Shivsankari - SERB	4,792.00		4,792.00	
Dr. S. Kundu - SERB	-		2,10,925.00	
Dr. MD Irfan - ISM	95,559.00		95,559.00	
Dr. Amit Saxena - HPCL	33,313.00		7,06,129.00	
Dr. Alok Kumar Singh - OIL	1,162.00		7,55,162.00	
Dr. Alpesh Kumar - SERB	2,20,000.00		2,20,000.00	
Dr. S.Sivasankari	2,409.00		-	
Dr. Shivanjali Sharma - SERB	1,91,083.00		78,186.00	

Contd ...

ASSISTANT REGISTRAR (ACCOUNTS) | REGISTRAR | DIRECTOR | PRESIDENT (BOG)

... Contd

Signed on: 26/06/2025

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)

NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2025

AMOUNT(₹)

SCHEDULE- 4- DEFERRED CREDIT LIABILITIES	CURRENT YEAR		PREVIOUS YEAR	
Grant received from DAE	2,44,534.00		2,00,279.00	
DGH PROJECT	9,71,838.00		13,91,838.00	
Prasad BSN - KSCC	10,000.00		10,000.00	
Grant received from CSIR	-		1,15,292.00	
Dr. Sajal Agarwal - SERB	-		23,528.00	
Dr. Siddharth Gautam- SERB	-		13,94,717.00	
Dr. Ambrish Dubey - CST UP Workshop Grant	5,464.00		5,464.03	
P- 2308- DR. SIDHARTH GAUTAM	52,237.00		-	
P- 2401	34,54,737.00		-	
P- 2402- DR. MILAN KUMAR	11,88,000.00		-	
P- 2406 DR. MALAYA KUMAR SAHOO	20,14,786.00		-	
P- 2407- DR. DEEPAK DWIVEDI	14,88,000.00		-	
P- 2408- DR. D. PANDA	14,00,000.00		-	
P- 2410- DR. SHWETA	11,88,000.00		-	
P- 2411- DR. AMIT SAXENA	1,17,810.00		-	
P- 2412- DR. MALAYA KUMAR SAHOO	18,25,000.00		-	
P- 2414 DR. ARSHAD AIJAZ	40,00,000.00		-	
RGIPT/JAIS/CST/Dr. Saptarishi Gosh/P-2404	2,36,065.00		-	
RGIPT/JAIS/CST/K.G BISWAS/P-2405	2,86,744.00		-	
Dr. Deepak Dwivedi	2,67,566.00		-1,55,053.00	
Dr Debashish Panda	24,21,882.00		26,01,700.00	
Dr Amit Saxena	-3,15,831.00		17,81,269.00	
Dr. Rohit Bansal	-80,265.00		-80,265.00	
Dr. Satish Sinha	3,93,475.00		3,92,968.00	
Dr. Amit Saxena	-19,148.00		7,35,606.00	

Contd ...

ASSISTANT REGISTRAR (ACCOUNTS) | REGISTRAR | DIRECTOR | PRESIDENT (BOG)

... Contd

Signed on: 26/06/2025

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2025

AMOUNT(₹)

SCHEDULE- 4- DEFERRED CREDIT LIABILITIES	CURRENT YEAR		PREVIOUS YEAR	
IOCL T-2304	1,52,543.00		-	
Consultancy Project Geowing Engg.	4,80,000.00		-	
Dr. Debashih De	1.00		45,000.00	
Dr. Rohit Bansal	3,11,183.00		-	
Dr. Sajal Agarwal	3,45,024.00		-	
Dr. Jaya Srivastava	2,40,085.00		2,40,085.00	
Fellowship-Jyoti P-2104 (PFMS)	-20,000.00		-	
RGIPT/JAIS/ONGC/P-2217	-1,10,886.00		-	
Dr. Amit Kumar	15,077.00		28,51,000.00	
	4,05,74,375.74		3,77,63,422.94	
TOTAL		0.00		0.00
NOTE : Amounts due within one year		0.00		0.00

ASSISTANT REGISTRAR (ACCOUNTS) | REGISTRAR | DIRECTOR | PRESIDENT (BOG)

Signed on: 26/06/2025

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2025

AMOUNT(₹)

SCHEDULE - 5 - CURRENT LIABILITIES & PROVISIONS	CURRENT YEAR		PREVIOUS YEAR	
A. CURRENT LIABILITIES				
1. Sundry Creditors				
a) For Goods/ Services	4,54,20,697.13		10,39,66,503.87	
b) Others	16,51,646.33	**4,70,72,343.46**	10,51,640.33	**10,50,18,144.20**
2. Advance Fees Received from Students	12,64,66,583.00	**12,64,66,583.00**	7,10,85,840.00	**7,10,85,840.00**
3. a) Statutory Liabilities	1,34,50,403.00		1,18,43,332.00	
b) Others	-	**1,34,50,403.00**	-	**1,18,43,332.00**
4. Other Current Liablities				
a) Preliminary Fund - Banglore- Opening Balance	50,00,00,000.00		50,00,00,000.00	
Received during the year	-		-	
Less (Add): Refunds	-	**50,00,00,000.00**	-	**50,00,00,000.00**
b) Alumni Fund	38,36,094.00		32,01,994.00	
c) Student Welfare Fund	1,28,96,080.00		22,06,080.00	
d) Scholarship & Stipend Payable to P.hd. Students	-		-	
e) Others	21,900.00		5,50,000.00	
f) Mess Advance from Students	3,18,56,884.34		2,76,96,486.65	
g) Faculty/ Staff	-		-	
h) B.Tech Fees Refundable	3,36,600.00		3,36,600.00	
i) Caution Money Payable	1,93,81,100.00		1,59,26,100.00	
j) Fund for AAPG Student Chapter	16,992.00		21,590.00	
k) Fellowship received from IICHE	968.00		30,968.00	
l) Funds received from Rural Development	1,74,384.00		1,74,384.00	
l) Unexplained Liabilities	16,11,184.00	**7,01,32,186.34**	-	**5,01,44,202.65**
5. Retention Money of Vendors	3,78,05,641.79		3,57,12,438.39	
6. Earnest Money Deposit/Security Deposit	64,52,297.80	**4,42,57,939.59**	46,77,953.80	**4,03,90,392.19**
TOTAL (A)		**80,13,79,455.39**		**77,84,81,911.04**

Contd ...

ASSISTANT REGISTRAR (ACCOUNTS) | REGISTRAR | DIRECTOR | PRESIDENT (BOG)

... Contd

Signed on: 26/06/2025

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2025

AMOUNT(₹)

SCHEDULE - 5 - CURRENT LIABILITIES & PROVISIONS	CURRENT YEAR		PREVIOUS YEAR	
B PROVISIONS				
1. Provision for Gratuity - JAIS	5,46,91,668.00			3,90,65,472.00
2. Provision for Leave Encashment -JAIS	8,18,18,012.00			6,50,42,544.00
3. Provision For Gratuity Assam	97,96,572.00			59,35,428.00
4. Provision For Gratuity Banglore	32,41,987.00			17,47,695.00
5. Provision For Leave Encashment Banglore	25,46,185.00			15,43,632.00
6. Provision For Leave Encashment Assam	73,96,134.00			46,20,539.00
7. Provision for Doubtful Debts (UPSIDC)	41,80,008.00			41,80,008.00
TOTAL (B)	**16,36,70,566.00**	**16,36,70,566.00**		**12,21,35,318.00**
TOTAL (A+B)	**16,36,70,566.00**	**96,50,50,021.39**		**90,06,17,229.04**

ASSISTANT REGISTRAR (ACCOUNTS) | REGISTRAR | DIRECTOR | PRESIDENT (BOG)

Signed on 26/06/2025

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2025
SCHEDULES - 6 - FIXED ASSETS

AMOUNT (₹)

DESCRIPTION	Rate of Depriciation	GROSS BLOCK				DEPRECIATION					NET BLOCK	
		COST AS AT BEGINNING OF THE YEAR	ADDITIONS DURING THE YEAR	DEDUCTIONS/ ADJ. DURING THE YEAR	COST/ AT THE YEAR-END	AS AT BEGINNING OF THE YEAR	DURING THE YEAR	Prior Period Adjustment	ON DEDUCTIONS/ ADJ. DURING THE YEAR	TOTAL UP TO THE YEAR-END	AS AT THE CURRENT YEAR-END	AS AT THE PREVIOUS YEAR-END
A. FIXED ASSETS-TANGIBLE												
1. LAND												
a) Freehold- Jais	0.00%	4,47,03,297			4,47,03,297	-	-	-		-	4,47,03,297	4,47,03,297
b) Freehold-Assam	0.00%	60,97,535			60,97,535	-	-	-	-	-	60,97,535	60,97,535
c) Lease Hold Land-Banglore	0.00%	150			150	-	-	-	-	-	150	150
		-			-		-			-	-	
2. BUILDINGS												
a) On Freehold Land-Jais	2.00%	3,73,34,67,474	40,71,170	3,52,686	3,73,71,85,958	63,44,33,786	7,47,43,719		6,915	70,91,70,591	3,02,80,15,367	3,09,90,33,688
b) On Freehold Land-Assam	2.00%	17,37,63,524			17,37,63,524	97,84,778	34,75,270		-	1,32,60,048	16,05,03,476	16,39,78,746
c) On Freehold Land-Banglore	2.00%	-	9,18,60,205	-	9,18,60,205	-	18,37,204		-	18,37,204	9,00,23,001	-
3. PLANT & MACHINERY												
a) General Equipment	5.00%	17,19,90,389			17,19,90,389	10,28,87,949	85,99,519		-	11,14,87,469	6,05,02,920	6,91,02,440
b) High Capacity Chiller Plant	5.00%	9,16,27,855			9,16,27,855	5,48,13,542	45,81,393		-	5,93,94,935	3,22,32,921	3,68,14,313
c) Lab Equipments-Jais	8.00%	63,21,69,136	5,74,94,279		68,96,63,415	15,76,72,458	5,51,73,073		-	21,28,45,532	47,68,17,884	47,44,96,678
d) Lab Equipment-Assam	8.00%	1,56,27,631	28,24,777		1,84,52,408	19,03,886	14,76,193		-	33,80,079	1,50,72,329	1,37,23,745
e) Lab Equipments-Banglore	8.00%	1,91,48,413	77,92,804		2,69,41,217	17,17,678	21,55,297		-	38,72,976	2,30,68,241	1,74,30,735
f) Fire Fighting System	5.00%	5,49,97,877			5,49,97,877	3,28,70,222	27,49,894		-	3,56,20,116	1,93,77,761	2,21,27,655
g) Telecommunication Network	5.00%	5,90,58,373			5,90,58,373	2,65,96,546	29,52,919		-	2,95,49,465	2,95,08,908	3,24,61,827
g) Building Management System	5.00%	4,68,14,361			4,68,14,361	3,49,44,034	23,40,718		-	3,72,84,752	95,29,609	1,18,70,327
4. VEHICLES	10.00%	1,57,45,818	19,70,000		1,77,15,818	1,52,40,285	17,71,582		-	1,70,11,867	7,03,950	5,05,532

Contd ...

ASSISTANT REGISTRAR (ACCOUNTS) | REGISTRAR | DIRECTOR | PRESIDENT (BOG)

26/06/2025

... Contd

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2025
SCHEDULES - 6 - FIXED ASSETS

AMOUNT (₹)

DESCRIPTION	Rate of Depreciation	GROSS BLOCK				DEPRECIATION					NET BLOCK	
		COST AS AT BEGINNING OF THE YEAR	ADDITIONS DURING THE YEAR	DEDUCTIONS/ ADJ. DURING THE YEAR	COST/ AT THE YEAR-END	AS AT BEGINNING OF THE YEAR	DURING THE YEAR	Prior Period Adjustment	ON DEDUCTIONS/ ADJ. DURING THE YEAR	TOTAL UP TO THE YEAR-END	AS AT THE CURRENT YEAR-END	AS AT THE PREVIOUS YEAR-END
5. FURNITURE , FIXTURES												
Jais	7.50%	12,65,52,095	84,76,136		13,50,28,231	6,48,94,233	1,01,27,117	-	-	7,50,21,350	6,00,06,881	6,16,57,862
Banglore	7.50%	25,51,350			25,51,350	4,62,273	1,91,351	-	-	6,53,624	18,97,726	20,89,077
Assam	7.50%	2,15,67,908	18,20,600		2,33,88,508	61,25,755	17,54,138	-	-	78,79,893	1,55,08,615	1,54,42,153
6. OFFICE EQUIPMENTS												
Jais	7.50%	38,70,930	1,26,999		39,97,929	25,88,237	2,99,845	-	-	28,88,081	11,09,848	12,82,693
Assam	7.50%	1,60,910	-		1,60,910	1,11,161	12,068	-	-	1,23,229	37,681	49,749
7. COMPUTER/ PERIPHERALS												
Jais	20.00%	12,95,26,351	1,47,95,829		14,43,22,180	12,04,67,941	1,41,69,594		-	13,46,37,535	96,84,645	90,58,410
Assam	20.00%	83,21,478	12,14,781		95,36,259	41,80,955	19,07,252	-	-	60,88,207	34,48,052	41,40,523
Banglore	20.00%	2,20,14,506	25,72,789		2,45,87,295	87,84,888	49,17,459	-	-	1,37,02,347	1,08,84,948	1,32,29,618
8. ELECTRIC EQUIPMENTS												
Jais	5.00%	20,13,01,225	55,19,323		20,68,20,548	12,08,19,893	1,03,41,027	-	-	13,11,60,920	7,56,59,628	8,04,81,332
Assam	5.00%	50,11,191	-		50,11,191	6,09,327	2,50,560	-	-	8,59,887	41,51,304	44,01,864
Banglore	5.00%	-	13,13,261		13,13,261	-	65,663	-	-	65,663	12,47,598	-
9. LIBRARY BOOKS												
Jais	10.00%	2,46,23,307	27,69,412		2,73,92,719	1,53,09,370	27,39,272	-	-	1,80,48,642	93,44,077	93,13,937
Assam	10.00%	11,17,110	8,47,005		19,64,115	4,42,750	1,96,412	-	-	6,39,161	13,24,954	6,74,360
Banglore	10.00%	28,43,569	3,95,728		32,39,297	21,78,712	3,23,930	-	-	25,02,641	7,36,655	6,64,857
10. OTHER FIXED ASSETS												
Jais	7.50%	2,02,88,175	3,45,497		2,06,33,672	66,37,316	15,47,525	-	-	81,84,841	1,24,48,831	1,36,50,859
Banglore	7.50%	-	10,19,402		10,19,402	-	76,455	-	-	76,455	9,42,947	-
Assam	7.50%	2,68,492	37,376		3,02,868	99,298	22,715	-	-	1,22,013	1,80,855	1,66,194

Contd ...

ASSISTANT REGISTRAR (ACCOUNTS) REGISTRAR DIRECTOR PRESIDENT (BOG)

Signed on: 26/06/2025

... Contd

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2025
SCHEDULES - 6 - FIXED ASSETS

AMOUNT (₹)

DESCRIPTION	Rate of Depreciation	GROSS BLOCK				DEPRECIATION					NET BLOCK	
		COST AS AT BEGINNING OF THE YEAR	ADDITIONS DURING THE YEAR	DEDUCTIONS/ ADJ. DURING THE YEAR	COST/ AT THE YEAR-END	AS AT BEGINNING OF THE YEAR	DURING THE YEAR	Prior Period Adjustment	ON DEDUCTIONS/ ADJ. DURING THE YEAR	TOTAL UP TO THE YEAR-END	AS AT THE CURRENT YEAR-END	AS AT THE PREVIOUS YEAR-END
11. (i) HOSTEL EQUIPMENTS-JAIS	7.50%	47,53,988	48,822	-	48,02,810	45,12,580	2,90,230	-	-	48,02,810	-	2,41,408
11. (ii) HOSTEL EQUIPMENTS-Banglore	7.50%	-	9,28,100		9,28,100	-	69,608	-	-	69,608	8,58,493	-
		-			-	-	-			-	-	
B. FIXED ASSETS - INTANGIBLE		-			-	-	-			-	-	
		-			-	-	-			-	-	
1. PATENT & COPYRIGHTS	11.11%	4,94,836	-	-	4,94,836	1,64,929	54,976	-	-	2,19,905	2,74,931	3,29,907
		-			-	-	-			-	-	
2. SOFTWARE		-			-	-	-			-	-	
Jais	40.00%	96,84,320	11,24,732		1,08,09,052	35,52,364	43,23,621		-	78,75,985	29,33,067	61,31,956
Assam	40.00%	60,900	-		60,900	16,842	24,360	-		41,202	19,698	44,058
Banglore	40.00%	33,55,198	-		33,55,198	9,68,739	13,42,079	-		23,10,819	10,44,380	23,86,459
										-		
TOTAL OF CURRENT YEAR		5,65,35,76,672	20,93,69,027	3,52,686	5,86,25,93,013	1,43,57,92,730	21,69,04,038	-	6,915	1,65,26,89,854	4,20,99,03,159	4,21,77,83,941
PREVIOUS YEAR		5,48,64,30,209	34,62,21,661	17,90,75,198	5,65,35,76,671	1,28,05,37,701	19,82,00,782	4,29,45,754.00	-	1,43,57,92,730	4,21,77,83,941	4,20,58,92,508

ASSISTANT REGISTRAR (ACCOUNTS) | REGISTRAR | DIRECTOR | PRESIDENT (BOG)

Signed on: 26/06/2025

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2025
SCHEDULES - 6 - FIXED ASSETS

AMOUNT (₹)

DESCRIPTION	GROSS BLOCK				DEPRECIATION					NET BLOCK	
	COST AS AT BEGINNING OF THE YEAR	ADDITIONS DURING THE YEAR	DEDUCTIONS/ ADJ DURING THE YEAR	COST/ AT THE YEAR-END	AS AT BEGINNING OF THE YEAR	DURING THE YEAR		ON DEDUCTIONS/ ADJ DURING THE YEAR	TOTAL UP TO THE YEAR-END	AS AT THE CURRENT YEAR-END	AS AT THE PREVIOUS YEAR-END
CAPITAL WORK-IN-PROGRESS											
A -RGIPT, JAIS PROJECT											
Amenties for Faculty Staff-Jais	-			-	-	-	-	-	-	-	-
Fixed Assets	-	7,46,904.80		7,46,904.80	-	-	-	-	-	7,46,904.80	-0.36
Lab Equipment	83,31,339.35	16,86,697.00	14,51,700.00	85,66,336.35	-	-	-	-	-	85,66,336.35	83,31,339.35
Building Under Construction	30,74,98,330.13	62,03,18,164.00	40,71,170.00	92,37,45,324.13	-	-	-	-	-	92,37,45,324.13	30,74,98,330.13
Swami Vivekanand Statue	8,85,000.00	-	-	8,85,000.00	-	-	-	-	-	8,85,000.00	8,85,000.00
TOTAL (A)	31,67,14,669.48	62,27,51,765.80	55,22,870.00	93,39,43,565.28	-	-	-	-	-	93,39,43,565.28	31,67,14,669.12
B - AEI, SIVSAGAR PROJECT							-				
Project Management Expenses				-	-	-		-	-	-	-
Project Management Fee				-	-	-	-	-	-	-	-
Civil Work In Progress	43,78,68,553.00	69,03,04,701.00		1,12,81,73,254.00	-	-	-	-	-	1,12,81,73,254.00	43,78,68,553.00
Lab Equipment				-	-	-	-	-	-	-	-
Secured Advance Against Material	-	-	-	-	-	-	-	-	-	-	-
TOTAL (B)	43,78,68,553.00	69,03,04,701.00	-	1,12,81,73,254.00	-	-	-	-	-	1,12,81,73,254.00	43,78,68,553.00
C-BANGLORE PROJECT											
Buidling under Construction	14,51,42,848.00	56,13,03,061.00	9,18,60,205.00	61,45,85,704.00	-	-	-	-	-	61,45,85,704.00	14,51,42,848.00
Banglore Management Expenses	1,03,53,196.00	-	-	1,03,53,196.00	-	-	-	-	-	1,03,53,196.00	1,03,53,196.00
TOTAL - C	15,54,96,044.00	56,13,03,061.00	9,18,60,205.00	62,49,38,900.00	-	-	-	-	-	62,49,38,900.00	15,54,96,044.00
TOTAL CWIP (A+B+C+D)	91,00,79,266.48	1,87,43,59,527.80	9,73,83,075.00	2,68,70,55,719.28	-	-	-	-	-	2,68,70,55,719.28	91,00,79,266.12
GRAND TOTAL	6,56,36,55,938.13	2,08,37,28,555.07	9,77,35,761.00	8,54,96,48,732.20	1,43,57,92,730.28	21,69,04,038.40	-	6,915.00	1,65,26,89,853.68	6,89,69,58,878.52	5,12,78,63,207.38
PREVIOUS YEAR GRAND TOTAL	6,57,37,38,668.00	37,01,02,412.00	38,01,85,042.00	6,56,36,55,938.00	1,28,05,37,701.00	19,82,00,782.00	4,29,45,754.00		1,43,57,92,730.00	5,12,78,63,207.00	5,29,32,00,867.00

ASSISTANT REGISTRAR (ACCOUNTS) | REGISTRAR | DIRECTOR | PRESIDENT (BOG)

Signed on: 26/06/2025

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2025

AMOUNT(₹)

SCHEDULE - 7- INVESTMENTS - EARMARKED/ ENDOWMENT FUND	CURRENT YEAR		PREVIOUS YEAR	
1. In Government Securities		-		-
2. Other Approved Securities		-		-
3. Shares		-		-
4. Debentures and Bonds		-		-
5. Subsidiaries and Joint Ventures		-		-
6. Fixed Deposit		-		
Fixed Deposits-Jais (Endowment)	3,03,88,26,414.00			
Fixed Deposits-Assam (Endowment)	2,56,62,46,378.00			
Other Fixed Deposit	24,00,000.00	5,60,74,72,792.00		24,00,000.00
TOTAL		**5,60,74,72,792.00**		**24,00,000.00**

AMOUNT(₹)

SCHEDULE- 8- INVESTMENTS-OTHERS	CURRENT YEAR		PREVIOUS YEAR	
1. In Government Securities (RBI Bonds- Not Marketable)		-		-
2. Other Approved Securities		-		-
3. Shares		-		-
4. Debentures and Bonds		-		-
5. Subsidiaries and Joint Ventures		-		-
6. Others		-		-
Gratuity fund With LIC-Assam	68,56,326.26		29,03,512.00	
Gratuity fund With LIC- Jais	4,36,57,863.07		2,76,68,259.00	
Gratuity fund With LIC- Bangalore	19,98,980.21		13,26,382.00	
Leave Incashment Fund With LIC- Assam	51,54,310.98		21,65,583.00	
Leave Incashment Fund With LIC- Banglore	17,79,577.56		10,33,889.00	
Leave Incashment Fund With LIC- Jais	7,35,79,971.01	13,30,27,029.09	4,85,55,604.00	8,36,53,229.00
TOTAL		**13,30,27,029.09**		**8,36,53,229.00**

ASSISTANT REGISTRAR (ACCOUNTS)	REGISTRAR	DIRECTOR	PRESIDENT (BOG)

Signed on: 26/06/2025

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2025

AMOUNT(₹)

SCHEDULE - 9 -CURRENT ASSETS, LOANS & ADVANCES	CURRENT YEAR		PREVIOUS YEAR	
A. CURRENT ASSETS :				
1. Inventories				
a) Stores and Spares (Stationery Items)	5,16,083.00		47,977.00	
b) Stock of Medicine	3,19,846.80		-	
c) Stock of Civil and Electrical Materials	24,48,031.00		26,20,264.00	
d) Stock of Computer/ IT Consumables	-		47,258.00	
e) Stock of Diesel	5,69,739.00	**38,53,699.80**	2,30,402.00	**29,45,901.00**
2. Sundry Debtors				
a) Debts Outstanding for a period exceeding six months	29,82,263.75			
b) Other Debts (Receivable against Workshop/ Training Programme)	1,79,86,451.91	**2,09,68,715.66**	1,22,75,661.09	**1,22,75,661.09**
3. Cash Balances in Hand (including Cheques/Drafts and imprest)		-		
4. Bank Balances				
a) With Scheduled Bank:				
- on Current Accounts	2,47,715.60		5,57,822.00	
- on Deposit Accounts	2,22,50,85,145.00		8,61,69,94,563.00	
- on Savings Accounts	82,04,96,827.28	**3,04,58,29,687.88**	50,56,22,844.97	**9,12,31,75,229.97**
b) With Non - Scheduled Bank:	-		-	
TOTAL (A)		**3,07,06,52,103.34**		**9,13,83,96,792.06**

Contd ...

ASSISTANT REGISTRAR (ACCOUNTS) | REGISTRAR | DIRECTOR | PRESIDENT (BOG)

Signed on: 26/06/2025

... Contd

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2024

AMOUNT(₹)

SCHEDULE - 9 -CURRENT ASSETS, LOANS & ADVANCES	CURRENT YEAR		PREVIOUS YEAR	
B. LOANS , ADVANCES AND OTHER ASSETS :				
1. Advances:				
a) Staff - Advance for Activity	-		-	
b) Others	-	-	1,34,579.00	**1,34,579.00**
2.Advances and other amounts recoverable in cash or in kind or for value to be received:				
a) On Capital Account	41,80,008.00		1,05,75,30,744.00	
b) Prepayments	25,57,121.60		28,31,558.52	
c) Security Deposits Paid	56,18,882.00		52,91,882.00	
d) Others	7,30,17,318.55	**8,53,73,330.15**	6,56,51,096.33	**1,13,13,05,280.85**
3.Income Accrued:				
a) On Investments from Earmarked/Endowment Funds				
b) On Investments-Others	19,69,03,558.43		27,03,96,468.00	
c) On Loans and Advances	7,83,768.00		-	
d) Others - Student Fees Due	3,14,27,995.98	**22,91,15,322.41**	1,36,90,440.35	**28,40,86,908.35**
4.Claims Receivable:		-		-
TOTAL (B)		**31,44,88,652.56**		**1,41,55,26,768.20**
TOTAL (A+B)		**3,38,51,40,755.90**		**10,55,39,23,560.26**

ASSISTANT REGISTRAR (ACCOUNTS) | **REGISTRAR** | **DIRECTOR** | **PRESIDENT (BOG)**

Signed on: 26/06/2025

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)

NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS

SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31ST MARCH 2025

AMOUNT (₹)

SCHEDULE - 10 - FEES/SUBSCRIPTIONS	CURRENT YEAR		PREVIOUS YEAR	
1. Entrance Fees	17,77,468.00		16,13,222.00	
2. Annual Fees/ Subscription	40,78,79,836.54		33,85,37,546.00	
		40,96,57,304.54		34,01,50,768.00
TOTAL		40,96,57,304.54		34,01,50,768.00

ASSISTANT REGISTRAR (ACCOUNTS) | REGISTRAR | DIRECTOR | PRESIDENT (BOG)

Signed on: 26/06/2025

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31ST MARCH 2025

AMOUNT (₹)

SCHEDULE - 11 - INTEREST EARNED	CURRENT YEAR		PREVIOUS YEAR	
1) On Term Deposits :				
a) With Scheduled Banks	57,18,05,891.43		52,34,42,723.00	
b) With Non-Scheduled Banks	-		-	
c) With Institutions (Govt. of India Bond)	-		-	
d) Others	-	**57,18,05,891.43**	-	**52,34,42,723.00**
2) On Savings Accounts :				
a) With Scheduled Banks	84,49,045.00		82,74,121.85	
b) With Scheduled Banks in Sweep A/c	2,78,00,690.90		1,46,37,345.00	
c) With Non-Scheduled Banks	-		-	
d) With Institutions	-		-	
e) Others	-	**3,62,49,735.90**	-	**2,29,11,466.85**
		60,80,55,627.33		**54,63,54,189.85**
Less : Transfer to Capital Fund				
a) Capital Fund RGIPT, JAIS	-		-	
b) Capital Fund AEI , Sivasagar	4,93,81,988.91		3,87,75,409.00	
c) Capital Fund (Grant OIDB)			-	
d) Capital Fund EIB, Bangaluru	3,92,88,276.89		6,70,60,511.00	
e) Depreciation Fund			-	
f) Interest on Bank Guarantee Invoked-NCCL			-	
g) Earmarked Fund - Chevron Scholarship Grant	1,72,841.00		1,52,638.00	
h) Deferred Credit Liabilties - DST Grants	21,16,418.00	**9,09,59,524.80**	25,23,368.00	**10,85,11,926.00**
		51,70,96,102.52		**43,78,42,263.85**
3) On Loans:				
a) Employees/Staff	-		-	
b) Others- Interest on IT Refund	-	-	5,80,853.00	**5,80,853.00**
4) Interest on Debtors and Other Receivables:	-	-	-	-
5) Interest on Investment with LIC		95,37,423.46		
TOTAL		**52,66,33,525.98**		**43,84,23,116.85**

ASSISTANT REGISTRAR (ACCOUNTS)	REGISTRAR	DIRECTOR	PRESIDENT (BOG)

Signed on: 26/06/2025

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31ST MARCH 2025

AMOUNT (₹)

SCHEDULE - 12 - OTHER INCOME	CURRENT YEAR		PREVIOUS YEAR	
1.Profit on Sale/Disposal of Assets				
a) Owned Assets	-	-	-	-
b) Assets acquired out of grants or received free of cost	-	-	-	-
2. Export Incentives realised	-	-	-	-
3. Fees for Miscellaneous Services				
Recovery of Transport/ Vehicles running charges				
Income From Vehicles	69,480.00		25,140.00	
Recovery of Transport Charges - Academic	3,03,951.00		2,48,378.00	
Recovery of Transport Charges - Non-Academic	2,70,129.00	**6,43,560.00**	2,42,882.00	**5,16,400.00**
Recovery of Electricity charges RGIPT Jais				
Recovery Of Electricity Charges- Ph.D Students	1,22,486.00		54,389.00	
Recovery of Electricity Charges- Faculty	14,29,824.00		12,48,614.00	
Recovery of Electricity Charges- Non Faculty	7,18,370.00		5,71,763.00	
Recovery of Electricity Charges- BOB	1,19,620.33		73,843.07	
Recovery of Electricity Charges- Washermen	2,611.00		1,820.00	
Recovery of Electricity Charges- Post Office	5,097.00		3,096.00	
Recovery of Electricity Charges-SR ENTERPRISES	13,855.00		5,779.00	
Recovery of Electricity Charges- Beauty Parlour	16.00		-	
Recovery of Electricity Charges-US Bakers	46,404.31		-	
Recovery of Electricity Charges-Cafeteria	44,098.00		-	
Recovery of Electricity Charges-A to Z	1,902.76		-	
Recovery of Electricity Charges	4,65,736.00		-	
Recovery of Electricity Charges -Jaiswal Canteen	7,305.00	**29,77,325.40**	5,10,108.00	**24,69,412.07**

Contd .....

ASSISTANT REGISTRAR (ACCOUNTS) | REGISTRAR | DIRECTOR | PRESIDENT (BOG)

Signed on: 26/06/2025

.... Contd.

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31ST MARCH 2025

AMOUNT (₹)

SCHEDULE - 12 - OTHER INCOME	CURRENT YEAR		PREVIOUS YEAR	
Recovery of Medical Contribution				
Recovery of Medical Contribution Academic-RGIPT, Jais	7,37,650.00		3,34,265.00	
Recovery of Medical Contribution Non-Academic RGIPT, Jais	2,21,067.00		1,01,225.00	
Recovery of Medical Contribution Acacdemic- AEI	-		88,550.00	
Recovery of Medical Contribution (Non-Acacdemic)- AEI	3,000.00		12,125.00	
Recovery of Medical Contribution ACA-ASSAM	1,83,600.00		-	
Recovery of Medical Contribution NON-ACA-ASSAM	28,450.00		-	
Recovery of Medical Contribution EIB, Bangalore	62,400.00	**12,36,167.00**	28,636.00	**5,64,801.00**
Recovery of License Fee/Rent				
Recovery of License Fee Academic	11,69,704.00		13,47,588.00	
Recovery of License Fee Non Academic	5,81,877.00		6,38,639.00	
Recovery of License Fee- Ph.D Students	1,53,867.00		1,52,400.00	
Recovery of License Fee- S.R. Enterprises	18,929.00		12,600.00	
Recovery of Licence Fees-Jaiswal Canteen /ATOZ SHOP	9,750.00		-	
Recovery of Licence Fees- Beauty Parlour	1,630.00		-	
Recovery of Licence Fees- Cafeteria	23,000.00		-	
Recovery of Hostel Rent	13,600.00		-	
Rent from BOB	45,998.00		4,200.00	
Recovery of Licence Fees	98,250.00		1,950.00	
Recovery of Licence Fees-US Bakers	13,300.00	**21,29,905.00**	41,470.00	**21,98,847.00**

Contd .....

ASSISTANT REGISTRAR (ACCOUNTS) | REGISTRAR | DIRECTOR | PRESIDENT (BOG)

Signed on: 26/06/2025

.... Contd.

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31ST MARCH 2025

AMOUNT (₹)

SCHEDULE - 12 - OTHER INCOME	CURRENT YEAR		PREVIOUS YEAR	
4. Miscellaneous Income				
Excess Provision written Back	3,400.00		2,28,452.11	
Guest House Income	26,66,370.00		32,77,953.00	
Admission Processing fee	26,65,500.00		24,41,000.00	
Convocation Fee- AEI, Assam	1,00,500.00		2,10,000.00	
Convocation Fees- RGIPT, Jais	2,02,000.00		2,02,000.00	
Tender fees Jais	60,000.00		27,000.00	
Sponsorship Fee - Assam	2,00,000.00		1,00,000.00	
Income from Sample analysis	8,06,801.00		71,605.00	
Other income - Bangalore	13,051.00		46,955.72	
Other income - Assam	40,202.30		29,476.59	
Other Income (Grant Overhead)	53,39,260.00		32,27,095.00	
Professional Fee for Consultancy	-		6,43,382.00	
Liquidated Damages/ Penalties	20,75,649.00		26,31,922.00	
Registration fees fom Confrence/Seminars	2,33,180.00		-	
Other income and recoveries	11,01,916.47		10,98,698.76	
Bonafide, Transcript & Migration Fees From Students- Assam	-	**1,55,07,829.77**	-	**1,42,35,540.18**
TOTAL		**2,24,94,787.17**		**1,99,85,000.25**

ASSISTANT REGISTRAR (ACCOUNTS) **REGISTRAR** **DIRECTOR** **PRESIDENT (BOG)**

Signed on: 26/06/2025

NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS

SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31ST MARCH 2025

AMOUNT (₹)

SCHEDULE - 13 - ACADEMIC EXPENSES	CURRENT YEAR		PREVIOUS YEAR	
Honorarium to Visiting Faculties	19,84,369.00		15,47,352.75	
Book Grant, e-Journal Charges, Magazines & Academic Softwares	65,27,990.80		80,29,398.12	
Convocation Expenses-Jais	19,26,284.00		15,05,048.00	
Convocation Expenses- Assam	7,24,228.00		11,03,405.00	
IIT-JEE Fees	19,47,000.00		18,00,000.00	
Student Welfare	42,21,280.00		29,41,571.00	
Scholorship & Stipend	5,74,81,414.00		5,36,11,952.00	
Workshop & Training	8,681.00		2,66,100.00	
Cultural & Sports Activities	52,06,344.00		13,66,636.00	
Repairs & Maintenance (Equipment)	36,72,984.00		59,16,754.00	
Lab Consumables	26,29,131.00		35,25,438.00	
Student Contingency/ Admission/ Orientation Expenses	29,88,149.00		17,29,999.00	
Cummulative Professional Development Allowance	44,91,534.00		34,26,215.00	
Training & Placement Exp.	8,81,703.00		86,917.00	
Research Grant - Faculty	1,95,332.00		14,80,021.00	
Seed Grant	17,99,579.00	9,66,86,002.80	51,53,487.00	9,34,90,293.87
TOTAL		**9,66,86,002.80**		**9,34,90,293.87**

ASSISTANT REGISTRAR (ACCOUNTS) | **REGISTRAR** | **DIRECTOR** | **PRESIDENT (BOG)**

Signed on: 26/06/2025

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)

NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS

SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31ST MARCH 2025

AMOUNT (₹)

SCHEDULE - 14 - ESTABLISHMENT EXPENSES	CURRENT YEAR		PREVIOUS YEAR	
a) Salaries & Allowances	28,04,62,020.00		26,85,47,941.00	
b) Children Education Allowance	34,91,728.00		-	
c) Man Power Hiring	6,95,66,176.00		6,27,28,304.00	
d) Contribution to Provident Fund , NPS & Others	3,56,27,203.00		3,34,81,204.00	
e) Contribution to Other Fund	-		-	
f) Provision on Employees Retirment and Terminal Benefits (Gratuity & Leave Encashment)	4,16,90,004.00		3,34,23,124.00	
g) **Others**				
Honorariun/ Compensation	12,08,373.00		15,74,319.00	
Medical Reimbursement	51,60,560.00		23,28,739.00	
Newspaper/ Mobile Exp Reimbursement	15,27,384.00		10,06,484.00	
Staff Welfare Exp.	-		-	
Relocation Expenses	-		1,76,911.00	
TOTAL		**43,87,33,448.00**		**40,32,67,026.00**

ASSISTANT REGISTRAR (ACCOUNTS) **REGISTRAR** **DIRECTOR** **PRESIDENT (BOG)**

Signed on: 26/06/2025

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)

NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS

SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31ST MARCH 2025

AMOUNT (₹)

SCHEDULE - 15 - OTHER ADMINISTRATIVE EXPENSES	CURRENT YEAR		PREVIOUS YEAR	
Electricity and Power	4,01,66,531.00		3,82,62,117.00	
Repairs & Maintenance (Building & Other)	97,55,490.00		80,19,157.00	
Insurance	2,69,571.00		2,03,591.00	
Repairs & Maintenance (Housekeeping & Office Expenses)	1,29,77,769.00		1,18,68,071.00	
Security Service Charges	2,24,28,045.00		1,80,34,982.00	
Rent, Rates and Taxes	64,28,333.00		75,67,340.00	
Vehicles Running and Maintenance	33,72,603.00		31,32,091.87	
Postage, Telephone and Communication Charges	12,19,728.00		11,32,117.00	
Printing , Stationary and Publication	24,63,763.00		27,49,863.00	
Travelling and Conveyance Expenses	63,74,330.00		57,71,907.00	
Legal & Arbritation Expenses	5,70,530.00		86,85,190.00	
Conference & Meetings Expenses	17,04,035.00		30,55,617.00	
Professional & Consultancy Charges	6,72,442.00		22,82,330.00	
Advertisement and Publicity	51,19,951.00		47,83,557.00	
Guest House Expenses	25,19,614.00		26,19,343.00	
Bank Charges	2,26,998.72		1,75,490.73	
Website Expenses	3,14,328.00		2,09,227.00	
CAG Audit Fees	5,30,640.00		5,50,000.00	
Doctor Fees	36,20,710.20		39,12,306.00	
Bad and doubtful debts	-		6,20,104.81	
Mis Office Exp	45,83,825.53		54,13,386.00	
DG Set Running	24,98,221.00		0.00	
TOTAL		12,78,17,458.45		13,90,47,788.41

ASSISTANT REGISTRAR (ACCOUNTS) | REGISTRAR | DIRECTOR | PRESIDENT (BOG)

Signed on: 26/06/2025

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)

NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS

SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31ST MARCH 2025

AMOUNT (₹)

SCHEDULE - 16 - PRIOR PERIOD ADJUSTMENT	CURRENT YEAR		PREVIOUS YEAR	
INCOME				
Interest Income on FDR	28,762.00		-	
Security Deposit	3,27,000.00		30,40,407.00	
Capital Fund Adjustment Deprecaition Jais	-		4,29,45,754.00	
Investment in Sweep sbi RBL 1040	-		1,61,392.00	
CAG Audit Fees	-		13,59,975.00	
Fee & Subscriptions	-		17,63,228.00	
Overhead Reversal (IDF)	34,080.00		30,46,900.00	
Fees From Student	-		14,000.00	
Repair & Renovation-CPWD Kanpur	-		7,48,524.00	
PL Tondon (Lab Equipment)	-		9,91,700.00	
Liquidated Damages	-		495.00	
Investment in Sweep Allahabad Bank 1170	-		1,00,58,353.00	
Interest on Retirement Benefit Fund with LIC	66,71,788.63		-	
Advance Adjustment	1,47,392.00		-	
Others	86,942.00	**72,95,964.63**	10,00,792.30	**6,51,31,520.30**

Contd .....

ASSISTANT REGISTRAR (ACCOUNTS) **REGISTRAR** **DIRECTOR** **PRESIDENT (BOG)**

Signed on: 26/06/2025

.... Contd.

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)

NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS

SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31ST MARCH 2025

AMOUNT (₹)

SCHEDULE- 16- PRIOR PERIOD ADJUSTMENT	CURRENT YEAR		PREVIOUS YEAR	
EXPENDITURE				
Travelling Expenses			58,646.00	
Fee & Subscriptions	14,24,684.00		10,26,795.17	
Liquidated Damages	46,920.00		75,406.00	
Security Deposit	30,060.00		5,66,000.00	
Mess Fee refund	-		10,69,374.00	
Electricity Charges	-		15,524.00	
Telephone & Communication Charges	-		11,326.00	
Lab Consumables	23,730.00		4,535.00	
NPS Contribution	1,06,268.00		2,29,344.00	
Mess Advance	-		2,99,26,841.00	
Interest & Penality (NCC)	-	**16,31,662.00**	17,09,82,871.00	**20,39,66,662.17**

Contd .....

ASSISTANT REGISTRAR (ACCOUNTS) **REGISTRAR** **DIRECTOR** **PRESIDENT (BOG)**

Signed on: 26/06/2025

.... Contd.

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31ST MARCH 2025

AMOUNT (₹)

SCHEDULE- 16- PRIOR PERIOD ADJUSTMENT	CURRENT YEAR		PREVIOUS YEAR	
EXPENDITURE				
Advertisement & Publicity	-		30,000.00	
Project Overhead	16,69,244.00		3,18,585.00	
Insurance	3,118.00		8,067.00	
Excess Fee Due Reversed	82,047.00		3,50,000.00	
Retention Money Adjsutment	9,94,629.00		0.00	
Mess Fees Transferred to Student Welfare Fund	99,19,000.00		0.00	
Fees Refund (withdrawn)	2,97,835.00		56,70,524.84	
Consultancy & Professional Fees	-		26,550.00	
Medical Reimbursment	-		25,662.00	
Honorarium	-		1,99,998.00	
CAG Audit Fees	3,45,771.00		18,88,075.00	
PL Tondon (Lab Equipment)	12,273.15		9,91,700.00	
Repair & Maintenance	36,554.00		7,22,497.00	
Assets	3,79,067.00		-	
Caution Money	14,500.00		-	
IGST Liability	220.00		-	
Vehicle Running	95,711.00		-	
Training	33,390.00		-	
Ambulance	1,26,094.00		-	
Reimbursement	17,700.00		-	
other	1,18,741.27	1,41,45,894.42	7,959.00	1,02,39,617.84
NET PRIOR PERIOD EXPENDITURE		**-84,81,591.79**		**-14,90,74,759.71**

ASSISTANT REGISTRAR (ACCOUNTS) | REGISTRAR | DIRECTOR | PRESIDENT (BOG)

Signed on: 26/06/2025

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31st MARCH 2025
SCHEDULE '17'-SIGNIFICANT ACCOUNTING POLICIES

1. **Accounting Convention**

   The financial statements are prepared under dual entry system under the historic cost convention and on-going concern concept, following the accrual method of accounting unless otherwise stated herein.

2. **Inventory Valuation**
   Stores materials including stationery held at year end are valued at cost adopting FIFO method.

3. **Fixed Assets**
   - 3.1 Fixed assets are stated at the cost of acquisition, less accumulated depreciation thereon and impairment loss, if any. The cost includes inward freight, duties and taxes, installation charges and other directly attributable expenses related to their acquisition.
   - 3.2 Assets created out of research grants normally remain as property of the sponsoring authority in terms of sanction letters.
   - 3.3 Land includes acquisition cost, registration and other expenses and is capitalized on taking possession under Schedule-6 "Tangible Assets". However interim payments made on demand to Government Authorities for the purpose of acquisition of land will be treated as Capital Advance and will be grouped under Schedule-9 "Current Assets".
   - 3.4 Capital Work-In-Progress: Expenses incurred towards building under construction / civil work in progress / equipment received but not installed/ running bills payments during project construction stage towards contracts, consultancy services and project management / administrative expenses are grouped under Capital Work-In-Progress.
   - 3.5 The assets which are unserviceable, condemned or out of use are written off only after approval by the Competent Authority of the Institute.

ASSISTANT REGISTRAR (ACCOUNTS)	REGISTRAR	DIRECTOR	PRESIDENT-BOG

Signed on : 26/06/2025

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31st MARCH 2025

SCHEDULE '17'-SIGNIFICANT ACCOUNTING POLICIES

4. Method of Depreciation on Fixed Assets

4.1 Depreciation on fixed assets is provided on Straight Line Method (SLM) on pro-rata basis at the rates arrived at based on the estimated useful life of the assets. In respect of assets fully depreciated and are in use, a residual value of Rs. 1.00 is retained in the books till it is discarded.

4.2 Each Fixed asset costing Rs. 5000/- and below is fully depreciated in the year of acquisition.

4.3 On the recommendation of the Finance Committee, the BoG in 68th meeting resolved to revise the useful life and rate of depreciation of fixed assets (Tangible and Intangible) with effect from Financial Year 2021-22. The approved useful life of asset and rates of depreciation are as follows:

I. Useful Life and Rate of Depreciation on Fixed (Tangible) Assets

Sl. No.	Tangible Assets	Useful Life (In years)	Rate of Depreciation (In %)
1	Land	-	0
2	Site Development	-	0
3	Buildings	50.00	2.00
4	Roads & Bridges	50.00	2.00
5	Tube wells & Water Supply	50.00	2.00
6	Sewerage & Drainage	50.00	2.00
7	Electrical Installation and Equipment	20.00	5.00
8	Plant & Machinery	20.00	5.00
9	Scientific & Laboratory Equipment	12.50	8.00
10	Office Equipment	13.33	7.50
11	Audio-Visual Equipment	13.33	7.50
12	Computers & Peripherals	05.00	20.00
13	Furniture, Fixtures & Fittings	13.33	7.50
14	Vehicles	10.00	10.00
15	Library Books & Scientific Journals	10.00	10.00

ASSISTANT REGISTRAR (ACCOUNTS) | REGISTRAR | DIRECTOR | PRESIDENT-BOG

Signed on : 26/06/2025

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31st MARCH 2025
SCHEDULE '17'-SIGNIFICANT ACCOUNTING POLICIES

II. Amortization Period and Amortization Rate on Intangible Assets

Sl. No.	Intangible Assets	Amortization Period (In years)	Amortization Rate
1	E-Journals	02.50	40.00
2	Computer Software	02.50	40.00
3	Patents and Copyrights	09.00	11.11

5. Merging of Contingent Fund with Institute's Reserve Fund

A Depreciation Fund was initially created by transferring equivalent amount of depreciation subject to excess of income over expenditure from Income & Expenditure Account, to facilitate suitable funding for the replacement of assets. The BoG in its 62nd meeting resolved to rename the Depreciation Fund as Contingent Fund. The Board of Governors (BoG) further deliberated on the matter in its 68th meeting and resolved the following:

i. The fund shall be called **RESERVE FUND** of the Institute. General Reserve shall be known as Reserve Fund.
ii. The amount of Contingent Fund being merged with Reserve Fund shall be utilized only for capital works of the Institute.
iii. The Reserve Fund shall be used for capital works, however, in case of administrative exigencies, reserve funds may be utilized for recurring expenses with the approval of BoG.
iv. The excess of income over expenditure of each financial year shall be transferred to **RESERVE FUND** of the Institute.

6. Miscellaneous Expenditure

6.1 All expenses relating to renovation of rented premises including playgrounds/ courts are accounted in Income & Expenditure Account in the year of incurrence.

6.2 Deferred revenue expenditure on account of RGIPT Brand or intangible (E-Journals, Computer Software and Patent & Copyrights) assets shall be written off as per Amortization Policy of Institute.

ASSISTANT REGISTRAR (ACCOUNTS)	REGISTRAR	DIRECTOR	PRESIDENT-BOG

Signed on : 26/06/2025

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31st MARCH 2025

SCHEDULE '17'-SIGNIFICANT ACCOUNTING POLICIES

7. Accounting Policy on Lease as per Accounting Standard-19

On the recommendation of Finance Committee, the BoG in its 68th meeting considered the Accounting Policy on Lease as per Accounting Standard-19 to implement it with effect from Financial Year 2021-22. The approved policy is as follows:

Operating Leases (As per Para-23 of Accounting Standard- 19)

Para-23 of AS-19: The Lease payment under an operating lease shall be recognized as an expense in the statement of Income & Expenditure on a Straight-Line Basis.

Para-24 of AS-19: For operating lease, lease payments (excluding costs for services such as insurance and maintenance) shall be recognized as an expense in the statement of Income & Expenditure on a Straight-Line Basis.

Para-25 of AS-19: The lease shall be disclosed as under:

(a) Future minimum lease payments for the Operating Lease for the following periods:

(i) not later than one year,
(ii) later than one year and not later than five years,
(iii) later than five years.

8. Capital Fund Grant

8.1 Budgetary Support from Government of India and Grant from OIDB / Promoting entities for campus project work are accounted on receipt basis and grouped under "Capital Fund." Interest earned if any, from bank on capital fund account/ investment is accounted in Capital Fund account.

8.2 Depreciation charged on assets created out of Capital fund are treated as Deferred Income and transferred to Income and Expenditure Account every year on systematic basis over useful life of the assets.

8.3 The fund utilized for creating non-depreciable assets like land is treated as Capital Reserve.

ASSISTANT REGISTRAR (ACCOUNTS)	REGISTRAR	DIRECTOR	PRESIDENT-BOG

Signed on : 26/06/2025

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31st MARCH 2025
SCHEDULE '17'-SIGNIFICANT ACCOUNTING POLICIES

9. Corpus fund

9.1 Corpus Fund received is accounted on receipt basis and is grouped under Corpus Fund. Interest earned from investment of Corpus Fund in Fixed Deposit Receipts (FDRs) with banks are utilized for meeting the recurring expenses.

9.2 Interest earned from investment of Corpus Fund is accounted in Income & Expenditure Account and the surplus interest (if any) after meeting the recurring expenses, as lying invested in Fixed Deposits Receipts with Banks.

10. Foreign Currency Transactions

10.1 Transactions denominated in foreign currency are accounted at the exchange rate prevailing as at the date of such transactions.

11. Provisions, Prepaid

11.1 All known liabilities and other financial obligations exceeding Rs.10,000/- up to the date of finalization of accounts are accounted for.

11.2 Pre-paid charges/expenses exceeding Rs. 10,000/- incurred during the year are carried to next year and are duly considered in relevant future period.

12. Investments

12.1 Investments are held in the form of Fixed Deposit Receipts with Scheduled Banks.

12.2 No Investments are made by the Institute in the tradable securities.

12.3 Investments are valued at cost.

13. Revenue Recognition

13.1 Interest earned on Fixed Deposits with Banks, income from Students' Fees including entrance fees and other receipts are accounted for as and when due on accrual basis and are recognized as income of the Institute. Sale of discarded assets/items etc. is accounted for on receipt basis.

ASSISTANT REGISTRAR (ACCOUNTS)	REGISTRAR	DIRECTOR	PRESIDENT-BOG

Signed on : 26/06/2025

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31st MARCH 2025
SCHEDULE '17'-SIGNIFICANT ACCOUNTING POLICIES

14. Retirement Benefits

14.1 Liability of retirement benefits i.e. Gratuity and Leave Encashment are provided on the basis of actuarial valuation.

14.2 Provisions for Gratuity and Leave Encashment are being made in books and capitalized value of Gratuity and Leave Encashment being received from previous employers of the Institute's employees, who have been absorbed in the Institution, is credited to the Provision Accounts.

14.3 Equivalent amount of provisions being made is transferred to respective Gratuity and Leave Encashment Funds of RGIPT Jais, Amethi, Assam Energy Institute (AEI), Sivasagar and Energy Institute, Bengaluru (EIB).

14.4 Investment made against these provisions are being shown as a part of "Investment Others" in a separate Schedule.

14.5 The actual payments of Gratuity and Leave Encashment are debited in the accounts to the respective provisions.

14.6 The Board of Governors in its 66th meeting resolved on the recommendation of Finance Committee for the investment of 'Leave Encashment' and 'Gratuity Funds' in LIC's New Group Leave Encashment Plan' and 'LIC's New Group Gratuity Cash Accumulation Plan' respectively for the employees of RGIPT Jais, Amethi and its centres, namely- AEI, Sivasagar and Energy Institute, Bengaluru (EIB).

15. Income Tax

15.1 The Institute income is exempted from Income Tax under the provisions of Section 10(23C) (iii) (ab) of the Income Tax Act, 1961, hence, no provision is made for Income Tax.

ASSISTANT REGISTRAR (ACCOUNTS)	REGISTRAR	DIRECTOR	PRESIDENT-BOG

Signed on : 26/06/2025

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31st MARCH 2025

SCHEDULE '17'-SIGNIFICANT ACCOUNTING POLICIES

16. Policy for Grant of Research Grant/ Seed Grant to Faculty Members

The BoG in its 71st meeting passed the policy to sanction Research Grant/ Seed Money to Faculty Members of the Institute and its centres. The major highlights of the policy are as under:

Preamble: To provide financial support to young faculty members to carry out research works and establish research laboratory, which may further lead to fetch the extramural projects from industries and funding agencies.

Research Grant: Providing assistance to outstanding collaborative research proposals received from faculty of Institute and centres with an objective to attract external fundings.

Seed Grant: Providing one-time research financial support to the newly appointed faculty in the cadre of Assistant Professor of Institute and its centres.

Funding: Interested faculty will be required to submit the research proposals to the office of Dean- Research & Development to get support under Seed Grant/ Research Grant scheme. The projects shall be approved based on the recommendation of the Evaluation Committee. The fund shall be sanctioned from the "Recurring Grant" of the Institute for various project activities. The financial support under the Seed Grant scheme shall be generally up to Rs. 10.00 Lakhs and it may be extended further depending on the genuine need of the proposal/ recommendation of the committee. In the case of the Research Grant Scheme, as such there shall not be any financial limit, however, funding for the project shall be sanctioned on the recommendation of Internal Project Evaluation Committee.

Approving Authority: The Director, RGIPT shall be Approving Authority for financial support under both the schemes.

General Guidelines: The guidelines followed in the external funded projects shall be applicable in all the projects sanctioned under the Research Grant/ Seed Grant schemes. Institutes' procurement rules shall be followed in the procurement of non-consumable and consumable items. A list of all non-consumable items procured out of Project Funds shall be handed over to the respective department after the closure of the project.

ASSISTANT REGISTRAR (ACCOUNTS)	REGISTRAR	DIRECTOR	PRESIDENT-BOG

Signed on : 26/06/2025

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2025
SCHEDULE '18'-NOTES ON ACCOUNTS

The Notes forming part of the Accounts giving inter-alia certain additional disclosures in respect of significant accounting transactions during the year and highlighting the Institute's contingent liability and capital commitment as of 31st March 2025 are as follows:

1. The Receipt and Payment Account carries the amounts of actual receipts and actual payments of the Institute during the year 2024-25. However, the recoveries under the various heads have been grossed up. e.g. salaries expenses have been raised on account of NPS, Income Tax Deductions, etc.

2. The Income & Expenditure Account and the Balance Sheet have been drawn from Receipt and Payments Account duly accounted for liabilities, prepaid expenses, advance payments and provisions as at the end of the accounting year.

3. The financial statements have been presented as per Uniform Format prescribed for non-profit Central Autonomous Bodies.

4. Previous year figures have been regrouped/rearranged in order to make them comparable with the current year figures.

5. While finalizing the Accounts for the year, necessary action has been taken, wherever applicable, to implement the recommendations of Government Audit on accounts of previous year.

6. In line with the recommended policy for non-profit organization in respect of accounting of Gross Budgetary Support (GBS) and Grants, the Institute has adopted the following significant accounting policy:

   - Budgetary Support received from Government of India and Grants received from OIDB/ promoting entities and Capital Fund (Own Contribution) for campus development are grouped under "Capital Fund" in **Schedule-1** along with the interest and other amount earned if any.

   - Amounts grouped under Corpus/Endowment Fund in **Schedule- 3** represent contribution received from Oil PSUs for meeting the recurring expenses from its interest and the transfer of excess of income over expenditure to the extent of surplus interest lying invested in Fixed Deposit Receipts from the Income & Expenditure Account.

ASSISTANT REGISTRAR (ACCOUNTS)	REGISTRAR	DIRECTOR	PRESIDENT-BOG

Signed on : 26/06/2025

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2025
SCHEDULE '18'-NOTES ON ACCOUNTS

- Depreciation on assets created out of capital funds is treated as Deferred Revenue Income and recognized in the Income and Expenditure Account every year on a systematic basis over the 'useful life' of the assets. Accordingly, Rs. 21,69,04,038.40 being the depreciation charged during the year has been transferred to Deferred Revenue Income.

7. The provisions of Payment of Gratuity Act are applicable to the Institute. Accordingly, based on Actuarial Valuation, accumulated provision for Rs. 15,94,90,558.00 has been made in the accounts towards retirement benefit for (a) Gratuity and (b) Leave Encashment, which is reflected in accounts at **Schedule-5** under 'Current Liabilities and Provisions' as of 31-03-2025.

8. During the year, excess of income over expenditure to the extent of the surplus interest lying invested in fixed deposit with banks amounting to total of Rs. 28,70,67,116.65 have been transferred to the Institute's Reserve Fund, which has been reflected under Reserve and Surplus in **Schedule-2**.

9. As per the EFC Sanction Ref. F.No. 42024/6/2012-Gen.(Vol. II) dated 16.03.2015 with regard to Revised Cost Estimate for Jais Project taken by Department of Expenditure (Ministry of Finance), it is decided that RGIPT will confine its RGIPT Jais Campus project in 47.00 acres of land only, as the acquisition of additional land by UPSIDC did not materialize. Consequent to this, the institute had applied to UPSIDC in 2015-16 for refund of advance payment of Rs. 185.00 Lakh made during previous years as per their demand, for acquisition of land. Out of the above, Rs. 143.00 Lakh was realized during the year and the balance of Rs. 41.80 Lakh is grouped under Loans & Advances on capital account. According to UPSIDC, Rs. 41.80 Lakh is not payable since the amount is deducted against their standard deduction policy for land acquisition. RGIPT is following up with UPSIDC for refund on the grounds that the acquisition of land did not take place, hence, there is no deduction applicable. Meanwhile, provision for doubtful debt of Rs. 41.80 Lakh has been made in books from 2017-18 which is reflecting under Schedule-5(B), on the recommendation of Audit.

ASSISTANT REGISTRAR (ACCOUNTS)	REGISTRAR	DIRECTOR	PRESIDENT-BOG

Signed on : 26/06/2025

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2025
SCHEDULE '18'-NOTES ON ACCOUNTS

10. The contract for civil & structural work awarded in June 2010 to M/s Punj Lloyd Ltd for an estimated contract value of Rs.179,89,04,329/- had been terminated in view of the contractor's failure to perform as per the agreed schedule. Prior to termination, contractor raised certain claims not payable under the contract and on Institute's refusal to pay the claimed amount, the contractor invoked arbitration. During the previous year the Current Liabilities and Provisions includes Rs. 3,27,27,202/-, the unpaid balance amount against the value of work done by the contractor and retention money of Rs. 35,04,000/- the same along with escalation advance of Rs. 1,00,00,000/- adjusted and the balance amount of Rs. 2,62,31,202/- has been transferred to General Reserve as per the approval of BOG. This is also in compliance with CAG para issued.

11. MoPNG in its meeting held on 14.02.2014 proposed to set up a centre of RGIPT at Bangaluru. The foundation stone for this centre was laid at Kambalipura Village in Rural Bangaluru District, Karnataka by then Minister PNG on 05.03.2014. Meanwhile, a fund of Rs. 2000.00 lakh has been paid by OIDB to RGIPT as an advance (vide letter No.4/15/2017-OIDB dated18.07.2017 for construction of compound wall and other miscellaneous expenses for setting up of Energy Institute, Bengaluru. A further fund of Rs. 3000.00 lakhs was also paid by OIDB to RGIPT (vide letter No.J-25021/6/2017-Gen/CA dated 24.07.2018) to commence academic courses from temporary campus. Since the amount has been received as an advance, the same has been reflected under **Schedule-5** under Current Liabilities.

12. Contingent Liabilities

a) An arbitration award for arrear salary (approx. Rs. 4.24 lakhs plus interest) against a claim from an ex-employee Prof. R. K. Suri is under litigation in the Court of Law and no liability has materialized as on 31.03.2025.

b) An amount of Rs. 3.59 Crore is being kept as Lien Marked FDR as Collateral Security against opening of Letter of Credits for Equipment purchase as on 31.03.2025.

ASSISTANT REGISTRAR (ACCOUNTS)	REGISTRAR	DIRECTOR	PRESIDENT-BOG

Signed on : 26/06/2025

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2025
SCHEDULE '18'-NOTES ON ACCOUNTS

13. Capital Commitments

The capital commitments as on 31.03.2025 was NIL.

14. Immovable Asset/ Land

1. The Rajiv Gandhi Institute of Petroleum Technology (RGIPT), Jais, Amethi had purchased a land measuring 18.167 Hectares (44.89 acres) at Village- Mubarakpur Mukhatia, Bahadurpur, Post- Harbanshganj, Tehsil- Tiloi, Jais, Amethi, Uttar Pradesh from M/s Indian Oil Tanking Ltd (A registered company incorporated under the Companies Act, 1956) vide Sale Deed dated 18th February 2008. However, the Mutation of land in favour of RGIPT is pending with the Court of Tehsildar, Tiloi, Dist- Amethi.

2. The Government of Assam had allotted a land measuring 100.00 acres at Village- Gohain Gaon, Dhai Ali Road, Akhoiphutia, Sivasagar-785697, Assam to Rajiv Gandhi Institute of Petroleum Technology (RGIPT) to establish its centre, namely- Assam Energy Institute (AEI), Sivasagar.

3. The Government of Karnataka has allotted a land on lease measuring 150 acres at Survey No- 127-P of Kambalipura Village, Soolibele Hobli, Hoskote Taluk, Bengaluru Rural District, Karnataka to establish its centre, namely- Energy Institute (EIB), Bengaluru. The lease of land is valid up to 22-03-2026. The Institute is required to utilize at least 50% of allotted land as per Lease cum Sale Agreement dated March 23, 2018, and thereafter land shall be transferred to the Institute.

ASSISTANT REGISTRAR (ACCOUNTS)	REGISTRAR	DIRECTOR	PRESIDENT-BOG

Signed on : 26/06/2025

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2025
SCHEDULE '18'-NOTES ON ACCOUNTS

The details of above-mentioned land are as follows:

Sl. No.	Particulars	Book Value as on 31.03.2025	Leasehold/ Freehold	Area of Land
1	Rajiv Gandhi Institute of Petroleum Technology (RGIPT), Jais, Amethi, **Uttar Pradesh**	4,47,03,296.59	Freehold	18.167 Hectares (44.89 acres)
2	Assam Energy Institute (AEI), Sivasagar, **Assam**	60,97,535.00	Freehold	100 acres
3	Energy Institute (EIB), Bengaluru, **Karnataka**	150.00	Leasehold	150 acres

Accordingly, an amount of Rs. 5,08,00,831.59 has been shown as Capital Reserve under **Schedule-2**.

15. Lease

The Institute has taken premises on lease (operating lease) at Amethi, Sivasagar and Bengaluru for the purpose of Boys and Girls Hostels and for transit campus respectively. The details of premises taken on lease are as follows:

a. Not later than one year:

Sl. No.	Premises taken on Lease	Name of the Lessees	Lease Start Date	Monthly Rent	Lease Expiry
1.	Transit campus of EIB, Bengaluru	Sri Venkateshwara College of Engineering, Bengaluru	01.07.2023	2,50,000.00	30.06.2024
2.	Accommodation for B.Tech. Students (CS & EE)	Dwelve Spaces Private Ltd.	01.09.2023	7,76,216.00	31.05.2024

ASSISTANT REGISTRAR (ACCOUNTS) | REGISTRAR | DIRECTOR | PRESIDENT-BOG

Signed on : 26/06/2025

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2025
SCHEDULE '18'-NOTES ON ACCOUNTS

b. Later than one year and not later than five years:

Sl. No.	Premises taken on Lease	Name of the Lessees	Lease Start Date	Monthly Rent	Lease Expiry
1.	Boys Hostel-7, Sivasagar	Bitul Baruah	01.09.2019	30,000.00	30.06.2024
2.	Girls Hostel-1, Sivasagar	Ruprekha Baruah	01.09.2019	60,000.00	30.06.2024
3.	New Boys Hostel-1, Sivasagar	Kabir Ahmed Bhuyan	01.03.2021	94400.00	30.06.2024
4.	Transit campus of EIB, Bengaluru	Sri Venkateshwara College of Engineering, Bengaluru	01.07.2022	1,25,000.00	30.06.2024
5.	Boys Hostel for MBA students	Footwear Design & Development Institute (FDDI), Fursatganj, Amethi	28.07.2023	1,80,000.00	31.05.2025

16. Hiring out of Fixed Asset of Lease (GFR Rule No-212)

a. Not later than one year:

Sl. No.	Premises Given on Lease	Name of the Lessees	Lease Start Date	Monthly Rent	Lease Expiry
1.	Cafeteria	M/s Shahmau Enterprises	22.03.2024	2000.00	21.02.2025

b. Later than one year and not later than five years:

1.	Beauty Parlor, Commercial Complex, RGIPT	Smt. Suman Modanwal, Jais, Amethi	01.09.2023	1,470.00	30.06.2025
2.	Bakery Shop, Commercial Complex, RGIPT	M/s U. S. Bakers, Raebareli	22.09.2023	1,400.00	21.08.2024
3.	Canteen Shop	M/s Jaiswal Canteen	03.11.2021	750.00	16.05.2025

ASSISTANT REGISTRAR (ACCOUNTS) | REGISTRAR | DIRECTOR | PRESIDENT-BOG

c. Later than five years:

Signed on : 26/06/2025

1	Bank of Baroda in Commercial Complex, RGIPT, Jais	Bank of Baroda	03.05.2017	3,770.00	02.05.2027
2	Post Office, Commercial Complex, RGIPT	India Post	Allotted free of cost.		
3	Grocery Shop, Commercial Complex, RGIPT	M/s S. R. Enterprises, Raebareli	26.02.2019	1544.00	28.02.2026
4	Stationary Shop	M/s A to Z Shop	30.08.2019	750.00	16.05.2025

17. Sundry Debtors Confirmation

The Institute raises invoices against the services provided to various Oil PSUs and other bodies. These are shown as "Debtors" under Schedule-9. The "Debtors" confirmation is obtained through emails. The concerned organizations acknowledge the same and remit the funds against these Invoices. Accordingly, every year the Institute receives the balance of receivable money against the "debit" balances.

18. Conversion of Advance to WIP

During the year Capital Advances of Rs. 1,87,19,25,926/- related to ongoing work transferred to Fixed Assets under work in progress to the redress the observation of CAG para.

19. Reclassification of Air Conditioner

To redress the observation of the CAG audit para regarding the classification of air conditioners under Schedule 6 "Fixed Assets" of the annual accounts, the nomenclature of the asset has been revised from "Air Conditioner" to "High Capacity Chiller Plant." This change ensures accurate classification and better representation of the nature and capacity of the installed system, in line with the applicable accounting and audit guidelines.

20. Security Deposit with BESCOM

To redress the observation of the CAG audit para regarding the security deposit with BESCOM the amount of Rs. 3,27,000/- has been transferred to security deposit.

ASSISTANT REGISTRAR (ACCOUNTS) **REGISTRAR** **DIRECTOR** **PRESIDENT-BOG**

21. Creation of Fixed Assets from WIP

Signed on : 26/06/2025

To redress the observation of the CAG audit para regarding the creation of fixed assets from WIP an amount of Rs. 9,18,60,205/- has been transferred to "Building on leasehold land Bangaluru". Further an amount of Rs. 40,71,170/- has also been transferred from WIP to fixed assets pertaining to track and field at RGIPT.

22. Disclosure of Debtors

To redress the observation of the CAG audit para regarding the separate disclosure for Debts outstanding for a period of exceeding 6 month has been made in Schedule 9 current assets.

23. Project Closed

To redress the observation of the CAG audit para regarding the closure of projects pertains to static balance since 2021-22 has been closed in respect of which closure report has been submitted to the sponsoring agencies.

24. Stock of Medicine

To redress the observation of the CAG audit para regarding the closing stock of Medicine, stock of medicine has been updated in annual accounts as on 31.03.2025.

25. Children Education Allowance

To redress the observation of the CAG audit para regarding the children education allowance the same has been separately disclosed under "Schedule 14 (Establishment Expenses).

26. Investment of Endowment fund

To redress To address the observation raised in the CAG Audit Para regarding the classification of investments related to the Endowment Fund, the necessary disclosure has been revised. Accordingly, an amount of Rs. 560.51 crores has been correctly reclassified and disclosed under Schedule-7 (Investments – Earmarked/Endowment Fund). The remaining balance of Rs. 23.29 crores, which is held as bank balance, continues to be reflected under Schedule-9 (Current Assets/Loans & Advances).

27. Separate Balance sheet of NPS

To redress the observation of the CAG audit para regarding the preparation of separate Balance Sheet of NPS the same has been prepared and enclosed with Annual Accounts.

ASSISTANT REGISTRAR (ACCOUNTS)	REGISTRAR	DIRECTOR	PRESIDENT-BOG

Signed on : 26/06/2025

अनुलग्नक 2

एस.ए.एस. रिपोर्ट 2024-25

विद्यारत्नम् महद्धनम्

राजीव गांधी पेट्रोलियम प्रौद्योगिकी संस्थान

जायस, अमेठी, उत्तर प्रदेश

भारतीय लेखापरीक्षा एवं लेखा विभाग
कार्यालय महा निदेशक लेखापरीक्षा (ऊर्जा)
नई दिल्ली

SUPREME AUDIT INSTITUTION OF INDIA
लोकहितार्थ सत्यनिष्ठा
Dedicated to Truth in Public Interest

INDIAN AUDIT & ACCOUNTS DEPARTMENT
Office of the Director General of Audit (Energy)
New Delhi

Dated:.....

To,

The Secretary to the Government of India,
Ministry of Petroleum and Natural Gas,
Shastri Bhawan,
New Delhi -110001

Subject: Separate Audit Report on the Annual Accounts of Rajiv Gandhi Institute of Petroleum Technology for the year 2024-25.

Sir,

I am to forward herewith the Separate Audit Report on the Annual Accounts of Rajiv Gandhi Institute of Petroleum Technology for the year 2024-25 along with the Annual Accounts for the year 2024-25.

The Separate Audit Report and Annual Accounts may kindly be laid on the table of both the Houses of Parliament.

Two copies of the document as presented to both the Houses of the Parliament may kindly be forwarded to this office with an intimation regarding the date(s) on which these are laid on table of both the Houses of the Parliament.

Yours faithfully,

Encl: As above.

Sd/-

(Tanuja Mittal)
Director General of Audit (Energy)

पाँचवा, छठा, सातवाँ एवं दसवाँ तल, सी.ए.जी बिल्डिंग, एनैक्सी, 10, बहादुर शाह जफर मार्ग, नई दिल्ली - 110002
5th, 6th, 7th & 10th Floor, C.A.G. Building Annexe, 10, Bahadur Shah Zafar Marg, New Delhi - 110002
Tel.: 011-23239213, 011-23239211, Email : pdaenergydl.cag@nic.in / dgaenergydl@cag.gov.in

संख्या.: **DGA(Energy) /Rep/01-139/Acs-RGIPT/2025-26/** 504 **Dated:** 31/10/2025

Copy forwarded to:

The Director, Rajiv Gandhi Institute of Petroleum Technology, Mubarakhpur Mukhetia More, Bahadurpur, Jais, Post Harbanshganj, Amethi - 229304, Uttar Pradesh alongwith Management Letter for necessary action.

Encl: As above.

Tanuja Mittal

(Tanuja Mittal)
Director General of Audit (Energy)

Opinion of the Comptroller & Auditor General of India on the Accounts of Rajiv Gandhi Institute of Petroleum Technology for the year ended 31 March 2025

Qualified Opinion

We have audited the financial statements of Rajiv Gandhi Institute of Petroleum Technology (RGIPT), which comprise the statement of financial position as at 31 March 2025, the Income & Expenditure Account and Receipts & Payment Account for the year then ended, and Schedules forming part of financial statements, including a summary of significant accounting policies under Section 19(2) of the Comptroller & Auditor General's (Duties, Powers & Conditions of Service) Act, 1971 read with Section 26 of the Rajiv Gandhi Institute of Petroleum Technology Act, 2007.

This Audit Report contains the comments of the Comptroller & Auditor General of India (CAG) on the accounting treatment only with regard to classification, conformity with the best accounting practices, accounting standards, disclosure norms, etc. Audit observations on financial transactions regarding compliance with the law, Rules and Regulations (Propriety & Regularity) and efficiency cum performance aspects, etc., if any, are reported through inspection report/ CAG's audit reports separately.

In our opinion, except for the effects of the matter described in the Basis for Qualified Opinion section of our report, the accompanying financial statements of RGIPT, read together with the accounting policies and Notes thereon and other matters mentioned in the Separate Audit Report, which follows, **give a true and fair view** of the financial position of the autonomous body as at March 31, 2025, and (of) its financial performance and its cash flows for the year then ended in accordance with uniform format of accounts/ accounting standards generally accepted in India.

Basis for Qualified Opinion

Reference is invited to the following matters:

i. Depreciation (A.1): Depreciation on additions to fixed assets was not calculated on pro-rata basis from the date of assets put to use. In addition, the value of those assets, which have exceeded their useful life, was not brought down to residual value of ₹1. Consequently, there is overstatement of Depreciation and understatement of Fixed Assets by ₹18.29 crore each.

ii. Capital Work in progress (A.2): Certain completed construction works have not been capitalized under fixed assets, leading to misclassification in the accounts and potentially affecting the proper understanding of financial statements by users. This has resulted in overstatement of Capital Works in Progress and understatement of Fixed Assets by an amount of ₹29.88 crore each.

iii. Currents Assets, Loans and Advances (A.3): Unspent balances of advances given for deposit works were not transferred to 'Current Assets, Loans, and Advances' and continued to be shown under 'Capital Works in Progress' thereby leading to misclassification of assets. This has resulted in overstatement of Capital Work in Progress and understatement of Current Assets, Loans, and Advances by an amount of ₹15.21 crore each.

The comments on the financial statements that relate to specific amounts in the financial statements/ narrative disclosures/ non-disclosure of information required to be disclosed are included in our observations in the Separate Audit Report.

We conducted our audit in accordance with CAG's auditing regulations/ standards/ manuals/ guidelines/ guidance-notes/ orders/ circulars etc. Our responsibilities are further described in the Auditor's Responsibilities for the Audit of the Financial Statements section of our report. We are independent of the autonomous body in accordance with ethical requirements that are relevant to our audit of the financial statements, and we have fulfilled our other ethical responsibilities in accordance with these requirements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our qualified opinion.

Responsibilities of Management for the Financial Statements

The management of RGIPT is responsible for the preparation and fair presentation of the financial statements in accordance with uniform format of accounts prescribed for central autonomous bodies /accounting standards generally accepted in India and for internal control as management determines is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

Auditor's Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion in accordance with CAG's auditing regulations/ standards/ manuals/ guidelines/guidance-notes/ orders/ circulars etc.

For and on behalf of the
Comptroller & Auditor General of India

Tanuja Mittal

Place: New Delhi
Date: 31/10/2025

(Tanuja Mittal)
Director General of Audit (Energy)

Separate Audit Report on the Accounts of Rajiv Gandhi Institute of Petroleum Technology for the year ended on 31 March 2025

A. Balance Sheet

1. Fixed Assets (Schedule 6): ₹689.70 crore
Depreciation: ₹165.27 crore

As per Significant Accounting Policy No. 4.1, "Depreciation on fixed assets is provided on Straight Line Method (SLM) on pro-rata basis at the rates arrived at based on the estimated useful life of the assets. In respect of assets fully depreciated and are in use, a residual value of ₹1.00 is retained in the books till it is discarded". In this regard, Audit observed that:

(i) While charging depreciation on the fixed assets, RGIPT has worked out depreciation on the gross block of assets and not considered the residual value of ₹1.00 in respect of those assets which had completed their useful lives and were being retained in the books of accounts. This issue was also raised in Separate Audit Report on the financial statements for 2023–24.

(ii) During 2024–25, RGIPT capitalised assets amounting to ₹20.94 crore on various dates whereas full year's depreciation has been charged on these additions irrespective of their date of commissioning. This is inconsistent with the accounting policy and AS-10.

The above has resulted in overstatement of 'Depreciation' and understatement of 'Fixed Assets' by ₹18.29 crore each apart from corresponding overstatement of 'Deferred Revenue Income' and understatement of 'Capital Fund' by the same amount.

2. Fixed Assets (Schedule 6): ₹689.70 crore
Capital Work in Progress: ₹268.71 crore

(i) CWIP includes an amount of ₹9.15 crore in respect of the construction work which was executed by CPWD, Guwahati and completed and handed over to RGIPT in May 2024.

(ii) Similarly, CWIP also includes an amount of ₹20.73 crore towards the construction work of Additional Building at Energy Centre, Sivasagar, Assam which was completed and handed over to RGIPT in July 2024.

The above should have been classified as Fixed Assets in accordance with provisions of AS-10 (Property, Plant & Equipment) instead of including under CWIP.

This has resulted in overstatement of CWIP and understatement of Fixed Assets by an amount of ₹29.88 crore each apart from non-charging of depreciation thereon.

3. Current Assets, Loans and Advances (Schedule 9): ₹338.51 crore

Above does not include an amount of ₹15.21 crore (₹2.07 crore + ₹13.14 crore) paid by RGIPT as advance for deposit works to the Executing Agencies (CPWD, Amethi and CPWD, Assam) which, as per progress report submitted by the agencies, had not been utilized as on 31 March 2025. The same has, however, been treated as CWIP instead of Advance.

This has resulted in overstatement of CWIP and understatement of 'Current Assets, Loans, and Advances' by an amount of ₹15.21 crore each.

B. General

1. Non-disclosure of details of long pending TDS receivables

As per Uniform Format of Accounts for Central Autonomous Bodies, significant items under "Advances and Other Amounts Recoverable" which are disputed, long pending, or doubtful of recovery are required to be distinctly disclosed in the Notes to Accounts with suitable explanatory remarks.

However, despite the major portion of TDS receivable of ₹7.03 crore pertaining to earlier years and remaining unrealised for more than a decade being under reassessment proceedings presently, RGIPT has not disclosed these facts in the Notes to Accounts.

2. Non-compliance of the provisions of RGIPT First Statutes, 2009

As per the RGIPT Act, 2017 and RGIPT First Statutes, 2009, the Board of Governors of RGIPT shall ordinarily meet four times during a calendar year. Further, there shall not be gap of more than three months between two consecutive meetings.

However, RGIPT convened three Board meetings during the CY 2024 (viz., 29 April 2024, 6 August 2024 and 22 November 2024). Further, the interval between the 73rd Board meeting (5 December 2023) and the 74th (29 April 2024) Board meeting exceeded the stipulated maximum gap of three months.

3. Non-disclosure of Capital Commitment

As on 31 March 2025, RGIPT had ongoing works at its Jais Campus (AA&ES ₹106.89 crore, expenditure ₹65.19 crore), Assam Centre (AA&ES ₹114.10 crore, expenditure ₹62.84 crore) and Bengaluru Centre (AA&ES ₹25.19 crore, expenditure ₹15.83 crore). Thus, as against total AA&ES of ₹246.18 crore, an amount of ₹143.86 crore was spent, leaving unexecuted balance commitments of ₹102.32 crore. However, RGIPT did not disclose any Capital Commitments and shown the same in Notes to Accounts as "NIL".

Thus, Notes to accounts are deficient to such extent.

4. Non-disclosure of Interest pertaining to advance from OIDB

RGIPT has shown the advance of ₹50 crore received from OIDB under Schedule 5 – Current Liabilities and Provisions since 2018-19. However, OIDB had demanded the refund of the advance along with interest thereon from time to time and RGIPT has taken up the matter with MoP&NG for conversion of this amount into grant. Since the matter has been pending since long, the facts in this regard should have been adequately disclosed in the Notes to Accounts. The Notes to Accounts are deficient to include such disclosure.

5. No significant Accounting Policy for treatment and utilization of interest income from Endowment funds

During the year 2024-25, substantial investments were made by RGIPT in Fixed Deposits under Endowment Funds, viz., ₹303.88 crore in respect of Jais and ₹256.62 crore in respect of Assam. Being endowment funds, these FDRs were in restrictive nature and not available for use on other purposes. However, the interest income earned by RGIPT on these investments has been recognized as income in the Income and Expenditure Account directly and utilized to meet the Institute's recurring operational expenses without appropriate fund-

wise segregation or compliance with donor restrictions. Further, no specific accounting policy was formulated by RGIPT for treatment of interest income earned on such funds.

C. Management Letter

Deficiencies which have not been included in the Separate Audit Report have been brought to the notice of the Management through a Management Letter issued separately for remedial/ correction action.

D. Assessment of Internal Controls

(i) Adequacy of Internal Control System: Internal Control system is commensurate with the size and nature of activities of the Entity.

(ii) Adequacy of Internal Audit System: There is an Internal Audit Wing in RGIPT which submits its reports to the Registrar, RGIPT. The Internal Audit has been conducted up to 31 March 2025.

(iii) System of Physical verification of fixed assets: Physical Verification of fixed assets is carried out by a Committee every year and same has been completed up to 2024-25.

(iv) System of Physical verification of Inventory: Physical Verification of consumables is carried out by a Committee every year and completed up to 2024-25.

(v) Regularity in payment of Statutory Dues: The income of RGIPT is exempt from Income Tax. RGIPT is regular in payment of statutory dues applicable.

(vi) Other matters relating to functioning of the Entity: No significant risk perceived.

E. Grants-in-aid

Out of the Grants-in-aid of ₹189.33 crore for capital assets (comprising unspent opening balance of ₹180.00 crore from previous year as given by the Management, amount received during the year of 'Nil' and interest earned ₹9.33 crore), RGIPT could utilize a sum of ₹148.95 crore during the year leaving a balance of ₹40.38 crore as unutilized grant as on 31 March 2025.

भारतीय लेखापरीक्षा एवं लेखा विभाग
कार्यालय महा निदेशक लेखापरीक्षा (ऊर्जा)
नई दिल्ली

SUPREME AUDIT INSTITUTION OF INDIA
लोकहितार्थ सत्यनिष्ठा
Dedicated to Truth in Public Interest

INDIAN AUDIT & ACCOUNTS DEPARTMENT
Office of the Director General of Audit (Energy)
New Delhi

Dated:.....

To,
The Director,
Rajiv Gandhi Institute of Petroleum Technology,
Jais, Amethi,
Uttar Pradesh

Subject: Management letter- Deficiencies noticed in accounting records

Sir,

We have audited the annual accounts of Rajiv Gandhi Institute of Petroleum Technology, Jais, Amethi, Uttar Pradesh for the year 2024-25 and have issued the Separate Audit Report thereon vide letter dated 31-10-2025. During the course of audit, the following deficiencies were noticed which were relatively of a minor nature and were therefore, not included in the Separate Audit Report. These are being brought to your notice for taking corrective and remedial action: -

1. It may be ensured that accounting treatment for transfer of surplus amount is done in compliance with the uniform format of accounts. (DSAR A.1)
2. Recognition of the correct amount of interest income on term deposits after due reconciliation thereof with interest certificate issued by the bank(s) may be ensured. (DSAR Para A.2)
3. Correctness of the accounting treatment with regard to adjustment of ₹2.62 crore arising from the obligations related to capital works may be ensured. (DSAR Para A.3)
4. Correct accounting treatment in respect of advances/recoverable pertaining to IDF as per the applicable Accounting Standards may be ensured. (DSAR Para A.4)
5. Appropriate adjustments of the provisions for leave encashment, gratuity in respect of the employees, received from their respective principal employers may be carried out. (DSAR Para A.5)
6. Correctness of the amount classified as Establishment Expenditure (Schedule 14) may be ensured. (DSAR B.1)
7. It may be ensured that the amount classified as student fees under Schedule 10 is correct. (DSAR B.2)
8. Suitable Significant Accounting Policy for treatment and utilisation of interest from Endowment Fund may be formed. (DSAR Para C.1)
9. As assured, suitable and adequate disclosure in respect of Land handed over to Oil India Limited may be ensured. (DSAR Para D.5)
10. Suitable accounting in respect of long pending recoverable amount of ₹0.41 crore from UPSIDC may be ensured. (DSAR Para D.7)

पाँचवा, छठा, सातवाँ एवं दसवाँ तल, सी.ए.जी बिल्डिंग, एनैक्सी, 10, बहादुर शाह जफर मार्ग, नई दिल्ली - 110002
5th, 6th, 7th & 10th Floor, C.A.G. Building Annexe, 10, Bahadur Shah Zafar Marg, New Delhi - 110002
Tel.: 011-23239213, 011-23239211, Email : pdaenergydl.cag@nic.in / dgaenergydl@cag.gov.in

11. As assured, suitable disclosure in respect of MSME in Notes to Accounts may be ensured. (DSAR Para D.9)
12. As assured, suitable disclosure in respect of related party transactions as per Accounting Standard 18 may be ensured. (DSAR Para D.10)

Yours faithfully,

Tanuja Mittal

(Tanuja Mittal)
Director General of Audit (Energy)

विद्यारत्नम् महद्धनम्

राजीव गांधी पेट्रोलियम प्रौद्योगिकी संस्थान

Rajiv Gandhi Institute of Petroleum Technology

Annual Report 2024-25

April 2024 to March 2025



RGIPT Jais Campus



RGIPT Sivasagar Campus



RGIPT Bengaluru Campus

nirf #78 ENGINEERING 2025

राष्ट्रीय महत्व का एक संस्थान

An Institution of National Importance

2025 International Year of Cooperatives Cooperatives Build a Better World

NICDC

स्वच्छ भारत एक कदम स्वच्छता की ओर

PM GatiShakti National Single Window System

MAKE IN INDIA

Table of Contents

Chapter 1	Director's Report	1
Chapter 2	Organizational Structure	7
Chapter 3	Faculty Affairs	9
Chapter 4	Administration	14
Chapter 5	Department of Chemical Engineering & Biochemical Engineering	18
Chapter 6	Department of Petroleum Engineering & Geoengineering	32
Chapter 7	Department of Electronics Engineering	49
Chapter 8	Department of Sciences	60
Chapter 9	Department of Management Studies	74
Chapter 10	Department of Computer Science & Engineering	81
Chapter 11	Department of Mathematical Engineering	90
Chapter 12	Centre for Computing and Information Services (CCIS)	96
Chapter 13	Academic Programmes and Award of Degree	98
Chapter 14	Library	108
Chapter 15	Student's Activities (DOSA)	111
Chapter 16	Training & Placement	137
Chapter 17	International and Alumni Relation	139
Chapter 18	Research & Development	142
Chapter 19	Institute Works Department	149
Chapter 20	Institute Hostel	152
Chapter 21	Assam Energy Institute, Sivasagar	154
Chapter 22	Energy Institute Bengaluru	171
Chapter 23	Audited Financial Report of 2024-25	182
Annexure I	Accounts for the Financial Year 2024-25	185
Annexure II	*Separate Audit Report 2024-25*	243

Director's Message

Dear All,
Namaskar

I welcome you on behalf of Rajiv Gandhi Institute of Petroleum Technology and thank you for showing your interest in us.

RGIPT was established in 2008 to provide a significant niche in the education and research of science and technology. Over a period of more than a decade, RGIPT has emerged as a leading institution in Petroleum engineering and energy related field through technological innovation and creativity. Co-promoted as an energy domain specific Institute by the six leading Indian Public Sector Oil Companies and Oil Industry Development Board, the Institute was set-up through an act of Parliament by the Government of India. It has been accorded the status of Institution of National Importance empowering to conduct high quality R&D work and award Bachelors, Masters, Doctoral and Post Graduate Diploma Degrees in different streams relevant to Energy and Technology including Management. For years RGIPT has been educating young men and women who entered its community and attained their transformation into responsible citizens and leaders of Petroleum and Energy Related Fields. At RGIPT we are trying to build an education system that is meant to be transformative – academically, socially, and personally. The Institute is committed to create an ambience for nurturing innovation, creativity and excellence within its students.

Our aim at RGIPT is to provide a safe, secure environment in which every student will acquire the skills and knowledge necessary to become accomplished, productive members of the ever-changing, global energy community. Students are being positioned to make key contributions to the advancement of technology solutions and sustainability research and to help lead the way toward sustainable growth of technological resources. The academic programs are designed to instil innovation, leadership, teamwork, and global focus in its students. Our alumni have excelled in every field, be it the core engineering, research and teaching, consulting and investment banking, or administrative and social sectors. The institute is preparing the next generation of leaders more prominently called "Energy Warriors" who will carry this path forward in the years ahead. Our faculty is a very dedicated group of individuals who continue to focus on providing the best possible instruction for our students. RGIPT offers a number of opportunities for students to get involved outside of the classroom through sports, clubs, and community service by the name of "Gyan Arpan".

We try to enable students to venture beyond their "comfort zones" both inside and outside the classroom. Through the efforts of our accomplished faculty, our talented students and exceptional alumni, we have been able to make rapid progress on our path of continuous growth and innovation. The Internship embedded B.Tech. Programme is launched at the Institute following the guidelines of NEP 2020 to provide the students with the opportunity to pursue long term internships up to 8 weeks in industries. Opening of Astronomy club, Kode Club, product design club are the steps to make the students leaders and entrepreneurs who will empower their organizations in the global economy. At the same time, the Institute remains deeply rooted in the region and the nation. An underlying priority is to instill in our students a sense of commitment and to have a socially responsible impact. With this the institute has started Community Internship Program to help the people in nearby villages in Amethi Area.

It is well established fact in modern times that no country make effective progress until its females get equal opportunity and support. As an academic and research institution "RGIPT" has taken a step with "Urja Shakti" event to make the progressive dreams of daughters of India true. The Urja Shakti event is an initiative by RGIPT to promote women's presence in the Energy Sector. The name "Urja Shakti", itself tells about the idea of this event, "Urja" represents the theme of the event - Energy and "Shakti " represents Feminine Power. The event is a national-level write-up competition for female undergraduate engineering students. The winners of the event are rewarded with a cash prize. It is an opportunity for participants to share their novel and innovative ideas in front of experts in the field.

The institute is undergoing campus expansion and also procurement and maintenance of already built hostels, Director's residence, Renovation of existing covered area for creating new classrooms, teaching and research labs and faculty cabins. Development of robust infrastructure is our priority, and the Institute has state-of-the-art centre in AI &Ml, Center for Innovation and Incubation.The campus network is protected by a Sophos XGS 4300 firewall, which enables high-performance TLS 1.3 inspection, deep packet inspection, and network flow FastPath to accelerate trusted SaaS, SD-WAN, and cloud application traffic.The institute has a central library with around 17000 books.

Faculties are seen as architects of the future by nurturing young minds and instilling values and ethics. Their influence extends to shaping not just individuals but the nation as a whole. RGIPT is bestowed with a talented pool of 100 faculty members, spread across 11 versatile departments. The institute has recently extended and strengthened its pool of faculty by recruiting many new talented candidates.

The rank of 78th received by the Institute in the category of Engineering Institutions can be termed as highly impressive considering the fact that the Institute is relatively new with limited student strength and offers domain specific UG and PG programmes. In subsequent years, the aspiration is to be placed within the top 50 in the NIRF ranking framework.

Hopefully, the Institute will continue to create unique and novel programs to make significant contributions to academic innovation, top-tier journal publications, citations and technology developments. Wish you happy, healthy, and fruitful year ahead.

Jai Hind!

Prof. Alok Kumar Singh
Director (Officiating), RGIPT

Chapter-1
Director's Report

I am privileged to present the Annual Report of RGIPT for the academic year 2024-25. It has been a year marked by significant progress and achievements across all dimensions of our institutional mission. I feel happy and proud to report that RGIPT continues to make rapid strides in academics, research and outreach activities.

Rajiv Gandhi Institute of Petroleum Technology (RGIPT), Jais, is an autonomous institution established by the Government of India. The Institute has been accorded the status of "An Institution of National Importance" along the lines of the Indian Institutes of Technology (IIT) under an Act of Parliament ("Rajiv Gandhi Institute of Petroleum Technology Act 2007"). RGIPT is co-promoted as an energy domain specific institute by six leading Oil Public Sector Units (ONGC, IOCL, OIL, GAIL, BPCL and HPCL) in association with the Oil Industry Development Board (OIDB). The Institute is associated with leading international universities and institutions specializing in the domain of Petroleum & Energy Technology. Institute's prime objective is to provide world class education, training, and research to roll out competent human resources to meet the growing requirements of the Petroleum & Energy Sector.

Academic Programmes

The Institute continued its commitment to providing quality education across multiple disciplines. RGIPT has reformed its curriculum in line with the National Education Policy. The Institute offers B.Tech., Integrated Diploma and B.Tech. (IDD), and M.Tech. programmes in various Engineering disciplines along with an MBA programme. PhD programmes in various areas of Basic Sciences, Humanities, Engineering and Management are also offered at the Institute.

Currently, RGIPT Jais is offering 12 Undergraduate Programmes under 7 different streams, 3 Postgraduate programmes (M.Tech. in Petroleum & Chemical and M.B.A.), and Doctoral programmes in various disciplines of Engineering, Sciences, Humanities and Management. New programmes including B.Tech in Chemical Engineering with major in Petrochemicals & Polymer Engineering, B.Tech. in Computer Science & Design Engineering, IDD in Computer Science & Engineering and Artificial Intelligence `continued to strengthen our academic portfolio.

During the academic year 2024-25, the institute produced distinguished graduates across all programmes, maintaining high academic standards and excellence in education delivery.

8th Convocation

The Institute successfully organized its 8th Convocation ceremony, celebrating the achievements of our graduating students. The convocation witnessed the conferment of degrees to students who graduated in 2024 across various disciplines:

- B.Tech: 157 graduates
- M.Tech: 13 graduates
- MBA: 37 graduates
- PhD: 19 graduates
- Diploma: 172 graduates (from Assam Energy Institute, Sivasagar)

Faculty Affairs

The growth of any academic institution is reliant on the research and teaching efficiency of its faculty members. RGIPT is blessed with a talented pool of faculty members across its three campuses. The current faculty strength stands at:

- RGIPT Jais Campus: 70 faculty members
- RGIPT Energy Institute Bengaluru: 8 faculty members
- RGIPT Assam Energy Institute, Sivasagar: 22 faculty members

During the academic year 2024-25, the Institute recruited 12 new faculty members, including 2 Associate Professors, 9 Assistant Professors, and 1 Visiting Faculty. All faculty members are PhDs from leading institutions including IITs, central universities, and renowned international universities, with many having post-doctoral experience. The Institute continues to encourage exchange visits of faculty members to acclaimed institutes for professional growth and international collaboration.

Faculty members have been actively engaged in cutting-edge research, with numerous publications in peer-reviewed international journals, patent filings, and participation in national and international conferences. Several faculty members received prestigious awards and recognition for their contributions to research and teaching excellence.

Research Activities

Research at RGIPT has been a core activity since inception. The institute actively involves B.Tech students in various ongoing research activities along with M.Tech and Ph.D students, creating a dynamic research environment at every level. Faculty members have been engaged in high-quality research, publishing in internationally reputed journals and conferences.

The research at RGIPT covers diverse areas including petroleum refining, catalysis, CO2 capture and utilization, hydrogen production and storage, enhanced oil recovery, drilling fluids, wellbore cementing, nanomaterials, renewable energy, biofuels, fuel cells, and materials science. The institute has maintained strong collaborations with industry partners, securing externally funded research projects from various organizations including DST, CSIR, and major oil PSUs.

Several patents have been filed by faculty members during this period, demonstrating the innovative and application-oriented research culture at the Institute. Faculty members have also

been invited to deliver lectures at national and international conferences, enhancing the Institute's visibility and reputation in the academic community.

Training & Placement

During 2024-25, the placement activities for the UG-PG students witnessed remarkable success across all three campuses. The Training & Placement Office facilitated the placement process, liaising with various companies and corporate houses for campus interviews and selection of graduate and post-graduate students from multiple disciplines.

The placement statistics for 2024-25 are as follows:

RGIPT Jais Campus:

- Starting Date: January 2024
- Total Companies Visited: 22
- Total Job Offers: 71

RGIPT Assam Energy Institute, Sivasagar:

- Starting Date: February 2025
- Total Companies Visited: 3
- Total Job Offers: 12

RGIPT Energy Institute Bengaluru:

- Starting Date: September 2025
- Total Companies Visited: 39
- Total Job Offers: 56

Several firms from the energy, services, consulting and manufacturing sectors visited the campuses to offer placement to graduating students, including national Oil PSUs and major international companies. The placement season runs throughout the year, commencing in September and continuing through June. Many students also continued to pursue higher studies at prestigious institutions.

Infrastructure & Facilities

The Institute continued to enhance its infrastructure and facilities to provide a world-class learning environment. The state-of-art campus at Jais, built on 47 acres of land with facilities to accommodate 1100 students, includes several academic buildings with lecture rooms, teaching and research laboratories, in-campus residential complex, health center, guest house, play facilities, and hostels.

In line with our commitment to sustainability, solar panels are installed on the roofs of academic buildings as per MNRE guidelines. Several construction projects are ongoing, including a G+1 storey building to provide basic skills training for all kinds of machines to students, develop entrepreneurs with innovative ideas, and promote entrepreneurial activities in technology-based areas.

The CCIS unit of the institute provides uninterrupted Gigabit network connectivity to the entire campus. Internet access is provided by a dedicated lease line from National Knowledge Network (NKN) of 1 Gbps LAN and WiFi. The campus is well equipped with the latest Cisco indoor and outdoor access points. The Institute has many UG/PG teaching and research purpose licensed software including Matlab, Autocad, IBM SPSS & AMOS, Origin, Aspen Plus, Kappa, Gaussian & Gauss view, REDAS, CMG, Comsol, Ansys, Kingdom, Opentech, and others.

The Institute has populated computer labs with high-end desktop machines equipped with Windows and Linux operating systems, along with all required teaching lab software. All academic classrooms are equipped with multimedia projector systems, with several large classrooms featuring multimedia interactive digital podium systems.

Library

The RGIPT Central Library is fully computerized with a large and ever-growing collection of books. It is being developed as a world-class academic library and information center in the field of science and technology. The Central Library operates using SOUL 3.0 library management software by INFLIBNET (UGC) and is accessible through the official RGIPT website.

The library holds a comprehensive collection of over 16,000 books, journals, standards, technical reports, and online resources, covering diverse fields including Engineering, Science, Humanities, Electronics, Computer Science, Social Science, and Management. The library provides access to numerous print and online journals, as well as databases granting access to over 150,000 full-text online journals.

The library operates from 9:00 AM to 11:00 PM, extending its hours to 2:00 AM during the five days leading up to exams to accommodate students' study and research needs. The library provides access to iThenticate (Turnitin) for plagiarism checks and ensures campus-wide internet connectivity, offering access to online resources such as Emerald Management, American Chemical Society (ACS), OnePetro, IEEE, MathSciNet, SciFinder, and more. Advanced security measures, including RFID and CCTV, are in place to ensure safety and security.

Student Activities & Social Initiatives

Students at RGIPT are not only focused on academics but are also actively engaged in various social initiatives, cultural activities, and sports. The student-run social initiative club, ARPAN (Gyan Arpan), continues to organize various programs to educate school children in nearby areas of the Institute, contributing to poverty alleviation and sustainable livelihood for people in the district.

Major cultural and sports events organized by the Office of Dean-Student Affairs included:

- **Energia 2025** - RGIPT's flagship annual sports festival held on 22nd-23rd February 2025, bringing together over 10 colleges with 350+ external participants and 800+ total participants. The festival featured a wide array of sporting events including basketball, volleyball, badminton, chess, carrom, powerlifting, shot put, long jump, athletics, lawn tennis, and table tennis. It was a celebration of youth, fitness, and unity.
- **Cultural Festivals** - Various cultural events and festivals were organized throughout the year to promote artistic expression and cultural diversity among students.

Students have been recipients of prestigious scholarships including Uttar Pradesh Scholarship, EIL Scholarship, and Mukhya Mantri Medhavi Vidhyarthi Scholarship, among others. Many students have presented their research work at national and international conferences, winning awards and recognition for their contributions. Student teams also won the Smart India Hackathon 2023 organized by the Ministry of Commerce and Industries.

The Institute celebrated World Hydrogen Day on 8th October 2024 under the Vigyan Jyoti Programme, providing valuable exposure to students from Navodaya Vidyalaya Samiti and local schools to advanced research facilities. The program included laboratory visits to Chemical Engineering, Petroleum Engineering, Electronics Engineering, and Bioenergy Engineering laboratories, along with technical talks on hydrogen energy applications, inspiring students towards careers in science, energy, and technology.

Industry Collaboration & MOUs

RGIPT has initiated extensive efforts for harboring cooperation with hydrocarbon industries and strengthening bonds with peer elite institutions. The Institute has signed MOUs with several prestigious organizations including Hindustan Aeronautics Limited, Oil India Limited, Chennai Petroleum Corporation Limited, NASSCOM Foundation, Yokogawa Technology Solutions, and others for residential training, joint collaborative research, and knowledge exchange.

RGIPT ensures regular exposure to students through industry visits to oil refineries of PSUs and various R&D facilities. The institute also arranges periodic field trips for students to earn learning in real-time. These collaborations have resulted in numerous sponsored research projects and consultancy opportunities, strengthening the Institute's connection with industry.

Conferences and Training Programs

The Institute successfully organized several flagship conferences and events during the year, demonstrating its commitment to knowledge dissemination and academic excellence:

- **International Conference on Transforming Upstream: Breakthrough Technologies and Sustainability (ICTU 24)** - organized on 30th September - 1st October 2024 by the Department of Petroleum Engineering & Geoengineering.This conference brought together leading experts to discuss breakthrough technologies and sustainable practices in the upstream oil and gas sector.
- **SCHEMCON 2024** - the Student Chemical Engineering Conference was held on 20th-21st September 2024, providing a platform for student researchers to present their work and exchange ideas. The event included a Bots Exhibition showcasing innovation in robotics and automation.
- **URJOTSAV 2024** - held on 9th-10th November 2024, RGIPT's flagship national-level technical and entrepreneurial festival organized by the Science and Technical Council. This prestigious event served as an immersive experience where students engaged in hands-on activities, strategic planning, and real-world problem-solving, providing a platform for budding engineers, entrepreneurs, and innovators to showcase ideas and collaborate across disciplines.

- **Harnessing Computational Fluid Dynamics in the Energy Sector (H_CFD2025)** - organized from 23rd-25th January 2025, focusing on techniques and applications of CFD in the energy sector.

Faculty members and students actively participated in prestigious external conferences including India Energy Week (IEW) 2025 held in New Delhi from 11th-14th February 2025, UrjaVarta 2024, and IChE-CHEMCON 2024 (27th-30th December 2024). Training programs on Petroleum Refining Technology were also conducted for officers from major refineries including IOCL and CPCL.

The Department of Management Studies organized conferences on Net Zero Energy Transition and Sustainable Development, while various departments conducted workshops and seminars on emerging technologies and research areas. These events provided invaluable platforms for knowledge exchange, collaboration, and exposure to latest developments in the field.

Way Forward

As we move forward, RGIPT remains committed to its vision of becoming a premier institution in petroleum and energy education and research. The Institute will continue to focus on curriculum innovation aligned with industry needs, enhanced research output, stronger industry-academia partnerships, and holistic student development. With the support of our parent ministries, oil PSUs, dedicated faculty, staff, and enthusiastic students, RGIPT is well-positioned to contribute significantly to India's energy security and technological advancement.

Thank you all very much. Jai Hind!

Prof. Alok Kumar Singh
Director (Officiating), RGIPT

Chapter-2

Organizational Structure

GENERAL COUNCIL

Chairperson

Secretary, Ministry of Petroleum & Natural Gas, Government of India

Members

- Chairman, IOCL
- CMD, BPCL
- CMD, HPCL
- CMD, ONGC Ltd.
- CMD, GAIL (India) Ltd.
- CMD, OIL
- CEO, RIL
- CEO, Cairn Energy
- CEO, Shell India
- CEO, Essar Group
- Director General- DGH
- Advisor (Energy), NITI Aayog
- Executive Director, OISD
- Director, IIT Kanpur
- Vice-Chancellor, ICT Mumbai
- Secretary, OIDB
- President, RGIPT
- Director, RGIPT

BOARD OF GOVERNORS

- Prof. Aniruddh B. Pandit
  President – BoG, RGIPT
- Prof. Alok Kumar Singh
  Director (Officiating), RGIPT
- Prof. Yogesh M. Joshi
  Professor, IIT Kanpur
- Shri Ranjan Kumar Mohapatra
  Ex- Director (HR), IOCL
- Shri Manish Patil
  Director-HR, ONGC
- Dr. Alka Mittal
  Ex- Director (HR), ONGC
- Dr. Pradeep Srivastava
  Executive Director, TIFAC
- Dr. V. K. Saraswat
  Member, NITI Aayog
- Shri Prasad K. Panickar
  Director & Head, Nayara Energy Ltd.
- Shri Ayush Gupta
  Director-HR, GAIL
- Prof. Sanjay Kumar Kar
  Professor RGIPT
- Prof. Chanchal Kundu
  Professor RGIPT

FINANCE COMMITTEE

- Prof. Aniruddh B. Pandit
  President – BoG, RGIPT
- Prof. Alok Kumar Singh
  Director (Officiating), RGIPT
- Shri Ayush Gupta
  Director-HR, GAIL
- Shri Inder Jeet Singh
  Deputy Secretary-Finance, MoPNG
- Prof. Yogesh M. Joshi
  Professor, IIT Kanpur
- Prof. S.S. Yadav
  Professor, IIT Delhi

ACADEMIC SENATE

- Prof. Alok Kumar Singh
  Director (Officiating), Chairman
- Shri Chandrasekhar N.
  Head-R&D, BPCL
- Prof. M.S. Balathanigaimani, Dean-Research & Development
- Prof. Alok Kumar Singh, Dean-Non-Teaching Staff
- Dr. Kavita Srivastava, Dean-Planning, Resource & Alumni
- Prof. Chanchal Kundu, Dean-Academic Affairs
- Dr. Milan Kumar, HoD-Chemical Engineering & Biochemical Engineering
- Dr. Susham Biswas, HoD- Computer Science & Engineering
- Prof. Amit Ranjan, Professor-Chemical Engineering & Biochemical Engineering
- Dr. Arjun Deo, In-charge, Energy Institute Bengalurur
- Dr. Atul Sharma, Chairman-Senate Library Committee
- Dr. Tushar Sharma, Associate Professor- Petroleum Engineering & Geoengineering
- Dr. Debashis Jena, Assistant Professor-Management Studies
- Dr. Bhaskar Jyoti Medi, Assistant Professor-Energy Institute Bengaluru
- Smt. Sapana Srikanth
  CGM-Capability Building, HPCL
- Prof. R.S. Singh, BIS Chair Professor & Professor (HAG), IIT (BHU)
- Prof. Sanjay Kumar Kar, Dean-Faculty Affairs
- Prof. Satish Kumar Sinha, HoD-Petroleum Engg. & Geoengineering
- Dr. Jaya Srivastava, HoD-Management Studies
- Dr. U.D. Dwivedi, HoD- Electrical & Electronics Engineering
- Prof. Atul Sharma, HoD-Sciences & Humanities
- Shri Chinmoy Jit Sarma, In-charge, Assam Energy Institute
- Dr. Debashis Panda, Dean-Student Affairs, RGIPT
- Dr. Manoj Rajpoot, HoD-Mathematical Sciences
- Dr. Shivanshu Srivastava, Assistant Professor-Electronics Engineering
- Dr. Roopa Manjunath, Assistant Professor-Energy Institute Bengaluru

Secretary
Shri Jitendra Prasad
Registrar, RGIPT

Chapter-3
Faculty Affairs

Brief Introduction

All the matters related to the recruitment and establishment of faculty members and other academic staff comes under the purview of the Office of the Faculty Affairs. Sanction of leave, foreign travel, Cumulative Professional Development Allowance (CPDA) and LTC, issue of service certificates, issue of 'No Objection Certificates' (NOC) for various purposes are issued by the Office of the Faculty Affairs.

Faculty Position

Faculty members in Position

	RGIPT Jais Campus	RGIPT Bengaluru Campus	RGIPT Sivasagar Campus
Faculty Members	70	8	22
Visiting Faculty	1	0	0
Scientific Officers	0	0	0
DST Inspire Faculty	0	0	0

Faculty & Staff Members appointed during 2024-25

Professors	0
Associate Professors	02
Assistant Professors	09
Visiting Faculty	01

List of Faculty appointed during 1st April 2024-31st March 2025

RGIPT Jais Campus

S. No.	ID No.	Name of Faculty/Staff	Designation	Department/Section	Date of Joining
1	0237	Dr. Deepak Dwivedi	Assistant Professor (Grade-I)	Chemical & Biochemical Engg.	01.04.2024
2	0311	Dr. Omvir Singh	Assistant Professor (Grade-II)	Energy & Human Sciences	01.09.2024
3	0318	Dr. Abhay Pant	Assistant Professor (Grade-I)	Management Studies	03.12.2024

4	0245	Dr. Gargi Srivastava	Assistant Professor (Grade-I)	Computer Science & Engineering	17.06.2024
5	0303	Dr. Nirbhay Kumar Tagore	Assistant Professor (Grade-II)	Computer Science & Engineering	24.05.2024
6	0309	Dr. Santosh Kumar Mishra	Assistant Professor (Grade-II)	Computer Science & Engineering	14.08.2024
7	0316	Dr. Sumit Mishra	Assistant Professor (Grade-I)	Computer Science & Engineering	26.06.2024
8	0244	Dr. Sajal Agarwal	Assistant Professor (Grade-I)	Electrical and Electronics Engg.	17.06.2024
9	0248	Dr. Abhishek Kumar Singh	Assistant Professor (Grade-I)	Electrical and Electronics Engg.	24.06.2024
10	0211	Professor Akhoury Sudhir Kumar Sinha	Visiting Professor	Electrical and Electronics Engg.	22.07.2024

List of internal faculty members who joined during the period from 1st April 2024-31st March 2025

S. No.	ID No.	Name of Faculty/Staff	Designation	Department/Section	Date of Joining (with FN/AN)
1	0098	Dr. V.S. Sistla	Associate Professor	Chemical Engineering & Biochemical Engineering	24.08.2024
2	0071	Dr. Saroj Kr. Mishra	Associate Professor	Management Studies	07.06.2024

Faculty members who resigned/were relieved during 1st April 2024-31st March 2025

S. No.	ID No.	Name of Faculty/Staff	Designation	Department/Section	Date of Relief (with FN/AN)
1	0293	Dr. Mohd. Irfan	Associate Professor	Management Studies	21.01.2024

Faculty members who retired between 1st April 2024-31st March 2025

S. No.	ID No.	Name of Faculty/Staff/ Officer	Designation	Department	Date of Birth	Date of Retirement (with FN/AN)
1	0211	Prof. Akhoury Sudhir Kumar Sinha	Director	Chemical and Biochemical Engineering	16.06. 1956	09.07.2024

Faculty members on long leave during 1st April 2024-31st March 2025

S. No.	Name	Designation	Department	From	To	Details
1	Dr. Shivanjali Sharma	Associate Professor	Petroleum Engineering & Geoengineering	03.03.2025	29.08.2025	Maternity Leave

Staff Welfare

Human resource development

a. Conference

S. no.	Person Who Attended	Centre	Course Title	Duration	Department	Organisation Were attended

1	Prof. Satish Kumar Sinha	RGIPT Jais Campus	India Energy Week Conference	06-02-2024 to 09-02-2024	Petroleum Engineering & Geoengineering	Goa
2	Dr. Praveen Kumar Shrivastava	RGIPT Jais Campus	International Conference	07-02-2024 to 09-02-2024	Energy and Human Sciences	Sodha Energy Research Park - Ballia
3	Prof. Satish Kumar Sinha	RGIPT Jais Campus	Workshop organised by DGH	27-02-2024 to 28-02-2024	Petroleum Engineering & Geoengineering	OIDB, Noida
4	Prof. Alok Kumar Singh	RGIPT Jais Campus	Workshop organised by DGH	27-02-2024 to 28-02-2024	Petroleum Engineering & Geoengineering	OIDB, Noida
5	Dr. Hemant Kumar Singh	RGIPT Jais Campus	Workshop organised by DGH	27-02-2024 to 28-02-2024	Petroleum Engineering & Geoengineering	OIDB, Noida
6	Dr. Piyush Sarkar	RGIPT Jais Campus	Workshop organised by DGH	27-02-2024 to 28-02-2024	Petroleum Engineering & Geoengineering	OIDB, Noida
7	Dr. Amit Kumar	RGIPT Jais Campus	Workshop organised by DGH	27-02-2024 to 28-02-2024	Petroleum Engineering & Geoengineering	OIDB, Noida
8	Dr. Rohit Bansal	RGIPT Jais Campus	MDP for Business Intelligence Analytics Power BI	01-03-2024 to 03-03-2024	Management Studies	Sahnti Business School, Ahmedabad - Virtual Mode
9	Dr. Vipin Amoli	RGIPT Jais Campus	Academic Visit	01-03-2024 to 03-03-2024	Energy and Human Sciences	NITK, Surathkal
10	Dr. Tathamay Basu	RGIPT Jais Campus	Academic Visit	01-03-2024 to 05-03-2024	Energy and Human Sciences	NIT, Surathkal
11	Dr. Piyush Sarkar	RGIPT Jais Campus	National Seminar - Geosciences for Sustainable World - 2024	06-03-2024 to 07-03-2024	Petroleum Engineering & Geoengineering	Banaras Hindu University
12	Dr. Hemant Kumar Singh	RGIPT Jais Campus	National Conference	06-03-2024 to 07-03-2024	Petroleum Engineering & Geoengineering	Banaras Hindu University
13	Dr. Saurabh Pandey	RGIPT Jais Campus	IFAC International Conferrence	12-03-2024 to 15-03-2024	Electronics Engineering	Shiv Nadar Institution of Eminence - Delhi
14	Dr. Arvind Singh	RGIPT Jais Campus	Industrial Visit	22-03-2024 to 22-03-2024	Chemical Engineering & Biochemical Engg.	M/s Think Gas at Bhopal
15	Prof. Alok Kumar Singh	RGIPT Jais Campus	14th World Petro Coal Congress 2024	25-04-2024 to 26-04-2024	Petroleum Engineering & Geoengineering	NDMC - Convention Centre, Parliament Street, New Delhi
16	Dr. Vipin Amoli	RGIPT Jais Campus	National Centre for Flexible at IIT, Kanpur	07-05-2024 to 09-05-2024	Energy and Human Sciences	IIT, Kanpur
17	Dr. Abhishek Kumar Singh	RGIPT Jais Campus	National Centre for Flexible at IIT, Kanpur	07-05-2024 to 09-05-2024	Electronics Engineering	IIT, Kanpur
18	Dr. Shivanshu Shrivastava	RGIPT Jais Campus	International Conference	10-05-2024 to 12-05-2024	Electronics Engineering	IEEE International Conference, China

19	Dr. Amit Kumar	RGIPT Jais Campus	Industrial Visit	19-05-2024 to 29-05-2024	Petroleum Engineering & Geoengineering	ONGC, Panvel , Navi Mumbai
20	Dr. Sidharth Gautam	RGIPT Jais Campus	Industrial Visit	19-05-2024 to 29-05-2024	Petroleum Engineering & Geoengineering	IRS Ahmedabad & IPEOT, Mumbai
21	Dr. Shailesh Kumar	RGIPT Jais Campus	Industrial Visit	19-05-2024 to 29-05-2024	Petroleum Engineering & Geoengineering	IRS Ahmedabad & IPEOT, Mumbai
22	Dr. Gunjan Kumar Agrahari	RGIPT Jais Campus	Industrial Visit	22-05-2024 to 30-05-2024	Chemical Engineering & Biochemical Engineering	HPCL Refinery, Mumbai
23	Dr. Koushik Guha Biswas	RGIPT Jais Campus	Industrial Visit	22-05-2024 to 30-05-2024	Chemical Engineering & Biochemical Engineering	HPCL Refinery, Mumbai
24	Dr. Sajal Agarwal	RGIPT Jais Campus	Industrial Visit	23-05-2024 to 29-05-2024	Electronics Engineering	HPCL Refinery, Mumbai
25	Dr. Tushar Sharma	RGIPT Jais Campus	Research Visit	03-06-2024 to 25-07-2024	Petroleum Engineering & Geoengineering	Edith Cowan University (ECU) Australia - Research Visit
26	Dr. Rohit Bansal	RGIPT Jais Campus	India Net Zero Forum 2024	14-06-2024 to 14-06-2024	Management Studies	New Delhi, India Organised by Economic Times
27	Dr. Akash Yadav	RGIPT Jais Campus	International Conference	24-06-2024 to 28-06-2024	Computer Science & Engineering	International Conference - IIT Mandi
28	Dr. U.D. Dwivedi	RGIPT Jais Campus	IEEE International Communications Energy Conference	04-08-2024 to 07-08-2024	Electronics Engineering	Bengaluru
29	Dr. Tathamay Basu	RGIPT Jais Campus	Industrial Visit	31-08-2024 to 07-09-2024	Energy and Human Sciences	RRCAT, Indore
30	Dr. Piyush Sarkar	RGIPT Jais Campus	National Conference	27-09-2024 to 29-09-2024	Petroleum Engineering & Geoengineering	National Conference - ETES -2024 - IIT (ISM) Dhanbad
31	Dr. Amit Saxena	RGIPT Jais Campus	Research Visit	12-10-2024 to 15-10-2024	Petroleum Engineering & Geoengineering	OIL India Limited - Jodhpur
32	Dr. Shivanjali Sharma	RGIPT Jais Campus	Research Visit	12-10-2024 to 15-10-2024	Petroleum Engineering & Geoengineering	OIL India Limited - Jodhpur
33	Dr. Santosh Kumar Mishra	RGIPT Jais Campus	International Conference	02-12-2024 to 06-12-2024	Computer Science & Engineering	International Conference - Auckland, New Zealand
34	Dr. Shivanshu Shrivastava	RGIPT Jais Campus	International Symposium	16-12-2024 to 18-12-2024	Electronics Engineering	IEEE-iSES, New Delhi
35	Prof. Satish Kumar Sinha	RGIPT Jais Campus	Annual Convention of IGU on Advances in Earth System Sciences	03.12.2024 to 05.12.2024	Petroleum Engineering & Geoengineering	Annual Conference - (BHU), Varanasi

			with special reference to weather and climate			
36	Dr. Shweta	RGIPT Jais Campus	The Society of Rheology 95th Annual Meeting	13.10.2024 to 17.10.2024	Chemical Engineering & Biochemical Engineering	Austin, Texas, USA
37	Dr. Bheemaiah Chikondra	RGIPT Jais Campus	19th EAI International Conference	15.12.2024 to 16.12.2024	Electronics Engineering	IIT BHU Varanasi
38	Dr. Hemant Kumar Singh	RGIPT Jais Campus	International Conference on Earth: Archean to Proterozoic	19.12.2024 to 23.12.2024	Petroleum Engineering & Geoengineering	Sukhadia University
39	Dr. Koushik Guha Biswas	RGIPT Jais Campus	CHEMCON	28.12.2024 to 30.12.2024	Chemical Engineering & Biochemical Engineering	NIT Jalandhar
40	Dr. Gargi Srivastava	RGIPT Jais Campus	27th International Conference on Pattern Recognition (ICPR-2024)	01.12.2024 to 05.12.2024	Computer Science & Engineering	Kolkata
41	Dr. Nirbhay Kumar Tagore	RGIPT Jais Campus	21st International Conference on Distributed Computing and Intelligent Technologies-2025	08.01.2025 to 11.01.2025	Computer Science & Engineering	KIIT, Bhubaneshwar

Chapter-4
Administration

The Administrative Division of the Rajiv Gandhi Institute of Petroleum Technology (RGIPT) has been set up with the objective to assist Director in the day-to-day administrative and financial matters and ensure the compliance of various statutory obligations. This section is divided in Establishment, General Administration, Accounts and Audit sections comprising 10 nos of officers and staff members, supported by equal nos of outsourced staff. The Section-15(5) of RGIPT First Statute, 2009 states that the duty of the Registrar shall be-

i. Custodian of the records, the common seal and such other property of the Institute as the Board of Governor may commit to his charge;
ii. To issue notices convening meetings of the various authorities of the Institute of which he is the ex-officio Secretary as well as of any Committee appointed by these authorities;
iii. To circulate agenda items, prepare minutes and circulate them after the approval of the Director.
iv. To keep minutes of all meetings of the various authorities of the Institute of which he is the ex-officio Secretary as well as of any Committee appointed by these authorities;
v. To conduct official correspondence on behalf of the authorities of the Institute;
vi. To supply to the Central Government, copies of the agenda of meetings of the authorities of the Institute as soon as they are issued and thereafter the minutes of such meetings;
vii. To represent the Institute in lawsuits or legal proceedings by or against the Institute, sign powers of attorney and verify pleadings or depute his representative for the purpose; etc.

The major functions of various sections of the Administrative Divisions are as follows:

1. **Establishment:** The establishment section primarily handles the assignments of recruitment of non-Teaching staff for RGIPT and its centres, their annual performance appraisal, confirmation and promotion. It also maintains the Service Books of each staff members and their annual updation, personnel files, leave records, sanctioning of LTCs and other service matter. Further to that this section maintain the Reservation Roster Register, opening of NPS accounts of all employees of Institute and centres, issuance of bonafide certificates, fixation of pay, issue of periodical increment, deputation, resignation & retention/termination of lien, conduction of training programmes for employees, etc.
2. **General Administration:** The general administration of the Institute is responsible for organizing Institute's functions like Independence Day, Republic Day, Convocation, etc. This section also responsible to arrange meetings of General Council, Board of Governors, Finance Committee and Senate, preparation of agenda and minutes of the meeting, liaison with

administrative ministry and supplying them desired information and reports as and when required. Further to that this section is nodal office for filing the Quarterly and Annual Return on application received and disposed off under RTI Act, 2005, public grievance, usage of Hindi in official work, report on the measures taken for the welfare for the candidates belong to SC, ST, OBC, EWS, Divyang, Ex-Servicemen, etc. This section is also responsible for all legal matters of the Institute, press and media relations, coordination with centres, procurement, outsourcing of manpower, contract management, physical verification of fixed assets, maintenance of asset and consumable registers, allotment of flat and other premise.

3. **Finance & Accounts:** The Finance Section is involved specially in the preparation of Annual Accounts & Balance Sheet, payments of statutory dues like NPS, GST, TDS, Professional Tax, etc with respective authorities and filing of monthly, quarterly and annual returns. They are also responsible for disbursement of monthly salaries of all employees of the Institute and its centres, issuing their salary slips and Form-16, reimbursement of personal claims of employees and bill payment to vendors and other service providers on the recommendation of Internal Audit. Further to that Finance & Account Section is also responsible for establishing the Letter of Credit for import of equipment, budgeting, PFMS operation, generation of fees receipts, maintenance of imprest, investment of funds, coordination with C&AG team during annual accounts audit, etc.
4. **Internal Audit:** The internal audit is a very crucial section of the Institute to ensure the check and balance on entire financial transactions and report it to the Competent Authority after the review of systems, transactions, sanctions, operations and internal control to enable him to take corrective measures. The scope of work of internal audit includes Contract Management, Treasury & cash management, Stores & inventory, Estate management, Personal claims, Procurement, etc of RGIPT Jais and its AEI Sivasagar and EIB, Bengaluru centres. This section is responsible for the certification of all personal claims of employees and bills of vendors and service providers before payment, auditing of all procurement proposals of the Institute and its centres. It also conducts half-yearly Internal Audit and submit report to the Director and is nodal agency for transaction audit by the C&AG.

Strength of Non-Teaching Staff

Currently there are 48 nos. of Non-teaching staff at RGIPT Jais, Sivasagar & Bengaluru Campuses, taken together. The particulars of these staff members are as under:

Sl. No.	Category of Staff	Total Nos	UR	SC	ST	OBC	PH
RGIPT, Jais, Amethi							
1	Group-A	8	5	0	0	3	
2	Group-B	14	10	0	0	4	
3	Group-C	18	11	2	0	5	2 (UR)
4	**Total**	**40**	**26**	**2**	**0**	**12**	
Assam Energy Institute (AEI), Sivasagar							
1	Group-A	0	0	0	0	0	
2	Group-B	3	3	0	0	0	
3	Group-C	5	2	0	0	3	
4	**Total**	**10**	**6**	**0**	**0**	**4**	

Name of Non-teaching staff members:

RGIPT, Jais, Amethi

Sl. No.	Name of Staff Members	Designation
1.	Jitendra Prasad	Joint Registrar
2.	Sameer Ranjan Singh	Deputy Registrar
3.	Harish Kumar Yadav	Executive Engineer (Civil)
4.	Sudhir Arora	Assistant Registrar
5.	Anil Kumar Verma	Assistant System Officer
6.	Arun Kumar Singh	Assistant Registrar (Sr. Scale)
7.	Rakesh Singh	Assistant Registrar (Sr. Scale)
8.	Krishna Kant	Assistant Registrar
9.	Shweta Negi (on deputation)	Superintendent (Grade-II)
10.	Dharmendra Pratap Singh	Physical Training Instructor
11.	Madhu Priya	Superintendent (Grade-II)
12.	Umesh Kumar Sharma	Superintendent (Grade-II)
13.	Tej Prakash Joshi	Superintendent (Grade-II)
14.	Ankit Mohan	Superintendent (Grade-I)
15.	Lokesh Bhatnagar	System Superintendent (Grade-II)
16.	Md. Iltaf Zafar	Technical Superintendent (Grade-III)
17.	Arun Kumar Singh	Technical Superintendent (Grade-II)
18.	Birjesh Pratap Singh	Assistant Engineer (Civil)
19.	Utkarsh	Assistant Engineer (Electrical)
20.	Rajesh Kumar Vishwakarma	Assistant Security Officer (Grade-I)
21.	Arvind Kumar Yadav	Superintendent (Grade-I)
22.	Ankit Pachouri	System Superintendent (Grade-I)
23.	Ashwini Kumar Choudhary	Assistant System (Grade-III)
24.	Vivek Singh (on deputation)	Assistant (Grade-III)
25.	Yogesh Sharma	Assistant (Grade-III)
26.	Amit Kumar Bajpai	Assistant (Grade-III)
27.	Preeti Singh	Assistant (Grade-III)
28.	Umesh Kumar Sharma	Assistant (Grade-III)
29.	Govind Kumar Tiwari	Library & Info Assistant (Grade-III)
30.	Krishna Kumar Sonkar	Library & Info Assistant (Grade-III)
31.	Pradeep Kumar Verma	Library & Info Assistant (Grade-III)
32.	Ravi Dwivedi	Assistant (Grade-I)
33.	Amit Kumar Srivastav	Assistant (Grade-I)
34.	Shashi Mishra	Assistant (Grade-I)
35.	Gaurav Singh Gaharwar	Technician (Grade-I)
36.	Ekta Choudhary	Assistant (Grade-I)
37.	Rahul Singh	Assistant (Grade-I)
38.	Neha Pandey	Assistant (Grade-I)
39.	Trivikram	Technician (Grade-I)
40.	Brijesh Kumar Varma	Technician (Grade-I)
RGIPT, Sivasagar Campus		
1	Suramoni Borthakur	Technical Superintendent (Grade-I)
2	Saurav Jyoti Bharali	Technical Superintendent (Grade-I)
3	Aghna Tiyas Mandal	Superintendent (Grade-I)
4	Parishmita Sharma Baruah	Assistant (Grade-I)
5	Pulakesh Kumar	Assistant (Grade-I)
6	Kaushik Das	Assistant (Grade-I)
7	Tapan Jyoti Gogoi (OBC)	Technician (Grade-I)
8	Sumeer Kumar Saikia (OBC	Technician (Grade-I)

Meeting of the Statutory Bodies

The meeting of the statutory bodies like General Council, Board of Governors, Finance Committee and Senate during the Financial Year 2024-25 held as per provisions as mentioned in the First Statute of the Institute. The details of the concluded meeting are as under:

Statutory Bodies	Nos. of Meetings Held	Meeting Dates
General Council	01	a. November 27, 2024
Board of Governors	03	a. April 29, 2024 b. August 6,2024 c. November 22, 2024
Finance Committee	03	a. April 29, 2024 b. August 6,2024 c. November 22, 2024
Senate	01	a. December 22, 2024

Chapter-5

Department of Chemical Engineering & Biochemical Engineering

Year of Establishment: 2009
Head of the Department: Dr Milan Kumar, Associate Professor

Brief Introduction of the Department:

Conventionally, Chemical Engineering is the stream of engineering that aims to engineer chemical transformation of raw materials to useful products in economic and self-sustainable manner. Aligned with the mandate and vision with which the RGIPT has been established, the Department of Chemical Engineering and Biochemical Engineering (CEBE) at the RGIPT aims to train and produce experts with strong technical background and social commitment who will help the nation in meeting its energy demand in coming future. The Department of CEBE, one of the unique departments in the country, manages activities, facilities, and curricula related to those Chemical Engineering fields supporting oil and gas sector in particular and energy sector in general, and enjoys a direct and synergistic interface with the industries in these sectors.
The Department of CEBE offers the following flagship B Tech programs to train and produce professionals in oil & gas and energy sector:

1. B.Tech in Chemical Engineering
2. B.Tech in Chemical Engineering with major in Renewable Energy Engineering (starting from 2022)
3. B.Tech in Chemical Engineering with major in Petrochemicals & Polymer Engineering (starting from 2023)

In addition to these, the Department also runs various MTech and PhD programs.

Our classroom teaching is focused towards enhancing the creativity and innovation. Being an institution with the domain area of oil, gas and energy, our curricula are markedly designed with a thrust on these particular areas.

The Department strongly encourages its faculty members and students to interface with the industry and seeks industrial participation and partnership in various activities.

The Department also organizes various student events, training programs and lecture series periodically, such as training program on ‘Petroleum Refining Technology’ for officers from refineries, Departmental Lecture Series and CheMinar Series. In addition, lecture series by Student

Chapters of American Institute of Chemical Engineers (AIChE) and Indian Institute of Chemical Engineers (IIChE) are also organized periodically.

Major areas of Research

The research in the Department is centered on areas such as petroleum refining, catalysis, CO_2 capture, hydrogen production and storage, vanadium redox flow battery, corrosion, fuel cells, microfluidics, biofuel, adsorption, membrane science, nanomaterials, bioremediation and materials science.

Infrastructure

S. No.	Particulars	Number
1	No. of Classrooms	08
2	No. of Lecture Halls	
3	No. of Laboratory	15
4	No. of Computers available for students in the Department/Centre/ Centre	45

Unique Achievement / Preposition of the Department/Centre

Academic Programmes offered

Modular Course on:

B.Tech Minor Programs in Chemical Engineering for undergraduate students of other stream such as Computer science & Engineering, Information Technology, Electronics Engineering, and Mathematics & Computing.

B.Tech in Chemical Engineering / B.Tech in Chemical Engineering with Major in Renewable Energy Engineering /B.Tech in Chemical Engineering with Major in Petrochemicals and Polymers Engineering

B.Tech in Chemical Engineering with Major in Petrochemicals and Polymers Engineering Subjects are as follows:

S. No.	Course Code	Course name	Course credit
B-Tech 1st Year ChE			
1 (Odd)			
1	CH161	Engineering Thermodynamics	11
2	HU101	Universal Human Values	5
S. No.	**Course Code**	**Course Name**	**Course credit**
B-Tech 1st Year ChE			
2 (Even)			
1	CH121	Fluid Mechanics	11

2	CH111	Chemical Engineering Practices	5
3	HU102	Community Internship	5
S. No.	**Course Code**	**Course name**	**Course credit**
B-Tech 1st Year PPE			
1 (Odd)			
1	CH161	Engineering Thermodynamics	11
2	HU101	Universal Human Values	5
S. No.	**Course Code**	**Course name**	**Course credit**
B-Tech 1st Year PPE			
2 (Even)			
1	CH121	Fluid Mechanics	11
2	CH113	Petrochemicals & Polymer Engineering Practices	5
3	HU102	Community Internship	5
S. No.	**Course Code**	**Course name**	**Course credit**
B-Tech 1st Year REE			
1 (Odd)			
1	CH161	Engineering Thermodynamics	11
2	HU101	Universal Human Values	5
S. No.	**Course Code**	**Course name**	**Course credit**
B-Tech 1st Year REE			
2 (Even)			
1	CH121	Fluid Mechanics	11
2	CH112	Renewable Energy Engineering Practices	5
3	HU102	Community Internship	5
S. No.	**Course Code**	**Course name**	**Course credit**
B-Tech 2nd Year ChE			
3 (Odd)			
1	CH262	Chemical Engineering Thermodynamics	11
2	CH171	Mass & Energy Balances	8
3	CH224	Fluid Flow and Mechanical Operations	11
4	CH223L	Fluid Flow and Mechanical Operations Lab	2
S. No.	**Course Code**	**Course name**	**Course credit**
B-Tech 2nd Year ChE			
4 (Even)			
1	CH212	Materials Science and Strength of Materials	9
2	CH274	Mass Transfer Operations-1	11
3	CH281	Petroleum Refining Engineering	9
4	CH231	Heat Transfer Operations	11
5	CH251	Chemical Reaction Engineering-1	8
6	CH251L	Chemical Reaction Engineering Lab	2
7	CH231L	Heat Transfer Operation Lab	2
Summer			
1	CH415	Summer Internship (4 Weeks)	3
S. No.	**Course Code**	**Course name**	**Course credit**
B-Tech 2nd Year PPE			
3 (Odd)			
1	CH262	Chemical Engineering Thermodynamics	11
2	CH171	Mass & Energy Balances	8

3	CH224	Fluid Flow and Mechanical Operations	11
4	CH224L	Fluid Flow and Mechanical Operations Lab	2
S. No.	**Course Code**	**Course name**	**Course credit**
B-Tech 2nd Year PPE			
4 (Even)			
1	CH212	Materials Science and Strength of Materials	9
2	CH274	Mass Transfer Operations-1	11
3	CH281	Petroleum Refining Engineering	9
4	CH191	Fundamentals of Polymer & Petrochemicals	6
5	CH231	Heat Transfer Operations	11
6	CH251	Chemical Reaction Engineering-1	8
7	CH251L	Chemical Reaction Engineering Lab	2
8	CH231L	Heat Transfer Operation Lab	2
Summer			
1	CH415	Summer Internship (4 Weeks)	3
S. No.	**Course Code**	**Course name**	**Course credit**
B-Tech 2nd Year RRE			
3 (Odd)			
1	CH262	Chemical Engineering Thermodynamics	11
2	CH171	Mass & Energy Balances	8
3	CH224	Fluid Flow and Mechanical Operations	11
4	CH224L	Fluid Flow and Mechanical Operations Lab	2
S. No.	**Course Code**	**Course name**	**Course credit**
B-Tech 2nd Year RRE			
4 (Even)			
1	CH212	Materials Science and Strength of Materials	9
2	CH274	Mass Transfer Operations-1	11
3	CH281	Petroleum Refining Engineering	9
4	CH231	Heat Transfer Operations	11
5	CH251	Chemical Reaction Engineering-1	8
6	CH251L	Chemical Reaction Engineering Lab	2
7	CH231	Heat Transfer Operation Lab	2
Summer			
1	CH415	Summer Internship (4 Weeks)	3
S. No.	**Course Code**	**Course name**	**Course credit**
B-Tech 3rd Year ChE			
5 (Odd)			
1	CH375	Mass Transfer Operations-2	9
2	CH352	Chemical Reaction Engineering-2	8
3	CH392	Chemical Process Technology	9
4	CH414	Process Equipment Design	6
5	CH382	Refinery Process Design	9
6	CH341	Process Dynamics and Control	11
7	CH274L	Mass Transfer Operation Lab	2
8	CH341L	Process Dynamics and Control Lab	2
9	CH414P	Process Equipment Design Project	2
S. No.	**Course Code**	**Course name**	**Course credit**
B-Tech 3rd Year ChE			
6 (Even)			

1	CH301	Process Instrumentation	6
2	CH313	Equipment Design: Mechanical Aspects	9
3	CH413	Plant Design and Economics	9
4	CH202	Corrosion Engineering	6
5	CH481	Natural Gas Processing	9
6	CH413	Plant Design and Economics Lab	2
7	CH543	Fluidization Engineering	9
Summer			
1	CH417	Summer Internship (6 Weeks)	5
S. No.	**Course Code**	**Course name**	**Course credit**
B-Tech 3rd Year PEE			
5 (Odd)			
1	CH375	Mass Transfer Operations-2	9
2	CH352	Chemical Reaction Engineering-2	8
3	CH395	Chemical Process Technology	9
4	CH414	Process Equipment Design	6
5	CH591	Petrochemical Process Technology	6
6	CH341	Process Dynamics and Control	11
7	CH274L	Mass Transfer Operation Lab	2
8	CH341L	Process Dynamics and Control Lab	2
9	CH591L	Petrochemicals Lab	2
10	CH414P	Process Equipment Design Project	2
S. No.	**Course Code**	**Course name**	**Course credit**
B-Tech 3rd Year PEE			
6 (Even)			
1	CH301	Process Instrumentation	6
2	CH313	Equipment Design: Mechanical Aspects	9
3	CH413	Plant Design and Economics	9
4	CH202	Corrosion Engineering	6
5	CH391	Polymer Synthesis & Properties	8
6	CH393	Polymer Processing	6
7	CH391L	Polymers Lab	2
8	CH413L	Plant Design and Economics Lab	2
S. No.	**Course Code**	**Course Name**	**Course Credit**
B-Tech 3rd Year REE			
5 (Odd)			
1	CH375	Mass Transfer Operations-2	9
2	CH352	Chemical Reaction Engineering-2	8
3	CH392	Chemical Process Technology	9
4	CH414	Process Equipment Design	6
5	CH203	Energy Resources & Utilization	6
6	CH341	Process Dynamics and Control	11
7	CH274L	Mass Transfer Operation Lab	2
8	CH203L	Energy Resources & Utilization Lab	2
9	CH341L	Process Dynamics and Control Lab	2
10	CH414P	Process Equipment Design Project	2
S. No.	**Course Code**	**Course name**	**Course credit**
B-Tech 3rd Year REE			
6 (Even)			
1	CH301	Process Instrumentation	6
2	CH313	Equipment Design: Mechanical Aspects	9
3	CH413	Plant Design and Economics	9

4	CH451	Electrochemical Processes and Energy Systems	9
5	CH202	Corrosion Engineering	6
6	CH305	Nuclear Energy Engineering	9
7	CH508L	Energy Conversion Lab	2
Summer			
1	CH417	Summer Internship (6 Weeks)	5
S. No.	**Course Code**	**Course name**	**Course credit**
B-Tech 4th Year ChE			
7 (Odd)			
1		Seminar / CDC Course	2
2		Group Discussion	2
S. No.	**Course Code**	**Course name**	**Course credit**
B-Tech 4th Year ChE			
8 (Even)			
1	CH418	B.Tech. Project	40
S. No.	**Course Code**	**Course name**	**Course credit**
B.Tech 4th Year PPE			
7 (Odd)			
1		Seminar / CDC Course	2
2		Group Discussion	2
S. No.	**Course Code**	**Course name**	**Course credit**
B-Tech 4th Year PPE			
8 (Even)			
1	CH418	B.Tech. Project	40
S. No.	**Course Code**	**Course name**	**Course credit**
B-Tech 4th Year REE			
7 (Odd)			
1		Seminar / CDC Course	2
2		Group Discussion	2
S. No.	**Course Code**	**Course name**	**Course credit**
B-Tech 4th Year REE			
8 (Even)			
1	CH418	B.Tech. Project	40

Students on Roll

S. No.	Programme	I Year	II Year	III Year	IV Year	V Year & above
1	B. Tech CHE	66	66	52	12	NA
2	B. Tech REE	15	10	8	NA	NA
3	B. Tech PPE	20	13	NA	NA	NA
4	M. Tech/ M. Pharm	0	0	NA	NA	NA
5	Ph. D (Under Institute Fellowship)	1	3	4	2	7
6	Ph. D (Under Project Fellowship)	0	0	1	0	0
7	Ph. D (Under Sponsored Category)	1	4	2	4	1

Names of students/scholars who attended conferences/workshops/seminars and symposia abroad or in India

S. No.	Name of Student	Roll No.	Conference/Seminar/Symposia/Workshop	Date & Venue	Financial Assistance
ÌNDIA					
1	Siddharth Atal	22CE000	International Conference on	20th – 21st Aug 2024 B.S.	Self

		8	Frontiers in Electrochemistry, Innovations in Supercapacitors and Batteries	Abdur Rahman Crescent Institute of Science and Technology, Chennai, India	
2	Siddharth Atal	22CE0008	International Conference on Advanced Materials for Sustainable Development (ICAMSD 2025)	28 - 29 March, 2025, MNIT Jaipur, India	RSG
3	Saurabh Kumar	22CE0006	International Conference on Advanced Materials for Sustainable Development (ICAMSD 2025)	28 - 29 March, 2025, MNIT Jaipur, India	RSG
4	Swati Chaudhary	22CE0007	International Conference on Advanced Materials for Sustainable Development (ICAMSD 2025)	28 - 29 March, 2025, MNIT Jaipur, India	RSG
5	Aash Mohammad	20ce0001	CHEMOCON-24	27-30-Dec-2024 NITJ	RSG-Fund
	Aash Mohammad		ICONEST-2024	September18, 2024 to September 20, 024, CSIR-NPL, Delhi	RSG fund
6	Swapna Patel	23CE0009	Conference	Dec 27, 2024 NIT Jalandhar	RSG
7	Shikha Sharma	22ce0012	Compflu- 2024	December 16 2024 to December 18 2024 IIT, Hyderabad	RSG
8	NIYAMAT ULLAH KHAN	20ce0008	IChE-CHEMCON 2024	December 27, 2024 to December 30, 2024 NIT jalandhar	NTPC NETRA project P-2401
8	Harikeshvar Pandey	20ce0007	"CHEM-TECHNOVA 2025"	April 03, 2025 to April 5, 2025	RSG
9	Bhupendra Kumar	21CE0006	SPARC Workshop on Crystallization Systems Engineering	18, February to 20 February, 2025 IIPE, Vishakhapatnam	Self
10.	Ajeet Kumar Prajapati	20ce0002	Workshop, IIT Jodhpur	December 1, 2024 to December 29, 2024	RSG
11	Harikeshvar Pandey	20ce0007	CHEM-TECHNOVA 2025	April 03, 2025 to April 5, 2025	RSG
ABROAD					
1	Ajeet Kumar Prajapati	20ce0002	Conference (ICRI-2025) Bali, Indonesia	May 05th, 2025 to May 6th,2025	R&D, Department fund, RSG
2	Assh Mohd.	20ce0001	Conference (ICRI-2025) Bali, Indonesia	May 05th, 2025 to May 6th,2025	R&D, Department fund, RSG

Names of students/scholars who got prizes and awards outside the Institute

S. No.	Name of Student	Roll No.	Name of Prize	Date & Venue	Prize awarded by
1	Siddharth Atal	22CE0008	Best Poster Award	20th – 21st Aug 2024, B.S. Abdhur Rahman Crescent Institute of Science and Technology, Chennai, India	International Conference on Frontiers in Electrochemistry
2	Saurabh Kumar	22CE0006	Best Oral Presentation Award	28 - 29 March, 2025, MNIT Jaipur, India	International Conference on Advanced Materials for Sustainable Development (ICAMSD 2025)
3	Swati Chaudhary	22CE0007	Best Oral Presentation Award	SCHEMCON 2024 held on September 20-21, 2024	SCHEMCON 2024
4	Aash Mohammad	20ce0001	Best oral presentation award	Bali Indonesia	ICRI
5	Ajeet Kumar Prajapati	20ce0002	Young Achiever Awards	5-6th May,2025 Bali, Indonesia	IRSA, European Union
	Ajeet Kumar Prajapati	20ce0002	Best Oral Presentation Award	5-6th May,2025 Bali, Indonesia	IRSA, European Union
	Mr Ajeet Kumar Prajapati	20ce0002	Prof. A Suryanarayana and Mrs Vanajakshi Award for the Best Author of Chemical Engineering Book Chapter	2024-2025	IIChE
6	Arjun Krishna	21ce3001	Bhumistha Infra Services Award	July 05-06, 2025	OYCE 2025 Awards Ceremony organized by IIChE-MRC held at IIT Bombay
7	Mr. Aditya Kashyap	22ce3005	Donald F. Othmer & Mildred Topp Scholarship Award	2024-2025	AIChE International
	Mr. Aditya Kashyap	22ce3005	Prof. A Suryanarayana and Mrs Vanajakshi Award for the Best Author of Chemical Engineering Book Chapter	2024-2025	IIChE
	Mr Aditya Kashyap	22ce3005	Pankaj P Patel Trust Essay Competition	2024-2025	IIChE
8	Mohd. Arham Ibtesam	22ce3032	2nd prize in poster presentation	20 September 2024 – 21 September 2024	IIChE
9	Mr. Vinayak Awasthi	23ce3060	Donald F. Othmer Second Year Student Academic Excellence Award	2024-2025	AIChE International
	Mr. Vinayak Awasthi	23ce3060	2nd prize in ChemE Research Expo	12th March 2025	Tryst 2025, IIT Delhi
10	Mr. Piyush Singh	23pp3002	Freshmen Student Recognition Award	2024-2025	AIChE
11	Mohd. Yasar	23ce3069	beVisioneerrs: The Mercedes-Benz Fellowship	Cohort 3, 2025	Mercedes-Benz

Names of Students/Scholars who went for foreign Internship

S. No.	Name of Student	Roll No.	Name of the Organization	Place of Internship	Country	Duration
1	Siddharth Atal	22CE0008	Ohio University, USA	Ohio	USA	3 Months

Faculty and their areas of specialisation

S. No.	Name, Qualifications	Date of award of PhD Degree	Major Areas of Specialization (Max. 3 Areas)
PROFESSORS			
1	Prof. ASK Sinha Visiting Professor	1990	Heterogeneous Catalysis for photocatalysis, hydrocarbons generation and bio-fuel production; Production, storage and ases of hydrogen; Process intensification
2	Prof. Amit Ranjan,	2007	Polymeric Nanostructures, Oxide Semiconductor Nanoparticles, Composite Materials, Fracture in Soft Materials, Complex Fluids
3	Prof. M.S. Balathanigaimani,	2009	Adsorbed Natural Gas, Hydrogen storage by Adsorption, Adsorptive Desulfurization
ASSOCIATE PROFESSORS			
1	Dr Rakesh Kumar.	2011	Process Modeling & Simulation, CO_2 Capture Using Ionic Liquids/Deep Eutectic Solvents, Advanced Separation Processes, Biodiesel Production
2	Dr Milan Kumar	2011	Redox flow battery, Electrolyser, Fuel cell
3	Dr Koushik Guha Biswas	August 2015	Microfluidics, Multiphase Flow, Biofuels
4	Dr V S Sistla	July 2012	Crystallization, Industrial Catalysis
ASSISTANT PROFESSORS			
1	Dr Gunjan Kumar Agrahari	July 2013	Biofuel Production from waste, Membrane Separation, Microbial fuel cell
2	Dr Deepak Dwivedi	2020	Corrosion Science and Engineering, Surface Science and Engineering, Adsorption to minerals and fluid-mineral interaction
3	Dr Shweta	March 2017	Rheology of complex fluids, Biofuel, Interfacial rheology of crude oil-water interfaces, emulsions
4	Dr Vivek Kumar	June 2019	Economic Plantwide Control, Smart Control Structure design, Modelling and Simulation
5	Dr Karan Malik	July 2021	Batteries, Fuel Cells, Electrochemical Systems
6	Dr Supriya Pulipaka	2020	Batteries, Photoelectrochemical water splitting, Renewable energy
7	Dr Arvind Singh	March 2018	Heterogeneous Catalysis & Hydrogen Energy, Bio-fuels & Biomaterials, Bioremediation

Technical and Non-Teaching Staff

Sl. No.	Name, Qualifications	Designation, Employee No.	Date of Appointment in the department
1.	Mr. Arun Kumar Singh	Technical Superintendent (Grade-II)	16th August 2019
2.	Mr. Umesh Kumar Sharma (M.Com)	Assistant (Grade III)	16th August 2019
3.	MS. Alpana singh	Technical Superintendent (Grade-I) (on contract)	15th July 2024
4.	Mr. Anuj Srivastava (Post Diploma Plastics Technology, CIPET Lucknow)	Assistant Grade I (on contract)	20th December 2019
5.	Mr. Mahesh Mourya	Attendant (on contract)	16th August 2019
6.	Mr. Surjeet Kumar	Attendant (on contract)	16th August 2022

Short-term courses/workshops/seminars/symposia/conferences organised by faculty members

S. No.	Cordinator	Title	Period
1	Dr. Milan Kumar (Chairman), Dr. Rakesh Kumar (Vice-Chairman), Dr. Karan Malik (Organizing Secretary), Dr. Shweta (Joint Organizing Secretary), Dr. Deepak Dwivedi (Joint Organizing Secretary), Dr. Gunjan Kumar Agrahari (Treasurer)	SCHEMCON 2024	20-21 September 2024
2	Dr KG Biswas, Dr Arvind Singh Dr Rohit Bansal	Petroleum Refining Technology	24 March to 04 April 2025
3	Dr Arvind Singh, Dr Shailesh Kumar, Dr Saurabh Pandey	One-Day National Seminar on "Technological Options for a Clean & Sustainable Planet	25 March 2025

Short-term courses/workshops/seminars/symposia/conferences/training programmes attended by faculty members in academic institutions and public sector undertakings

S. No.	Name of Faculty Member	Title	Period and Venue
Seminars/Symposia/Conferences			
1	Dr. Shweta	95th Annual Meeting of The Society of Rheology, Austin USA	13th-17th October 2024 Austin, Texas, USA
2	Koushik Guha Biswas	Session Chair Chemcon 2024	27 to 30th Dec 2024
	Koushik Guha Biswas	Intensifying Separation Processes by Energy Efficient Methods for Multiphase Flow Systems	Invited talk at Chemcon 2024 on December
3	Dr. G.K. Agrahari	CHEM TECHNOVA - 25	HBTU, Kanpur
4	Dr. Vivek Kumar	India Energy Week (IEW) 2025	11th- 14th Feb 2025, New Delhi
~~5~~	Dr. Milan Kumar	India Energy Week (IEW) 2025	11th- 14th Feb 2025, New Delhi

Special lectures delivered by faculty members in other institutions

S. No.	Name of faculty Member	Topic of Lecture	Institution	Date
1	Dr Arvind Singh	Need for Understanding	BIT Sindri Dhanad	25 September 2024
2	Dr. Vivek Kumar	Simulation of Chemical Processes	MMMUT Gorakhpur	4th- 8th Oct 2024

3	Koushik Guha Biswas	Intensifying Separation Processes by Energy Efficient Methods for Multiphase Flow Systems	NIT Jalandhar at Chemcon 2024	29.12.2024
4	Dr. Supriya Pulipaka	Advanced materials for production of hydrogen using photoelectron chemical water splitting	NIT Warangal	March 22nd 2025

Visits abroad by faculty members

S. No.	Name of Faculty Member	Country Visited	Date of Leaving india	Date of Returning India	Purpose of Visit	Funding from
1	Dr. Shweta	USA	12th October 2024	19th October 2024	Paper presentation in conference	RGIPT and ANRF (ITS)

Books, monographs authored/co-authored

S. No.	Name of Author/Co- Author	Title	Publisher
1	A. Tripathi, K. Sarkar, S. Patel , U. Mishra, KDP Nigam, D. Panda, K.G. Biswas,	Elucidating Flow-directed 98% CO_2 Absorption Using Millimeter-sized Coild Flow Inverters: Nanocellulose-aided Sustainable Scope	Elsevier
2	K.G. Biswas, R. Chowdhury, S. De,	Secondary pyrolysis process advancement leads to Sustainable Development, S. Poddar	Elsevier
3	A. Kumar, A. Anand, A. Tripathi, P.N. Singh, D. Panda, K.D.P. Nigam, K.G. Biswas,	A Sustainable Route of Mass Transfer for Liquid-Liquid Flow in Millimeter-sized Conduit: Unearthing the Potential of Argo waste-derived Nanomaterials	Springer
4	A. Tripathi, S. Pal, S. Patel, A. Das, K.D.P. Nigam, K.G. Biswas,	Flow Chemistry of Gallic Acid Condensation in Coiled Flow Inverter: Production of Highly Fluorescent Xanthene	Willey
5	M. Yadav, T. Sharma, A. Mahmood, K.G. Biswas	Synthesis, Stability, Rheological Characterization, and Application Potential of TiO2-PAM Nanofluids for Light Paraffinic Crude Oil Reservoir	Elsevier
6	Ajeet.K.Prajapati Aditya K, Rakesh K, Hardik Valera, Avinash Kumar Agarwal	Hydrogen Fuel in Internal Combustion Engines: Advancements and Challenges	Springer Nature
7	Ajeet.K.Prajapati Aditya K, Rakesh K, Hardik Valera, Avinash Kumar Agarwal	Alcohol for fueling IC Engines	Springer Nature

Design and Development Activities

New facilities added

S. No.	Details (Infrastructure, Equipments, etc.)	Value (in Lakhs of Rupees)
1	High pressure temperature packed bed reactor	27 lac approx
2	DC power source (supplies electricity to the electrolyzer)	14.36 approximate
3	Programmable Thermostat	12,22,395.00
4	Setup Performance Test for PV cell	2,85,000.00
5	Setup for Solar to Thermal Energy Conversion	4,55,000.00
6	Setup Performance Test of wind Machine	9,45,000.00

Patents filed

S. No.	Name of Faculty Member	Title of Patent
1	Dr. Deepak Dwivedi	BLISTER RESISTANT AND CORROSION RESISTANT ADDITIVE FOR RED OXIDE PRIMER, Patent No. 560868, (Granted)
2	Dr. Deepak Dwivedi	In-house inhibitors developed for ethanol blended fuel, application number -202411052810
3	Dr. Deepak Dwivedi	"Impact of Green Synthesized Corrosion Inhibitor on DSS2205 in Acidic and Brine Media"

Research and Consultancy

Sponsored research projects

S. No.	Title	Period	Funding Agency	Amount (in lakhs of Rs.)	Co- ordinator
1	Sustainable & Point-Source CO2 Capture Method: Role of Hydrodyanics on Gas-Liquid reaction	October 2024 to October 2027	UPCST	16.08 Lacs	Dr. K.G. Biswas
2	Methanol- Diesel blending to achive stable mixtures	2 years	NRL	83.00 Lacs	Dr. Shweta
3	Propylene/propane separation via Ziph 8 based composite membrane	February 2025 to February 2025	BPCL	6481085.00 + Taxes	Dr. V. S. Sistla

Faculty members' participation with other universities under MoUs Research Publications

S. No.		No.
1	Total Number of Papers Published in Refereed National Journals	
2	Total Number of Papers Published in Refereed International Journals	8
3	Total Number of Papers Presented in National Conferences	01
4	Total Number of Papers Presented in International Conferences	

Refereed International Journals

1. Harikeshwar Pandey, Ansu Pandey, Gunjan Kumar Agrahari, Biofuels, April 25.
2. Harikeshwar Pandey, Anshu Pandey, ASK Sinha, Gunjan Kumar Agrahari, Jpurnal of material cycles & waste management, July – 25.
3. Pragati Pandey, Gunjan Kumar Agrahari, Akansha Patel, Arvind Singh, Biodegradation, August – 25.
4. Conversion of rice straw and sugarcane bagasse waste to biochar through pyrolysis: influence of feedstock and process conditions.
5. Pyrolysis of rice-straw and mustard-oil residue blend: evaluation of biochar properties for its sustainable use.
6. Performance analysis of a multi-scale thermal energy storage system with varying volumes using polyurethane-encapsulated sodium sulphate decahydrate for building applications-Energy and Buildings (Elsvier-Science direct).
7. Uttam, A., Kumar, B., & Sistla, V. S. (2025). Performance analysis of a multi-scale scaled thermal energy storage system with varying volumes using polyurethane-encapsulated sodium sulphate decahydrate for building applications. *Energy and Buildings*, 116390. https://doi.org/10.1016/j.enbuild.2025.116390
8. Ajeet Kumar Prajapati, Shalu Yadav, Amit Kumar Gomey, Abhay Kumar Choubey, and Rakesh Kumar. "Assessment of Performance and Emission Characteristics of CI Engine Using Tyre Pyrolysis Oil and Biodiesel Blends by Nano Additives: An Experimental Study." Journal

of the Energy Institute, Elsevier, Vol. 117, (2024): 101825. https://doi.org/10.1016/j.joei.2024.101825.

9. Ajeet Kumar Prajapati, Abhishek Saini, Siddharth Atal, Saurabh Kumar, Gajendiran Mani, Ramesh Prabhu Vellaichamy, Lavanya Melcureraj, Rakesh Kumar, and Deepak Dwivedi. "Assessing the effect of different biodiesels on corrosion of nickel alloy." Materials Today Sustainability, Elsevier, Vol. 28, (2024): 100968. https://doi.org/10.1016/j.mtsust.2024.100968 (Indexing: SCIE/SCOPUS, IF: 7.9, SCImago Journal Rank: Q1)
10. Ajeet Kumar Prajapati, Syed Saim Ali, Khursheed B. Ansari, Moina Athar, Mohammed K. Al Mesfer, Mumtaj Shah, Mohd Danish, Rakesh Kumar, and AR Shakeelur Raheman. "Process intensification in biodiesel production using unconventional reactors." Fuel, Elsevier, Vol. 380 (2025): 133263. https://doi.org/10.1016/j.fuel.2024.133263. (Indexing: SCIE/SCOPUS, IF: 7.5, SCImago Journal Rank: Q1)
11. Ajeet Kumar Prajapati, Amit Kumar Gomey, Deepak Dwivedi, Rakesh Kumar. “Evaluating the performance of batch, tubular coiled and coil flow invertor reactors in biodiesel production from Karanja and used cooking oil”. Chemical Engineering and Processing - Process Intensification, Elsevier, Vol. 215, (2025),110375, https://doi.org/10.1016/j.cep.2025.110375 (Indexing: SCIE/SCOPUS, IF: 3.9, SC Imago Journal Rank: Q1).
12. Khursheed B. Ansari, Ajeet Kumar Prajapati, Syed Saim Ali, Mohammed K Al. Mesfer, Abubakr Elkhaleefa, Shakeelur Raheman A.R., Rakesh Kumar, Quang Thang Trinh “Comprehensive Review on Biomass Chemical Looping Combustion: Feedstock Type, Operating Conditions, Reactor Design, Technological Advancement, Mechanistic Insights, and Economics” Journal of Environmental Chemical Engineering, Elsevier, Vol.13 (2025) 116947. https://doi.org/10.1016/j.jece.2025.116947. (Indexing: SCIE/SCOPUS, IF: 7.4, SC Imago Journal Rank: Q1).
13. Optimization and evaluation of Eisenia fetida based vermicompost derived from fish processing waste, rice straw, and biogas slurry for sustainable agriculture.
14. PK Shirvastva, S Kumari, RKSingh, Arvind Singh, AK Choubey, Process Safety and Environmental Protection, 107225

Refereed National Journal

15. Synthesis, Stability, Rheological Characterization, and Application Potential of TiO2-PAM Nanofluids for Light Paraffinic Crude Oil Reservoir, M. Yadav, T. Sharma, A. Mahmood, K.G. Biswas, Materials Science & Engineering B, 323, 2026, 118773.
16. Flow Chemistry of Gallic Acid Condensation in Coiled Flow Inverter: Production of Highly Fluorescent Xanthene, A. Tripathi, S. Pal, S. Patel, A. Das, K.D.P. Nigam, K.G. Biswas, D. Panda, Chem Plus Chem, 2025, 00, e202500313, 1-10.
17. A Sustainable Route of Mass Transfer for Liquid-Liquid Flow in Millimeter-sized Conduit: Unearthing the Potential of Argo waste-derived Nanomaterials, A. Kumar, A. Anand, A. Tripathi, P.N. Singh, D. Panda, K.D.P. Nigam**, K.G. Biswas**, Waste and Biomass Valorization, https://doi.org/10.1007/s12649-025-03124-3, 2025.
18. Secondary pyrolysis process advancement leads to Sustainable Development, S. Poddar, K.G. Biswas, R. Chowdhury, S. De, Clean Technologies and Environmental Policy, 2025, https://doi.org/10.1007/s10098-025-03234-5.
19. Elucidating Flow-directed 98% CO_2 Absorption Using Millimeter-sized Coild Flow Inverters: Nanocellulose-aided Sustainable Scope, A. Tripathi, K. Sarkar, S. Patel , U. Mishra, KDP Nigam, D. Panda, **K.G. Biswas**, Chemical Engineering & Processing: Process Intensification, 205 (2024) 110022**.**

Proceedings of International Conferences

20. Presented a paper titled “Sustainable Biodiesel from Novel Feedstocks: Synthesis, Optimization, and Combustion Insights” at the International Conference on Research

Innovations (ICRI-2025), organized by ISRA and EIST (EU), held in Bali, Indonesia, from May 5–6, 2025.

Research Facilities



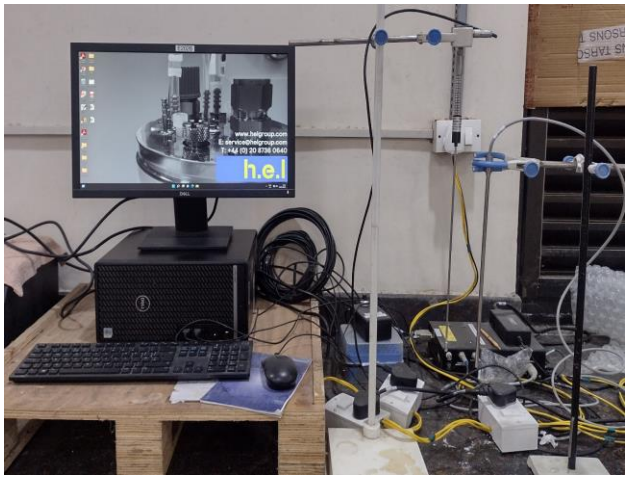
Capillary Flow Porometer



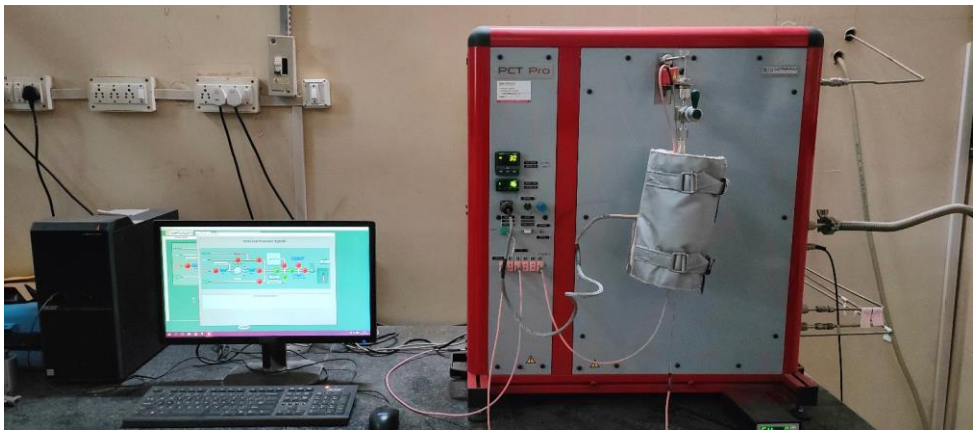
Electron Beam Evaporation Systems



Multi Channel Potentiostat/Galvanostat



Turbidity Sensor



Turbidity Sensor

Chapter-6

Department of Petroleum Engineering & Geoengineering

Year of Establishment: 2008
Head: Prof. Satish Kumar Sinha w.e.f. 5.10.2022

Brief Introduction of the Department/Centre:

Major areas of Research

Infrastructure

S. No.	Particulars	Number
1	No. of Classrooms	3Nos. (AB-1:LR2, L-4 & LR-5)
2	No. of Lecture Halls	
3	No. of Laboratory	6 Nos. (UG-4 & PG-2)
4	No. of Computers available for students in the Department/ Centre/ Centre	17 (for PG students)

Unique Achievement / Preposition of the Department/Centre

Academic Programmes offered

New Courses Introduced

S. No.	Course Code	Course name	Course credit
1	PE412	Drilling System Design	9
2	PE451	City Gas Distribution	6
3	PE452	LNG and NGL Fundamentals	6

Students on Roll

S. No.	Programme	I Year	II Year	III Year	IV Year
1.	B. Tech/B.Arch	55	56	43	27
2.	Ph. D (Under Institute Fellowship)	13			
3.	Ph. D (Under Project Fellowship)	3			
4.	Ph. D (Under Sponsored Category)	3			

Names of students/scholars who attended conferences/workshops/seminars and symposia abroad or in India

S. No.	Name of Student	Roll No.	Conference/Seminar/Symposia/Workshop	Date & Venue	Financial Assistance From
ÌNDIA					
1	Aditya Raj Kashyap	21PE3003	India Energy Week - 2025	11th – 14th Feb 2025, New Delhi	HPCL
2	Shashank Vajpayee	21PE3011	India Energy Week - 2025	11th – 14th Feb 2025, New Delhi	HPCL
3	Somaabha Bhattacharjee	21PE3012	India Energy Week - 2025	11th – 14th Feb 2025, New Delhi	HPCL
4	Jatin Kumar	21PE3025	India Energy Week - 2025	11th – 14th Feb 2025, New Delhi	HPCL
5	Tanishq Raj	21PE3023	India Energy Week - 2025	11th – 14th Feb 2025, New Delhi	HPCL
6	Amaresh Mishra	21PE3020	India Energy Week - 2025	11th – 14th Feb 2025, New Delhi	HPCL
7	Charu Smita	22PE3020	India Energy Week - 2025	11th – 14th Feb 2025, New Delhi	HPCL
8	Dev Verma	22PE3021	India Energy Week - 2025	11th – 14th Feb 2025, New Delhi	HPCL
9	Md Arhaan Ahmad	22PE3033	India Energy Week - 2025	11th – 14th Feb 2025, New Delhi	HPCL
10	Visheshwar	22PE3051	India Energy Week - 2025	11th – 14th Feb 2025, New Delhi	HPCL
11	Aniket Kumar Singh	22PE3008	Workshop on Carbon Capture and Storage (CCS) in Basalts	3rd – 5th Feb 2025, IIT Gandhinagar	EAGE
12	Ashutosh Jha	21PE3024	GeoIndia 2024	15th – 17th Nov 2024, Noida	RGIPT
13	Divyanshoo Singh	21PE0005	URJAVARTA 2025	17th July, 2025	DGH
14	Divyanshoo Singh	21PE0005	The International Conference on Petroleum, Hydrogen and Decarbonisation (ICPHD-2024)	December 14, 2024, IIT (ISM) Dhanbad	DST-SERB (ANRF)
15	Divyanshoo Singh	21PE0005	International Conference on	Divyanshoo Singh	21PE0005
16	Divyanshoo Singh	21PE0005	International Conference on Earth: From Archaean to Proterozoic (ICEAP-2024)	19th –	Divyanshoo Singh
17	Kaushal Kishore	21PE0006	40th Convention of Indian Association of Sedimentologists & National Conference on An Odyssey of Sedimentology from Precambrian to Anthropocene: Significant Contributions in Environmental Climatic and Energy Research	11-13th December 2024 BSIP Lucknow	BSIP Lucknow
18	Kaushal Kishore	21PE0006	8th National Geo-Research Scholars Meet	22-25 November 2024, Shri Mata Vaishno Devi University, Katra	Organizer - Wadia Institute of Himalayan

					Geology, Dehradun
19	Manish Srivastava	21PE0102	International Conference on Transforming Upstream: Breakthrough Technologies and Sustainability	30.9.2024-01.10.2024, RGIPT	RGIPT
20	Himanshu Jaiswal	22PE0003	International Conference on Transforming Upstream: Breakthrough Technologies and Sustainability	30.9.2024-01.10.2024, RGIPT	RGIPT
21	Gyan Prakash Tripathi	23PE0001	International Conference on Transforming Upstream: Breakthrough Technologies and Sustainability	30.9.2024-01.10.2024, RGIPT	RGIPT
22	Abdul Muttalib	24pe0001	Conference onTransforming Upstream: Breakthrough Technologies and Sustainability (ICTU-2024)	30th Sep and 1st Oct 2024,	RGIPT jais
23	Ayush Chandra	21pe0004 (External)	6th South Asian Geosciences Conference and Exhibition, organized by the Association of Petroleum Geologists (APG) GeoIndia-2024	15-17 Nov 2024,	Greater Noida.
24	Ayush Chandra	21pe0004 (External)	61st Annual Convention of Indian Geophysical Union (IGU),	3-5 Dec 2024,	Banaras Hindu University
25	Twamika Atri	22PE3050	2nd International Conference on Petroleum, Hydrogen, and Decarbonization (ICPHD 2024)	12th to 14th December 2024, IIT (ISM) Dhanbad	SERB
26	Vrinda Singh	22PE3052	2nd International Conference on Petroleum, Hydrogen, and Decarbonization (ICPHD 2024)	12th to 14th December 2024, IIT (ISM) Dhanbad	SERB
27	Sagar Kumar	22PE3042	2nd International Conference on Petroleum, Hydrogen, and Decarbonization (ICPHD 2024)	12th to 14th December 2024, IIT (ISM) Dhanbad	RGIPT
28	Ritansh Prabha	22PE3041	2nd International Conference on Petroleum, Hydrogen, and Decarbonization (ICPHD 2024)	12th to 14th December 2024, IIT (ISM) Dhanbad	RGIPT
29	Aniket K Singh	22PE3008	2nd International Conference on Petroleum, Hydrogen, and Decarbonization (ICPHD 2024)	12th to 14th December 2024, IIT (ISM) Dhanbad	RGIPT
30	Shailendra Singh		Indian Chemical Engineering Congress (IIChE) 2024	NIT Jalandhar, India. December 27-30, 2024	ANRF
31	Arin Kumar	22PE3053	International Conference on Petroleum, Hydrogen and Decarbonisation (ICPHD) 2024	IIT(ISM) Dhanbad, India. December 12-14, 2024	RGIPT
32	Aviral Sharma	22pe3013	International Conference on	IIT(ISM) Dhanbad,	ANRF

			Petroleum, Hydrogen and Decarbonisation (ICPHD) 2024	India. December 12-14, 2024	
33	Rajiv Choudhary		International Conference on Transforming Upstream	RGIPT Jais, India. September 30- October 1, 2024	
34	Somaabha Bhattacharjee & Anupam Giri	21pe3012 & 21pe3005	20th Annual Session of 11th Chemical Engineering Congress (SCHEMCON-2024)	RGIPT Jais, India. September 20-21, 2024	
35	Krishna Kumar Yadav	21PE0007	International Conference on Transforming Upstream: Breakthrough Technologies and Sustainability (ICTU 24)	30 Sept – 1st Oct 2024, RGIPT	RGIPT
36	Krishna Kumar Yadav	21PE0007	GIAN course on "Inverse Methods and Machine Learning: Applications in Geosciences"	June 23 to 27, 2025, IIT(ISM) Dhanbad	SELF
37	Jitendra Argal	20PE0007	International Conference on Transforming Upstream: Breakthrough Technologies and Sustainability (ICTU 24)	30 Sept – 1st Oct 2024, RGIPT	SELF
38	Ashvini Kumar Yadav	JRA	International Conference on Transforming Upstream: Breakthrough Technologies and Sustainability (ICTU 24)	30 Sept – 1st Oct 2024, RGIPT	UPCST PROJECT
39	Subhakant Bhokta	21PE3013	International Conference on Transforming Upstream: Breakthrough Technologies and Sustainability (ICTU 24)	30 Sept – 1st Oct 2024, RGIPT	RGIPT
40	Halari Darshan Kishorbhai	23PE0002	India Energy Week 2025	11th – 14th Feb 2025, New Delhi	FIPI, ONGC Project
41	MOHD SHAHZAR	23PE0006	India Energy Week 2025	11th – 14th Feb 2025, New Delhi	FIPI, ONGC Project
42	MOHD SHAHZAR	23PE0006	UrjaVarta 2024	11th – 12th July 2024	DGH
43	Zeyatarannum	23PE0009	International Conference on Transforming Upstream: Breakthrough Technologies and Sustainability (ICTU 24)	30 Sept – 1st Oct 2024, RGIPT	SELF
ABROAD					
1	Amaresh Mishra	21PE3020	IPTC 2025		SPE
2	Anupam Giri	21PE3005	APGCE 2024	19th – 21st Nov 2024, Kuala Lumpur, Malaysia	EAGE
3	Aniket Singh	22PE3008	APGCE 2024	19th – 21st Nov 2024,	EAGE

				Kuala Lumpur, Malaysia	
4	Aditya Agrawal	22PE3004	APGCE 2024	19th – 21st Nov 2024, Kuala Lumpur, Malaysia	EAGE
5	Divyanshoo Singh	21PE0005	International Geomechanics Conference	November 18–20, 2024, Kuala Lumpur, Malaysia	International Geomechanics Conference & RGIPT
6	A. Bardhan		17th International Conference on Nanostructured Materials (ICNM-NANO)	Abu Dhabi, United Arab Emirates, November 2024	SELF

Names of students/scholars who got prizes and awards outside the Institute

S. No.	Name of Student	Roll No.	Name of Prize	Date & Venue	Prize awarded by
1	Himanshu Jaiswal,	22PE0003	Silver medal in the quiz competition in a National workshop on "Rare Earth Elements, Rare Metals, and Strategic Minerals, REMS 2024," funded by Geochemical Society, USA	(30 November-02 December 2024), Department of Geology, Banaras Hindu University	Department of Geology, Banaras Hindu University
2	Kaushal Kishor	21PE0006	Best Creative Poster Award	11-13th December 2024 BSIP Lucknow	BSIP Lucknow
3	Sagar Kumar	22PE3042	2nd Best Poster, ICPHD 2024	14th December 2024, IIT (ISM) Dhanbad	IIT (ISM) Dhanbad
4	Ritansh Prabha	22PE3041	2nd Best Poster, ICPHD 2024	14th December 2024, IIT (ISM) Dhanbad	IIT (ISM) Dhanbad
5	MOHD SHAHZAR	23PE0006	Exemplary Performance in Technical Paper	11th -12th July 2024, Bharat Mandapam, New Delhi	UrjaVarta 2024, DGH, India

Faculty & Their Activity

Faculty and their areas of specialisation

S. No.	Name, Qualifications, Employee No.	Date of award of PhD Degree	Major Areas of Specialization (Max. 3 Areas)
Professors			
1	Prof. Alok Kumar Singh, 028	December 1997	Coal Geology, Coal & Organic Petrology, Thermal Maturation

2	Prof. Satish Kumar Sinha, PhD, 030	15 Dec 2006	Seismic Data Analysis, Geomechanics, Near Surface Geophysics
Associate Professors			
1	Dr. Shivanjali Sharma,141	15th May 2015	Drilling Fluid Design, Cementation and Flow Assurance
Assistant Professors			
1	Dr. Amit Saxena	9 November 2015	Cementation, Speciality Chemical Additives for oil and Gas, EOR
2	Dr. Hemant Kumar Singh	20 July 2018	Geomechanics, CO2 sequestration in Geological Formation, Shale Gas
3	Dr. Shailesh Kumar, Ph.D., Employee No.: 0240	9th October 2018	Flow Assurance, Drilling Fluid Design and Analysis, Enhanced Oil Recovery & CO_2 sequestration
4	Dr. Piyush Sarkar	Aug 2019	Geophysics, Rock Physics, Petrophysics
5	Dr. Amit Kumar, PhD, 0233	31st July 2020	EOR, Carbon Sequestration, Gas hydrate
6	Dr. Siddhant Kumar Prasad	13 Sep 2022	CO2 sequestration, Gas hydrates and unconventional resources, Enhanced Oil recovery
7	Dr. Sidharth Gautam	08/08/2022	Drilling, Rheology, Polymer
Visiting Faculty			
1	Mr. Arvind Bhatia		
2	Mr. Rajendra Kumar		

Short-term courses/workshops/seminars/symposia/conferences organised by faculty members

S. No.	Cordinator	Title	Period
1	Dr. Siddhant Kumar Prasad	Artificial Lifts for Oil and Gas Wells	14/12/2024 to 15/12/2024
2	Dr. Siddhant Kumar Prasad	Harnessing Computational Fluid Dynamics in the Energy Sector: Techniques and Applications (H_CFD-2025)	23/01/2025 to 25/01/2025
3	Dr. Shivanjali Sharma & Dr. Amit Saxena	International Conference on Transforming Upstream: Breakthrough Technologies and Sustainability (ICTU 24)	30 Sept – 1st Oct 2024
4	Dr. Shivanjali Sharma	12th Annual Student Convention-FIPI	4th April 2024
5	Dr. Shivanjali Sharma	SERB Sponsored Workshop on "Energy Transition-Sustainable Pathways"	3rd April 2024

Short-term courses/workshops/seminars/symposia/conferences/training programmes attended by faculty members in academic institutions and public sector undertakings

S. No.	Name of Faculty Member	Title	Period and Venue
Seminars/Symposia/Conferences			
1	Dr. Amit Kumar	SPE/JAPT Workshop: CCUS and Low Carbon Fuel, organized by SPE	11th – 12th March 2025, Japan
2	Dr. Siddhant Kumar Prasad	IITB-IEA Expert Level Workshop on 'Advancing CCUS and CDR in India	21/02/2025 to 23/02/2025

3	Dr. Hemant Kumar Singh	International Conference on Earth: Archean to Proterozoic (ICEAP-2024)	19th-21st December 2024, MLSU, Udaipur, Rajasthan
4	Dr. Hemant Kumar Singh	India Energy Week 2025	11th -14th February 2025, Delhi
5	Dr. Hemant Kumar Singh	ICTU-24	30th -1st October 2024, RGIPT
6	Dr. Hemant Kumar Singh	ICPHD-2024	12-14 December 2024, IIT (ISM), Dhanbad.
7	Dr. Piyush Sarkar	International Conference on Transforming Upstream: Breakthrough Technologies and Sustainability (ICTU) 2024	30-09-2024 to 01-10-2024; RGIPT Jais
8	Dr. Piyush Sarkar	National conference on "Emerging Trends in Earth Sciences: Geohazards and Resource Management (ETES-2024)	26-09-2024 to 29-09-2024; IIT (ISM, Dhanbad
9	Dr. Shailesh Kumar	International Conference on Petroleum, Hydrogen and Decarbonisation (ICPHD) 2024	IIT(ISM) Dhanbad, India. December 12-14, 2024
10	Dr. Shailesh Kumar	India Energy Week 2024	New Delhi, 11-14 Feb 2025
11	Prof. Satish Kumar Sinha	SEG Beneath the Surface: Innovations in Geoscience symposium	18–20 June 2025, Hyderabad
12	Prof. Satish Kumar Sinha	CII- Annual General Meting	30th May, 2025
13	Prof. Satish Kumar Sinha	6th South Asian Geosciences Conference and Exhibition,	15-17 November 2024
14	Prof. Satish Kumar Sinha	Indian Geophysical Union Conference, BHU	3-5 December 2024
15	Prof. Satish Kumar Sinha	India Energy Week (IEW) 2025	11th February 2025
16	Dr. Shivanjali Sharma	UrjaVarta 2024	11th – 12th July 2024
17	Dr. Amit Saxena	UrjaVarta 2024	11th – 12th July 2024
18	Dr. Shivanjali Sharma	India Energy Week (IEW) 2025	11th February 2025
19	Dr. Amit Saxena	India Energy Week (IEW) 2025	11th February 2025
20	Dr. Amit Saxena	Inauguration ceremony of the Regional SNF Technical Centre, INDIA	12th September 2024
Meetings			
1	Dr. Amit Saxena & Dr. Shivanjali Sharma	Project Review Meeting, OIL Duliajan	18th December 2024
2	Dr. Amit Saxena & Dr. Shivanjali Sharma	Project Initiation Meeting, OIL Jodhpur	13th October,2024
3	Dr. Shivanjali Sharma	Project Review Meeting, DST Project	11th November 2024

Special lectures delivered by faculty members in other institutions

S. No.	Name of faculty Member	Topic of Lecture	Institution	Date
1	Dr. Piyush Sarkar	Energy Resources	UGC-IIT (ISM): Malaviya Mission Teacher Training Programme: Six-day online Short term / Faculty development programme	January 13 – 18, 2025

2	Dr Amit Saxena	Invited Speaker for the 3rd International Conference on Energy, Functional Materials/Molecules and Nanotechnology (ICEFN-2025), "Unlocking India's, CO_2, Storage Potential: A step Towards Carbon Neutralit	Kumaon University	21 March 2025.
3	Prof. Satish Kumar Sinha	Resistivity Survey for Flood Prevention and Management in Lakhisarai	C-DAC, Patna	July 3, 2024
4	Prof. Satish Kumar Sinha	Webinar on Oil and Gas Exploration	National Learning Week – MoPNG	October 24, 2024

Visits abroad by faculty members

S. No.	Name of Faculty Member	Country Visited	Date of Leaving india	Date of Returning India	Purpose of Visit	Funding from
1	Dr. Amit Kumar	Japan	9th March 2025	13th March 2025	Presenting in SPE/JAPT Workshop: CCUS and Low Carbon Fuel, organized by SPE	ANRF – ITS, and CPDA

Fellowships of academic and professional societies

S. No.	Name of Faculty Member	Details of Fellowship
1	Prof. Alok Kumar Singh	Elected fellow of the Geological Society of India. Full members of the International Committee for Coal & Organic Petrology
2	Prof. Alok Kumar Singh	Elected fellow of the Geological Society of India. Full members of the International Committee for Coal & Organic Petrology

Books, monographs authored/co-authored

S. No.	Name of Author/ Co- Author	Title	Publisher
1	Piyush Sarkar, Kumar Hemant Singh, T.N. Singh, Ranjana Ghosh	Laboratory Characterization of Shale: Measurement and Simulation	Springer Geophysics. Springer Nature Switzerland AG 2025
2	Dr Amit Saxena	Chapter 10: Synthetic natural gas from coal, Rahimpour - Adv. in Nat. Gas Vol. 1 - Natural Gas Formation and Extraction, Dr. Amit Saxena, Elsevier, 2024. https://doi.org/10.1016/B978-0-443-19215-9.00004-9.	Elsevier

Editorial boards of journals

S. No.	Name of Faculty Member	Position (Editor/ member)	Name of Journal
1	Dr. Shivanjali Sharma	Editorial Advisory Board Member	ACS Energy & Fuels

Design and Development Activities

New facilities added

S. No.	Details (Infrastructure, Equipments, etc.)	Value (in Lakhs of Rupees)
1	Stirred Pressure Reactor Autoclave	24.92
2	Core cutting machine	2.5 lakh approx

3	Microwave-based Heater Treater	13 Lakhs
4	Low Temperature High Efficiency Vacuum Dryer	5.91 Lakhs approx.

Patents filed

S. No.	Name of Faculty Member	Title of Patent
1	Dr Amit Saxena and Dr Shivanjali Sharma	Filed a patent with HMEL in Feb 2025 for the development of drag-reducing
2	Dr Amit Saxena and Dr Shivanjali Sharma	Filed a patent with ONGC Mehsana in 2025 for the development of a microwave-based separator.

Research and Consultancy

Sponsored research projects

S. No.	Title	Period	Funding Agency	Amount (in lakhs of Rs.)	Co-Ordinator
1	Study of hydrate promoters for development of transport system for CO2 as gas hydrate	January 2024 to January 2026	SERB	31.97	Dr. Amit Kumar
2	CO2 sequestration in marine hydrate reservoirs with simultaneous energy recovery	August 2023 - Ongoing	RGIPT	10	Dr. Siddhant Kumar Prasad
3	Development of Synthetic Polymer-based Reservoir Drilling and Completion Fluid for High-pressure and High-temperature wells: Fluid Invasion Modeling and Mitigation	11/01/2024 – 10/01/2027	SERB	28 Lakhs	Dr. Sidharth Gautam
4	Feasibility Study on the Effect of Electromagnetic Radiation on Thermal Upgradation of Baghewala Heavy Crude Oil	13 December 2024-12 February 2024	OIL Jodhpur	4.625	Dr Amit Saxena & Dr Shivanjali Sharma
5	Study and one-step solution for downhole problems of Oil India Limited using multifunctional drilling fluid additive	June 2023-September 2025	Oil Duliajan	19.625	Dr Shivanjali Sharma & Dr Amit Saxena
6	Development and Evaluation of Nanocomposite-Pour Point Depressants (N-PPDs) to Improve the Flow Behaviour of Indian Waxy Crude Oils for Pipeline Transportation	2023-26 (3 years)	DST-ANRF	24.68 Lakh	Dr. Shailesh Kumar
7	Detection & Mapping of underground utilities for smart city development using non-destructive Geophysical method, Ground Penetrating Radar	Dec 2023 to Dec 2026	UPCST	14.58	Prof. Satish Kumar Sinha

Faculty members' participation with other universities under MoUs Research Publications

S. No.		No.
1	Total Number of Papers Published in Refereed National Journals	1
2	Total Number of Papers Published in Refereed International Journals	36
3	Total Number of Papers Presented in National Conferences	14
4	Total Number of Papers Presented in International Conferences	10

Refereed International Journals

1. Prasad, S. K., Kumar, Y., Bhawangirkar, D. R., Gaikwad, N., & Sangwai, J. S. (2024). Direct Flue Gas Injection into Ocean for Simultaneous Energy Recovery and CO2 Sequestration in Solid Hydrate Reservoirs. Energy & Fuels, 38(17), 16622-16637.
2. Singh, D., Nilankar, K., Singh, H.K., Kumar, A., Vishal, V. and Mustapha, K.A., 2025. Multiscale Characterization of Pore Evolution in Lesser Himalayan Black Shale from Krol Formation under Oxic Thermal Heating: Relevance to Untapped Shale Gas Extraction. Energy & Fuels.
3. Ansari, T.A., Singh, H.K., Mahanta, B.C., and Singh, T.N., 2025. Fracture toughness of three Indian crystalline rocks: Insights from acoustic emission analysis: TA Ansari et al. Journal of Earth System Science, 134(2), p.121.
4. Singh, D., Nilankar, K., Singh, H.K., and Ram, B.K., 2025. Impact of water saturation on physico-mechanical properties of fragile chandpur phyllite at varying foliation angles. Geotechnical and Geological Engineering, 43(1), p.2.
5. Nilankar, K., Singh, D., Singh, H.K., Kumar, A., and Mustapha, K.A., 2024. Evolution of Pore Morphometry and Compositional Changes in Immature Raniganj Shale under Heated Environment: Implications for Enhanced Gas Recovery. Energy & Fuels, 38(22), pp.22128-22145.
6. Nilankar, K., Singh, D., Singh, H.K. and Han, G., 2024. Characterization and behavior of Raniganj shale under a heated environment. Fuel, 366, p.131377.
41. 7.Jaiswal, H, and Singh, A. K., 2025. Coal as a non-conventional resource of Rare Earth Elements (REEs) and Trace Elements: Benefits and Impacts on Environment and Human Health - A Review, In Press, Results in Earth Sciences
7. Kishor, K., Srivastava, M.K., and Singh, A.K., 2025: Characterization of surface and structural properties of Permian coals from Sohagpur Coalfield, India: A comprehensive analysis. In Press, International Journal of Oil, Gas and Coal Technology
42. 9.Srivastava, M.K., Kishor, K., Singh, A.K., Soumyajit Mukherjee and Shivranjan Kumar Bharti, 2025: Tectonically deformed coal: Focus on microstructures & implications for basin evolution. Marine and Petroleum Geology, In Press, Vol. 172. https://doi.org/10.1016/j.marpetgeo.2024.107223
43. 10.Kishor, K., Srivastava, M.K. and Singh, A.K., 2024: Pore Characteristics and Gas Adsorption Properties of Permian Coals in Sohagpur Coalfield, India: A Comprehensive Multi-Analytical Study. Energy & Fuels, Vol. 39, pp.349−361, https://doi.org/10.1021/acs.energyfuels.4c04722
44. 11.Singh, A., Chaturvedi, K.R., Abdullah, M.M.S., Stefan, I., Singh, A.K., and Sharma, T., 2024: Polymeric Nanofluids of Oilfield Polymers for Subsurface Flow Applications: Synthesis, Interfacial, and Rheological Analysis. Colloids and Surfaces A: Physicochemical and Engineering Aspects, Volume 707, 20 February 2025, 135913. https://doi.org/10.1016/j.colsurfa.2024.135913
45. 12.Kumar, A., Mustapha, K. A., Singh, A.K., Haikimi, M.H., Kahal, A.Y., Nassem, W. and Hasnan, H.K., 2024. Evaluating the hydrocarbon generation potential of the Paleocene-Eocene carbonaceous rocks in the Barmer and Bikaner-Nagaur Basins, western Rajasthan, India. China Geology, Vol 7, pp.1-15
46. 13.Srivastava, M.K., Kishor, K. and Singh, A.K., 2024: A comprehensive petrochemical study of coals of Jaintia Hills: unveiling their industrial applicability and potential as hydrocarbon

source rocks. International Journal of Coal Preparation and Utilization, pp. 1-15, https://doi.org/10.1080/19392699.2024.2353130

47. 14.Srivastava, M.K., Kishor, K., Nath, M. and Singh, A.K., 2024: Inorganic geochemical attributes of Jaintia Hills coals, India: Implications for paleo-depositional conditions. Kuwait Journal of Science, V.54, pp.1-11.
48. 15. Hakimi, M.H.; Kumar, A.; Alqubalee, A.M.; Singh, A.K.; Almobarky, M.; Rahim, A.; Alqudah, M.; Lashin, A.; Mustapha, K.A.; Naseem, W. M, 2024: Mineralogy and Geochemistry of the Paleocene–Eocene Palana Formation in Western Rajasthan, India: Insights for Sedimentary Paleoenvironmental Conditions and Volcanic Activity. Minerals, 14, 126, pp. 1-32
49. 16.Kumar, A., Singh, A.K. and Christanis, K., 2024: Paleodepositional environment and hydrocarbon generation potential of the Paleogene lignite in the Barmer Basin, Rajasthan, India. Journal of Asian Earth Sciences, V. 259 (105892), pp.1-32
50. 17.Chandra, A., Sarkar, P., Singh K.H., Singh, T.N. 2025. A comprehensive study on topology of pore systems of Lower Gondwana shale using pore-scale 2D micrographs. Journal of Earth System and Sciences. 134(57), 1-18.
51. 18.Brijesh Kumar; Ravi Kant; S. P. Maurya; G. Hema; Piyush Sarkar; K. H. Singh; S. K. Sharma. 2025 Reservoir characterization using simultaneous inversion of pre-stack seismic data based on traditional conjugate gradient methods and particle swarm optimization: A comparative case study. Earth Science Informatics. 18(137), 1-14.
52. 19.S.P. Maurya; Nitin Verma; Ravi Kant; G. Hema; Raghav Singh; K.H. Singh; Piyush Sarkar. 2025 Seismic inversion based on principal component analysis and probabilistic neural network for prediction of porosity from post-stack seismic data. Earth Science Informatics. 18(1), 1-24.
53. 20.Shukla, A., Sahoo, S., & Sarkar, P., 2024. Assessment of micro-structure and flow entrapment in Indian Gondwana shale reservoir using digital rock analysis. Marine and Petroleum Geology, 169. https://doi.org/10.1016/j.marpetgeo.2024.107066
54. 21.Kant, R., Hema, G., Maurya, S.P., Singh, R., K. H., & Sarkar, P. (2024) Enhancing porosity prediction: integrating seismic inversion utilizing sparse layer reflectivity, and particle swarm optimization with radial basis function neural networks. Geophysical Prospecting. 73(1), 49–66. https://doi.org/10.1111/1365-2478.13651
55. 22.Kant, R., Kumar, B., Maurya, S.P., Hema, G., Singh, R., Singh, K. H., and Sarkar, P., 2024 Identification of the reservoir using seismic inversion based on particle swarm optimization method: A case study. Journal of Earth System and Sciences, 133:227. doi.org/10.1007/s12040-024-02436-7.
56. 23. Gautam, S., Kumar, S., Kumar, A., Rajak, V.K. and Guria, C., 2025. Development of functional polymer-based clay-free HPHT drilling fluid: Effect of molecular weight and its distribution on drilling fluid performance. Geoenergy Science and Engineering, 246, p.213616.
57. 24 . Choudhary, R., Singh, S., Kumar, S., Gautam, S. and Kumar, A., 2026. Performance evaluation of a zwitterionic surfactant for the emulsification of an Indian heavy crude oil for pipeline transportation. Fuel, 405, p.136547.
58. 25.Shahzar, Mohd, Sharma, Shivanjali, Saxena, Amit, and Satyajit Chowdhury. "Performance Assessment of Graphene Oxide Nanosheets for Enhancing Oilwell Cement Integrity Under High-Pressure High-Temperature Conditions." SPE J. 30 (2025): 1867–1883. doi: https://doi.org/10.2118/225412-PA

59. 26.Halari, Darshan et al. 2025. “Enhanced Oil Recovery Using Carbonated Polymeric Nanofluids: A New Age Approach to CO2 Utilization and Corrosion Mitigation.” Journal of Industrial and Engineering Chemistry. https://www.sciencedirect.com/science/article/pii/S1226086X25001261.
60. 27.Mohd Shahzar, Nayan Moni Kalita, Reza Azin, Shahriar Osfouri, Shivanjali Sharma, and Amit Saxena Energy & Fuels 2024 38 (16), 15182-15193, DOI: 10.1021/acs.energyfuels.4c02492
61. 28.Anirudh Bardhan, Saurabh Kumar, Surita Basu, Anurag Pandey, Himanshu Kesarwani, Amit Saxena, Jayati Sarkar, Shivanjali Sharma, and Shailesh Kumar, Energy & Fuels Article ASAP, DOI: 10.1021/acs.energyfuels.4c02548
62. 29.Pandey, Anurag et al. 2024. “Sustainable Potassium-Doped Graphene Oxide from Oak Fruit Agricultural Waste for a Synergistically Improved Nanofluid-Surfactant Slug for Enhancing Oil Recovery.” Fuel 372(June): 132251. https://doi.org/10.1016/j.fuel.2024.132251.
63. 30.Khan, Fahad, Bardhan, Anirudh, Kumar, Praveen, Yadawa, Yogendra, Sharma, Shivanjali, Saxena, Amit, and Amit Ranjan. "Performance Assessment of Bismuth Ferrite Nanoparticles in Enhancing Oilwell Cement Properties: Implications for Sustainable Construction." SPE J. (2024;): doi: https://doi.org/10.2118/221469-PA
64. 31.Darshan Halari, Shivam Yadav, Himanshu Kesarwani, Amit Saxena, Shivanjali Sharma“Nanoparticle- and Surfactant-Stabilized Carbonated Water-Induced In Situ CO2 Foam: An Improved Oil Recovery Approach”. 2024, Energy and Fuel, ACS. DOI: 10.1021/acs.energyfuels.3c04232.
65. 32.Anirudh Bardhan, Sushipra Vats, Deepak Kumar Prajapati, Darshan Halari, Shivanjali Sharma, Amit Saxena; “Utilization of mesoporous nano-silica as high-temperature water-based drilling fluids additive: Insights into the fluid loss reduction and shale stabilization potential”, Geoenergy Science and Engineering, Volume 232, Part A, 2024, 212436. https://doi.org/10.1016/j.geoen.2023.212436.
66. 33.Waquar Kaleem, Kashan Ahmed Khan & Amit Saxena, “Statistical feature engineering using discrete wavelet transform: a tool for improving the prediction of compressional and shear sonic travel time logs”, Petroleum Science and Technology, 2023. DOI: 10.1080/10916466.2023.2292781.
67. 34. Gautam, R., Hazra, A., Faujdar, P., Sen, S., Mishra, B. C., Sharma, T., & Kumar, S. (2024). Effect of Size-Controlled Nanofluid on Mechanical Properties, Microstructure, and Rheological Behavior of Cement Slurry for Oil Well Cementing. *ACS Omega*, *9*(48), 47739–47755. https://doi.org/10.1021/acsomega.4c07871
68. 35. Bardhan, A., Kumar, S., Basu, S., Pandey, A., Kesarwani, H., Saxena, A., Sarkar, J., Sharma, S., & Kumar, S. (2024). Mechanistic Performance of Modified Carbon Nanotubes Stabilized in Water-Based Drilling Fluids for High-Temperature Applications. *Energy & Fuels*, *38*(17), 16066–16078. https://doi.org/10.1021/acs.energyfuels.4c02548
69. 36. Abul Aas, A., Sinha, S. K., Yadav, K. K., & Argal, J. (2025). Shear wave velocity-based liquefaction geohazard study of alluvial deposit in the south of the foothills of tectonically active Himalayan region. Journal of Applied Geophysics, 241, 105818. https://doi.org/10.1016/j.jappgeo.2025.105818
70. 37. Bardhan, A., Singh, A., Nishanta, H., Sharma, S., Choubey, A. K., & Kumar, S. (2024). Biogenic Copper Oxide Nanoparticles for Improved Lubricity and Filtration Control in Water-

Based Drilling Mud. Energy & Fuels, 38(10), 8564–8578. https://doi.org/10.1021/acs.energyfuels.4c00635

Refereed National Journal

1. Vishal, A., Jha, A., & Prasad, S. K. (2024, October). Machine Learning Algorithms and Statistical Methods for Investigating Hydrate Promoters for CO2 Sequestration in Marine Hydrate Reservoirs. In ISOPE Pacific/Asia Offshore Mechanics Symposium (pp. ISOPE-P). ISOPE.

Proceedings of International Conferences

1. Singh, D., Kumar, N., Singh, H.K. (2024). Influence of Sample Geometry and Foliation Plane on Axial Point Load Testing of Anisotropic Rock. International Geomechanics Conference on the Role of Geomechanics for Sustainability and Energy Efficiency. November 8-20, Kuala Lumpur, Malaysia.
2. Singh, D., Singh, H.K. (2024). Physico-mechanical Characterization of Precambrian Granite: An Implication to HDR Geothermal Reservoir. International Conference on " Earth : From Archaean to Proterozoic " (ICEAP - 2024), December 19-22, Udaipur, Rajasthan, India.
3. Singh, D., Singh, H.K. (2024). Impact of Combustion on the Multiscale Structure of Raniganj shale: An implication in Enhanced Gas Recovery. International Conference on Petroleum, Hydrogen and Decarbonisation (ICPHD-2024) Sustainability through energy transition, December 11-14, Dhanbad, Jharkhand, India
4. Singh, D., Singh, H.K., (2024).Thermal Effects on Pore Attributes and Surface Morphology of Shale. International Conference on Transforming Upstream, September 30 to October 1, Amethi, U.P., India.
5. Saroj, A. Muttalib, and P. Sarkar, 2024. Predicting Elastic Properties of Reservoir Rocks: Implications for CO_2 Sequestration and Gas Hydrate Extraction in the Krishna-Godavari Basin, India. In: International Conference on Transforming Upstream: Breakthrough Technologies and Sustainability (ICTU-2024) 30th Sep and 1st Oct 2024, Organized by Department of Petroleum Engineering and Geoengineering, RGIPT Jais, Amethi.
6. 6.Ayush Chandra, Piyush Sarkar, Akash Chandra, 2024 Micro-fracture Characterization and its connectivity analysis using high-resolution images of Indian Gondwana Shale: Unveiling Unconventional Reservoir Complexity. In 6th South Asian Geosciences Conference and Exhibition, organized by the Association of Petroleum Geologists (APG) GeoIndia-2024, 15-17 Nov 2024, Greater Noida.
8. Bardhan, A., Halari, D., Pandey, A., Saxena, A., Sharma, S., Kumar, S. (2025). Exploring the Role of Vinyl Copolymers in Next-Generation Water-Based Drilling Fluids for Geothermal Wells. In: Singh, A., Tiwari, P., Kumar, S., Kakati, A. (eds) Proceedings of 1st International Conference on Petroleum, Hydrogen and Decarbonization. ICPHD 2023. Lecture Notes on Multidisciplinary Industrial Engineering. Springer, Singapore. https://doi.org/10.1007/978-981-96-3667-9_10
9. Halari, D., Bardhan, A., Pandey, A., Sharma, S., Saxena, A. (2025). High-Performance Carbonated Water Injection Using Novel Tetrapolymer and ZnO Nanoparticles: A Sustainable Approach for Improved Oil Recovery and Decarbonization. In: Singh, A., Tiwari, P., Kumar, S., Kakati, A. (eds) Proceedings of 1st International Conference on Petroleum, Hydrogen and

Decarbonization. ICPHD 2023. Lecture Notes on Multidisciplinary Industrial Engineering. Springer, Singapore. https://doi.org/10.1007/978-981-96-3667-9_1

10. Argal, J., & Sinha, S. K. (2024). Assessment of hydrocarbon prospects in pre-Tertiary sequences within the Ganga Basin, India. 85th EAGE Annual Conference & Exhibition (pp. 1–5). Oslo, Norway. https://doi.org/10.3997/2214-4609.2024101508

Proceedings of National Conferences

1. Singh D., Singh, H.K. (2025). Pore Structure Evolution in Lesser Himalayan Krol Shale under Combustion: Implications for Untapped Shale Gas Recovery. 17th July, Delhi.
2. Singh, H.K. (2024). Application of 3D Scanning in Reconstructing Surface Morphology of Rock Discontinuities onto the saw-cut block using 3D Carving Techniques. Geosciences for Sustainable World (GSW-24), March 6-7, Varanasi, India.
3. Singh D., Kumar, N, Singh, H.K. (2024) Variations in Physico-mechanical Properties of Jodhpur Limestone under Simulated Acid Rain Condition. Geosciences for Sustainable World (GSW-24), March 6-7, Varanasi, India (Full Paper Accepted for book chapter).
4. Kumar, N, Singh, D., Singh, H.K. (2024). A comparative study of Pore attributes between Gondwana Shale and Lesser Himalayan Shale. Geosciences for Sustainable World (GSW-24), March 6-7, Varanasi, India.
5. Kishor, K., Srivastava, M.K., and Singh, A.K. 2024: Genesis and characteristics of the cleat system in coal and its impact on coal porosity and permeability at the National Conference on Geosciences for a Sustainable World 2024 at the Department of Geophysics, Banaras Hindu University, Varanasi, India (6th and 7th March 2024), p.147
6. Ismail, M.H., Srivastava, M.K., Kishor, K., and Singh, A.K. 2024: A comprehensive study on the different ranks of Indian coals to test the stability of different formulas given to predict the gross calorific value (GCV) in the National Conference on Geosciences for a Sustainable World 2024 at the Department of Geophysics, Banaras Hindu University, Varanasi, India (6th and 7th March 2024), pp.111-112
7. Jaiswal, H. and Singh, A.K. 2024: Status of REEs in the Indian Scenario in National conference on Geosciences for Sustainable World -2024 at Department of Geophysics, Banaras Hindu University, Varanasi, India (6th and 7th March 2024) p.111
8. Kishor, K., Srivastava, M.K., Tripathi, G.P. and Singh, A.K. 2024: Hydrocarbon Potential of Sohagpur Coal Seams: Unlocking Sustainable Energy Prospects through Pore and Fracture Characterization in 8th National Geo-Research Scholars Meet at Shri Mata Vaishno Devi University, Katra organized by Wadia Institute of Himalayan Geology, Dehradun-India (22-25 November 2024).
9. Kishor, K., Srivastava, M.K., Tripathi, G.P. and Singh, A.K. 2024: Multi-analytical approach to investigate paleoclimate and paleo-depositional conditions of coal samples from Sharda coal mine of Sohagpur coalfield, India in 40th Convention of Indian Association of Sedimentologists & National Conference on An Odyssey of Sedimentology from Precambrian to Anthropocene: Significant Contributions in Environmental Climatic and Energy Research organized by Birbal Sahni Institute of Palaeosciences, Lucknow (11-13th December 2024).
10. Kumar, A; Singh, A.K. and Singh, P.K., 2025: Organic Petrology as a tool for source rock characterization and paleoenvironment indicator during peat accumulation. National Conference on Innovations in Coal & Mineral Characterization for Sustainable Resource

Utilization (ICMCS-2025), 30-31 January 2025, at Fairfield by Marriott, Newtown, Kolkata, India

11. Ayush Chandra, Piyush Sarkar, Swarandeep Sahoo, Akash Chandra, T. N. Singh, K. H. Singh, 2024. Fractal and pore characteristics of lower Indian Gondwana shale. National Conference on Emerging Trends in Earth Sciences: Geohazard and Resource Management (ETES-2024) 27th-29th Sep 2024, Organized by Department of Applied Geophysics, IIT (ISM) Dhanbad.
12. Ayush Chandra, Piyush Sarkar, Akash Chandra, 2024 Quantification of Microfractures Indian Gondwana Shale: An Image Processing Approach. In Advances in Earth System Sciences with special reference to weather and climate, 3-5 Dec 2024, 61st Annual Convention of Indian Geophysical Union (IGU), Banaras Hindu University.
13. Sinha, S.K. and Argal J. (2024). Breakout Inversion for Quantifying Horizontal In-Situ Stress Fields in Assam-Arakan Basin, 6th South Asian Geosciences Conference and Exhibition, 15-17 November 2024
14. Sinha, S.K. and Aas, A. (2024). A novel field technique for constructing 2D shear wave velocity profile for subsurface by utilizing MASW method, Indian Geophysical Union Conference, BHU, 3-5 December 2024

Distinguished Visitors

S. No.	Name of the visitor & Designation	Date of Visit	Purpose of Visit
1	Kaustav Nag, Reguram Krishna, Subhayan Dasgupta	21st December 2024	Govt policies & initiatives in the Indian E&P sector
2	Mr. Shubham Goswami, Senior Reservoir Engineering at SLB	February 17, 2025	Industry Academia Interaction
3	Dr. Neeraj Mathur	September 15, 2023	Orientation Program
4	Shri. Vinod Seshan, Joint Secretary, MOPNG	30th September 2024	ICTU 2024 Inauguration
5	Ms. Sushma Rawat, Director (Exploration), ONGC	30th September 2024	ICTU 2024 Inauguration
6	Mr. Sachiv Kumar, ADG, DGH	30th September - 1st October 2024	ICTU 2024
7	Mr. Deb Adhikari, Director (Exploration & Production), FIPI	30th September - 1st October 2024	ICTU 2024
8	Mr. Aditya Kumar, Director – Petroleum Engineering, Telesto Energy	30th September - 1st October 2024	ICTU 2024
9	Prof. Vikram Vishal, IIT Bombay	30th September - 1st October 2024	ICTU 2024
10	Mr. Shital Khot, CMD, SNF Flopam India Pvt. Ltd.	30th September - 1st October 2024	ICTU 2024
11	Mr. Himanshu Kumar Jain, Country Operation Manager, Halliburton India	30th September - 1st October 2024	ICTU 2024
12	Mr. Vinay Bhardwaj, CEO, Rezlytix	30th September - 1st October 2024	ICTU 2024

Other activities

International collaboration/achievements by the Department/Centre

Indian Faculty visits in the Department/Centre/Centre

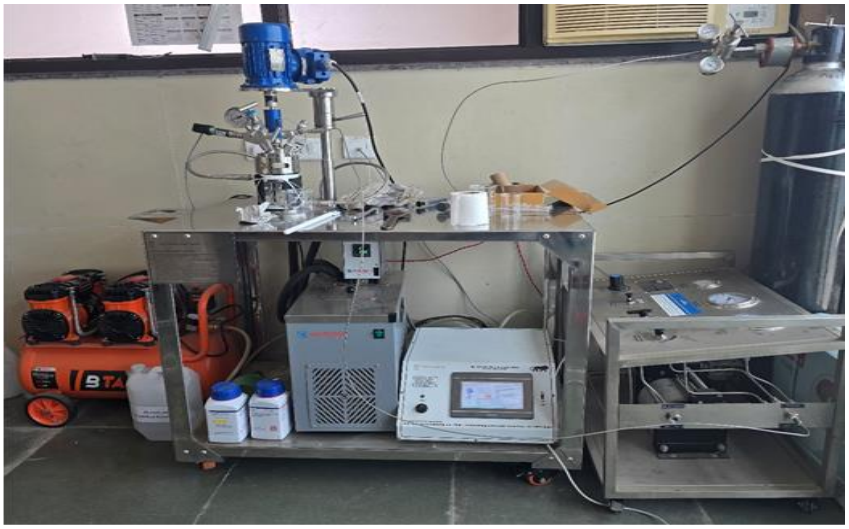
S. No.	Name of Faculty Member	Purpose of Visit	Date and Venue
1	Dr. Piyush sarkar	External Examiner for Viva	22-05-2025, Department of Geophysics, Banaras Hindu University
2	Dr. Piyush sarkar	Examination related matter	28th to 30th May 2025, UPSC office, New Delhi
3	Dr. Piyush sarkar	Examination related matter	19th Feb 2025 to 20th Feb 2025, UPSC office, New Delhi

Foreign Faculty Visits in the Department/Centre/Centre

S. No.	Name of Faculty Member	Purpose of Visit	Date and Venue
1	Dr. Farooq Al Jahwari, Sultan Qaboos University	Delivered Lecture in ICTU 2024	30th September - 1st October 2024, RGIPT, Jais

Any other Information

- 4 students did their summer internship through RIPE program at RGIPT
- Webinars organized:
  - Role of AI/ML in the Energy Sector – Easing Exploration, Enhancing Production & Driving Sustainability - Mr. Bhaskar Chandra Chawda, Machine Learning expert, Lead Software Developer, ExxonMobil, 22 June 2025 (AAPG Student Chapter)
  - Monitoring, Measurement, and Verification in CCS - Dr. Debasis Priyadarshan Das, CCS Geologist Study Lead at PETRONAS, 19 January 2025 (AAPG Student Chapter)
  - Career Planning in Oil &Gas - Mr. Praveen Tiwari, August 31, 2024
- Geosoftware renewed its academic license for the year.
- Prof. Satish Kumar Sinha has been nominated for the National Gas Hydrate Program (NGHP)
- Five students participated in the Imperial Barrel Award (2025) competition
  - ABHAY SINGH
  - LOPAMUDRA SHARMA
  - KISHAN RAJ
  - MD ARHAAN AHMAD
  - PRACHI PANDEY
- PETEX License was renewed for the year.
- Industrial visit and Field trip in Dehradun from 4th to 10th April, 2025
- Mansi Sisodiya was selected for SEG Chevron SLS program 2025
- AAPG Student Chapter organized Geosprint on February 6, 2025
- KINGDOM Academic license renewal – December 2024
- Seven students from Dibrugarh University Institute of Engineering and Technology, (DUIET) completed summer internship in our department in the year 2024.



Stirred High Pressure Reactor Cell



Microwave based 3-phase Separator

Chapter-7
Department of Electronics Engineering

Year of Establishment: 2020
Head: Dr. Umakant Dhar Dwivedi (w.e.f. 11 June, 2020)

Brief Introduction of the Department/Centre:

The Department of Electrical and Electronics Engineering offers undergraduate (B. Tech) in Electronics Engineering and Electrical Engineering (Major in EV). For undergraduate studies, subjects related to **Microelectronics and VLSI, Communication Systems Engineering, Electrical Machines, Power Electronics, Electric Drives, Electric Vehicles, Digital Techniques and Instrumentation, Control Systems, and Power Systems** are accommodated for a wide knowledge of the various fields of electrical and electronics. The subjects offered in the curriculum are designed such that they cover almost all the significant subjects dedicated to industrial applications along with the fundamental concepts. The department also offers doctoral programs in emerging areas of Electrical & Electronics Engineering. Along with this, advanced courses on Embedded systems, AI/ML and Signal processing applications Internet of Things (IoT), Renewable Energy Integration, and Advanced Motor Control, are also incorporated in the syllabus to make students industry ready. The department has experienced and well-qualified faculty. Faculty members are actively involved in research activities. The major areas of faculty expertise of the department include but are not limited to Power electronics, Electrical drives, Renewable Energy, Communication, Antenna, Microwave, Microelectronics, MEMS, Opto-electronic devices Machine Learning, and Signal Processing Applications. The Department actively involves and encourages interdisciplinary research for industry-oriented applications.

Major areas of Research

1. Electric Vehicle Technologies
2. AI, ML and signal processing
3. Green Energy and smart grid
4. Communication and IoT
5. Power Electronics and Advanced Motor Drive Control
6. Microelectronics IC design
7. Battery Management and Charger Design for EV applications

Infrastructure

S. No.	Particulars	Number
1	No. of Classrooms	1
2	No. of Lecture Halls	1
3	No. of Laboratory	9
4	No. of Computers available for students in the Department/Centre/ Centre	53

Unique Achievement / Preposition of the Department/Centre

Academic Programmes offered

New Courses Introduced

S. No.	Course Code	Course name	Course credit
1	EEV333	Digital Control	9
2	EEV331	Sensors, Actuators and Control for Electric Vehicles	9

Students on Roll

S. No.	Programme	I Year	II Year	III Year	IV Year
1	B. Tech/B.Arch	74	71	77	19
2	Ph. D (Under Institute Fellowship)	1	2	1	5

Names of students/scholars who attended conferences/workshops/seminars and symposia abroad or in India

S. No.	Name of Student	Roll No.	Conference/Seminar/ Symposia/Workshop	Date & Venue	Financial Assistance From
			ÌNDIA		
1	Mohd. Hannan	23EE0004	IEEE UPCON Lucknow	December & Lucknow	RSG
2	Mohd. Hannan	23EE0004	IEEE ICCES Coimbatore	December & Coimbatore	Self
3	Mohd. Hannan	23EE0004	IEEE ICCES Coimbatore (Online)	December & Coimbatore	Self
4	Braj Kishore Jha	23EE0001	IEEE CVMI IIIT Allahabad	October & Prayagraj	RSG
5	Braj Kishore Jha	23EE0001	EAI BodyNets IIT BHU	December & IIT BHU	RSG
6	Stuti Shrivas	22EE0103	IEEE UPCON Lucknow	November & Lucknow	RSG
7	Akash Chaurasiya	22EE0001	INUP, IIT Kharagpur	September & IIT Kharagpur	IIT Kharagpur
8	Akah Chaurasiya	22EE0001	ic-ONMAT-2025, KOCHI	February & Kochi	RSG
9	Shivangi Srivastava	21EE0104	INDISCON 2024, Punjab University Chandigarh	August & Punjab	RSG
10	Tanya Verna	21EE0003	NCC	March 2025 and Delhi	RSG
11	Tanya Verma	21EE0003	INDICON	December IIT Kharagpur	RSG
12	Tanya Verma	21EE0003	EAI BodyNets IIT BHU	December & IIT BHU	RSG

Names of students/scholars who got prizes and awards outside the Institute

S. No.	Name of Student	Roll No.	Name of Prize	Date & Venue	Prize awarded by
1	Braj Kishore Jha	23EE0001	Best Paper Award	December & IIT BHU	EAI Bodynets IIT BHU
2	IEEE Students Branch		Best Emerging Student Branch Award	12.01.2025 & Courtyard by Marriott Agra	IEEE UP selection's annual general meeting 2025
3	IEEE Students Branch		1st Position in activity-based incentive award	12.01.2025 & Courtyard by Marriott Agra	IEEE UP selection's annual general meeting 2025

Faculty & their Activity

Faculty and their areas of specialisation

S. No.	Name, Qualifications, Employee No.	Date of award of PhD Degree	Major Areas of Specialization (Max. 3 Areas)
ASSOCIATE PROFESSORS			
1	Dr. Umakant Dhar Dwivedi	2009 from IIT Kanpur	Renewable Energy Integration. Power Electronics & Drives. AI/ML & Signal Processing Application in Automation and Energy Sector
ASSISTANT PROFESSORS			
1	Dr. Shivanshu Shrivastava	2017 from IIT Guwahati	Artificial Intelligence Applications in Communication, Cognitive Radio, Wireless Systems Communication Systems
2	Dr. Amarish Dubey	2018 from IIT Kanpur	Flexible Electronics, Green Energy, AI and ML, and Sustainable Design
3	Dr. Sajal Agarwal	2019 from MNNIT, Allahabad	Nano fabrication/optical sensor/electronics sensors/artificial materials/IoT
4	Dr. Abhishek Kumar Singh	2020 from IIT (BHU), Varanasi	Microelectronics & VLSI Design
5	Dr. Ankur Pandey	2022 from IIT Patna	IoT, Wireless Communication, Smart Healthcare, Smart Energy Solutions
6	Dr. Vijay Kumar Singh	2020 from Kyushu Institute of Technology, Japan	Power Electronics, Power converter control, Control of EV charger
7	Dr. Saptarshi Ghosh	2021 from IIT Delhi	Communications Security/ Smart Grid
8	Dr. Saurabh Pandey	2018 from IIT Guwahati	System Identification, Control Theory, Electric Vehicle Applications
9	Dr. Bheemaiah Chikondra	2021 from IIT Patna	Power Electronics and Drives, Multiphase Machines, EV control

Technical and Non-Teaching Staff

Sl. No.	Name, Qualifications	Designation, Employee No.	Date of Appointment in the department
1	Rajeev Nayan Pandey, Diploma in Electrical Engg.	Technician (Gr.-I)	April 2022
2	Ratnesh Chandra Gupta, Diploma in Electrical Engg.	Technician (Gr.-I)	June 2022
3	Rishabh Maurya, B.Tech in Electrical & Electronics Engg.	Technical Superintendent (Gr.-I)	August 2022

Short-term courses/workshops/seminars/symposia/conferences organised by faculty members

S. No.	Cordinator	Title	Period
1	Dr. Saurabh Pandey	Swachhata Pakhwada - A Cleanliness Drive at Jais Tehsil, Uttar Pradesh	March 2025
2	Dr. Saurabh Pandey	One-Day National Seminar on Technological Options for a Clean & Sustainable Planet, RGIPT Jais, Uttar Pradesh	March 2025

Short-term courses/workshops/seminars/symposia/conferences/training programmes attended by faculty members in academic institutions and public sector undertakings

S. No.	Name of Faculty Member	Title	Period and Venue
Seminars/Symposia/Conferences			
1	Dr. Vijay Kumar Singh	Emerging Technologies for Smart Grids and Green Energy Integration	25th November to 6th December 2024
2	Dr. Bheemaiah Chikondra	Emerging Technologies for Smart Grids and Green Energy Integration	25th November to 6th December 2024
3	Dr. Sajal Agarwal	Deep Learning with Generative Artificial Intelligence for Computer Vision	8th to 19th November 2024
4	Dr Ankur Pandey	Bharat 6G Workshop, 19th EAI BODYNETS, IIT BHU	15-16th December, 2024
5	Dr Ankur Pandey	3rd IEEE International Conference on Computer Vision and Machine Intelligence (IEEE CVMI), IIIT Allahabad	19-20 October, 2024
6	Dr Saurabh Pandey	10th IEEE Indian Control Conference (ICC), IISER Bhopal, Madhya Pradesh	09-11 December 2024
7	Dr Saurabh Pandey	11th IEEE International Conference on Power Electronics Drives and Energy Systems (PEDES), NIT Surathkal, Karnataka	18-22 December 2024
8	Dr Saurabh Pandey	One week online STC & FDP on Advances in Control, Estimation & Optimization for Cyber-Physical Systems	03-07 January 2025
9	Dr. Bheemaiah Chikondra	41st IEEE INTELEC Conference at JW Mariot, Bengaluru, India	August 4-7, 2024
10	Dr. Shivanshu Shrivastava	13th ICCCAS Xiamen China	May 10th - 12th 2024
11	Dr. Shivanshu Shrivastava	IEEE iSES IIIT Delhi	Dec 16th-18th 2024
Meetings			
1	Dr Ankur Pandey	IEEE Signal Processing Society, Executive Member Meeting	19-20 October, 2024
2	Dr Ankur Pandey	HAL Korwa for industrial solutions	December, 2024
3	Dr Ankur Pandey	Infosys Bangalore.	18th April, 2024

Special lectures delivered by faculty members in other institutions

S. No.	Name of faculty Member	Topic of Lecture	Institution	Date
1	Dr. Vijay Kumar Singh	Design of Power Converters Based on Wide Band Gap (WBG) Devices	NIT Silchar	16th September 2024
2	Dr. Vijay Kumar Singh	Next-Generation Power Electronics for Electric Vehicles	NIT Patna	27th January 2025
3	Dr. Sajal Agarwal	Importance of sensor in IoT network with case studies of industries	IIIT Una	25th April 2024
4	Dr Ankur Pandey	Invited Industry training lecture on AI for Refineries in IOCL Training program at RGIPT. 18th March 2025	IOCL	18th March 2025
5	Dr Ankur Pandey	Moderated a Panel discussion with esteemed panel of Bharat 6G Alliance at the international conference EAI BODYNETS 2024	IIT BHU	16th December, 2024

6	Dr Ankur Pandey	Invited talk at Jawahar Navoday Vidyalaya Ayodhya for class 12th students on "Career after 12th, scope of Engineering & technology". 10th July, 2024	JNV Ayodhya	10th July, 2024
7	Dr Ankur Pandey	Invited Talk at DSIR Sponsored Workshop on "Refining Intelligence: Exploring AI/ML in Refinery Operations - Foundations, Trends, Challenges, and Prospects" RGIPT, 2nd April, 2024	DSIR, GoI	2nd April, 2024
8	Dr. Amarish Dubey	Technical invited lecture on "An Efficient, Flexible and Foldable Electrochromic display screen"	Institution of Engineers (India)	28 May 2025
9	Dr. Bheemaiah Chikondra	Invited talk on " Multiphase Motor Drives and their Control for EV Application", in an IEEE student branch webinar at NIT Manipur	NIT Manipur	June 29, 2024

Visits abroad by faculty members

S. No.	Name of Faculty Member	Country Visited	Date of Leaving india	Date of Returning India	Purpose of Visit	Funding from
1	Dr. Shivansh Shrivastava	China	10th May 2024	14th May 2024	Attend ICCCAS Xiamen	SERB

Honours and awards

S. No.	Name of Faculty Member	Details of Award
1	Dr. Bheemaiah Chikondra	World's top 2% of scientists (Stanford University)
2	Dr. Bheemaiah Chikondra	World's top 0.5% of researcher (ScholarGPS,USA)
3	Dr. Bheemaiah Chikondra	The Best Paper Award for the paper entitled "A Data Driven Energy Efficient Control of Induction Motor Drive with Vector Control"in the PEDES 2024 at NITK Surathkal.
4	Dr Ankur Pandey	The Best Paper Award (Oral Presentation Category)]: "A Low-Overhead CNN-Based Approach for Sleep Posture Recognition with Device-Free Monitoring using UWB Radar," at 19th BODYNETS 24, IIT BHU, Varanasi.
5	Dr Ankur Pandey	Excellence in Academics Award: Awarded by ABES Engineering College for the duration 2010-2024
6	Dr Ankur Pandey	Executive Member, IEEE Signal Processing Society, Uttar Pradesh Section 2025
7	Dr Ankur Pandey	Executive Member Industrial Connections, IEEE Communication Society, Uttar Pradesh 2025
8	Dr Saurabh Pandey	Member of IEEE UP Section Control System Chapter 2025

Fellowships of academic and professional societies

S. No.	Name of Faculty Member	Details of Fellowship
1	Dr Ankur Pandey	IEEE Member
2	Dr. Bheemaiah Chikondra	IEEE Member
3	Dr Saurabh Pandey	IEEE Member
4	Dr. Umakant Dhar Dwivedi	IEEE Member

Books, monographs authored/co-authored

S. No.	Name of Author/Co-Author	Title	Publisher
1	Gargi Srivastava and Sajal Agarwal	Deep Learning Enabled Optical Sensors	CRC Press (Book Chapter)
2	Dr. Shivanshu Shrivastava	Cognitive Radios: Security Threats and Defense Mechanism	Eliva Publishers
3	Dr. Shivanshu Shrivastava	AI for Communication Engineering	Eliva Publishers

Editorial boards of journals

S. No.	Name of Faculty Member	Position (Editor/ member)	Name of Journal
1	Dr. Vijay Kumar Singh	Guest Editor	Electronics (MDPI)

Design and Development Activities

New facilities added

S. No.	Details (Infrastructure, Equipment, etc.)	Value (in Lakhs of Rupees)
1	Digital Storage Oscilloscope 4-Channel, 2.5GS/s 16 nos.	4335840.00

Patents filed

S. No.	Name of Faculty Member	Title of Patent/Technology Transfer
1	Dr Ankur Pandey	Technology Transfer of System for Geospatial Navigation for Smart Parking and Dustbin Management free of GPS, to Centronics Healing Systems Pvt Ltd

Research and Consultancy

Sponsored research projects

S. No.	Title	Period	Funding Agency	Amount (in lakhs of Rs.)	Co-ordinator
1	Designing and Realization of D-shaped PCF-SPR Sensor for Blood Cancer Detection and Development of Novel Machine Learning Methods for Early Prediction	2024-26	CST UP	8.5	Dr. Sajal Agarwal
2	Development of IPR Cell for the institute sponsored by UPCST	2024-25	Council of Science and Technology, Uttar Pradesh	1	Dr Ankur Pandey
3	Real-Time AI-Driven Critical Infrastructure Identification for Industrial Cyber Physical System	2024-2026	CST UP	7.72 Lakhs	Dr Saptarshi Ghosh

Industrial consultancy projects

S. No.	Name of Faculty Member	Title	Industry	Amount (in lakhs of Rs.)
1	Dr Saptarshi Ghosh	Modeling, Optimization, and Verification of a Cavity-Backed Microstrip Patch Array Antenna for Advanced Communication and Radar Systems	Numile Solutions Pvt. Ltd.	2.36 Lakhs

Faculty members' participation with other universities under MoUs Research Publications

S. No.		No.
1	Total Number of Papers Published in Refereed National Journals	
2	Total Number of Papers Published in Refereed International Journals	
3	Total Number of Papers Presented in National Conferences	
4	Total Number of Papers Presented in International Conferences	

Refereed International Journals

1. Shivangi Srivastava, Sajal Agarwal "Potential of Nanomaterials in FET-based Breath Sensing: A Comprehensive Review & Future Directions," Micro and Nanostructures, Elsevier, Vol. 190, 207830, 2024.
2. Sajal Agarwal, Rahul Raparia, Vinit Kumar, Rupam Srivastava, Yogendra Kumar Prajapati "Analytical Study of SPR Sensor with Black Phosphorus and Tungsten Diselenide Heterostructure for Milk Adulteration Detection," Plasmonics, Elsevier, 2024, https://doi.org/10.1007/s11468-024-02496-x
3. Anmol Garg, Sajal Agarwal, Deepak Punetha, "Polarization and Strain in Piezoelectric Nanomaterials: Advancing Sensing Applications in Biomedical Technology," IEEE Open Journal of Nanotechnology, 2024, 1-9, 10.1109/OJNANO.2024.3488787.
4. Rajeev Kumar, Sajal Agarwal, Narendra Pal, Sarika Pal, Yogendra Kumar Prajapati, "Platinum diselenide (PtSe2) Mediated Heterostructure Based SPR Sensor for the Detection of Formalin: A Theoretical Analysis," Physica Scripta, 100(1), 015546, 2025, 10.1088/1402-4896/ad9e46.
5. M. Badoni, A. Singh, R. N. Tripathi, R. Kumar, and V. K. Singh, "Fractional Order Pole Fixed Second Order Generalized Integrator Based Control for Grid Connected Solar Photovoltaic System," IET Power Electronics, Early View, 2024.
6. S. Shrivas and A. Dubey, Prediction of specific capacitance of activated carbon electrode for energy storage device by machine learning based approach, Journal of Energy Storage, Volume 121, 2025, 116632, https://doi.org/10.1016/j.est.2025.116632.
7. M. Gusain, R. Nagarajan, A. Dubey, S. K. Singh, and M. Das, Facile Fabrication of Polyaniline-Based Composites with Stoichiometric and Nonstoichiometric Copper Sulfides and Their Comparative Electrochemical Performances, ACS Omega 2025 *10* (25), 26320-26328. DOI: 10.1021/acsomega.4c08045
8. R. Pandey, A. Dubey, G. Krishna Prasad et.al., Physico-Chemical Characterization of Lignocellulosic Seed Microfibers. *Journal of Natural Fibers*, *21*(1), 2024. https://doi.org/10.1080/15440478.2024.2360493.
9. T. Verma, A. Raza, S. Shrivastava, B. Chen, U.D. Dwivedi and A. Dubey, Intelligent resource allocation in hybrid RF/LiFi networks via deep deterministic policy gradient based DRL mechanism, AEU - International Journal of Electronics and Communications, Volume 187, 2024, 155499. https://doi.org/10.1016/j.aeue.2024.155499.
10. R. Pandey, A. Dubey, G. P Mishra, A. Ahuja, N. Kambo, S. Joshi, M. K. Sinha, R. Dubey and S. Shrivas, Physica Scripta, Volume 99, Number 6, 5005, 2024. DOI 10.1088/1402-4896/ad4016
11. S. Pandey, Sampled Wiener Time Delay System Identification, IEEE Transactions on Circuits and Systems II:Express Briefs (IEEE), vol. 72, pp. 573-577, 2025. DOI: 10.1109/TCSII.2025.3538015.
12. S. Pandey and S. Majhi, Frequency Domain Based Non-minimum Phase System Identification, in IFAC Proceedings Volumes, pp. 1-6, 2025.

13. S. Sharma, S. Ghosh, M. R. Bhatnagar and B. K. Panigrahi, "Power Efficient Handoff Management in Hybrid V2X Communication: Game-Theoretic Approach to Resource Allocation With Load Reduction," in *IEEE Transactions on Mobile Computing*, vol. 23, no. 12, pp. 14638-14655, Dec. 2024.
14. S. Ghosh and C. Konstantinou, "A Bi-Level Differential Game-Based Load Frequency Control With Cyber-Physical Security," in *IEEE Transactions on Smart Grid*, vol. 15, no. 5, pp. 5151-5168, Sept. 2024
15. Chaturvedi, M., Mall, R. K., Singh, S., Chaubey, P. K., & Pandey, A. (2024). Statistical downscaling of maximum temperature under CMIP6 global climate models and evaluation of heat wave events using deep learning methods for Indo-Gangetic Plain. *International Journal of Climatology*, 44(3), 953–972.64)
16. B. K. Jha, S. A. Khowaja, K. Dev and A. Pandey, "Safeguarding Medical AI: Insights and Addressing Adversarial Threats in Consumer Electronics," in *IEEE Consumer Electronics Magazine*, vol. 14, no. 3, pp. 74-79, May 2025, doi: 10.1109/MCE.2024.3443543.
17. G. Prasad, P. Tiwary, A. Pandey and S. Kumar, "A Lightweight α-μ Fading Environment-Based Localization Toward Edge Implementation," in *IEEE Wireless Communications Letters*, vol. 13, no. 11, pp. 3054-3058, Nov. 2024, doi: 10.1109/LWC.2024.3439564
18. A. Pandey, P. Tiwary and S. Kumar, "Bessel Function Mixture Model for Localization in Generalized η-μ IoT Fading Environment," in *IEEE Transactions on Network Science and Engineering*, vol. 11, no. 2, pp. 2279-2288
19. Tanya Verma, Arif Raza, **Shivanshu Shrivastava**, Bin Chen, U.D. Dwivedi, Amarish Dubey, "Intelligent Resource Allocation in Hybrid RF/LiFi Networks via Deep Deterministic Policy Gradient Based DRL Mechanism," *AEU - International Journal of Electronics and Communications*, Vol. 187, 2024. (IF: 3.2)
20. Arif Raza, Salabat Khan, **Shivanshu Shrivastava**, M. Wasim, Kaishun Wu, Lu Wang, "A Lightweight Group-based SDN-driven Encryption Protocol for Smart Home IoT Devices," *Computer Networks*, Vol. 250, 2024. (IF: 5.6)

Proceedings of International Conferences

1. Arka Dutta, B. Chikondra, K.C. Jana "A Data Driven Energy Efficient Control of Induction Motor Drive with Vector Control" 2024 IEEE International Conference on Power Electronics Drives and Energy Systems (PEDES), Suratkal, India,PP 1-6.
2. S. Pandey, B.Chikondra, and V.K. Singh, "Modelling and Identification of Lithium-Ion Battery Using Relay Feedback Response" 2024 IEEE International Conference on Power Electronics Drives and Energy Systems (PEDES), Suratkal, India, PP 1-6.
3. B. Chikondra, R. Vaish and U. D. Dwivedi, "Multi-switch Fault Diagnosis for the Voltage Source Inverter fed Multi-phase Motor Drives Based on Machine Learning," 2024 IEEE International Communications Energy Conference (INTELEC), Bengaluru, India, 2024, pp. 1-5, doi: 10.1109/INTELEC60315.2024.10679011.
4. R. Vaish, B. Chikondra and U. D. Dwivedi, "Challenges Posed by Renewable Energy Source Integration to Machine Learning Based Power System Fault Diagnosis," 2024 IEEE International Communications Energy Conference (INTELEC), Bengaluru, India, 2024, pp. 1-5, doi: 10.1109/INTELEC60315.2024.10679013. V

5. V. K. Singh, R Tripathi, and M. Badoni, “Simulation Platform for GaN-based Three-Phase Voltage Source Inverter Analysis: Switching Frequency and Deadtime”, in 27th International Conference on Electrical Machines and Systems, Fukuoka, Japan, Nov 2024.

A. V. K. Singh and B. Chikondra, “A Novel Three-Phase Quadruple Boost Switched Capacitor Multilevel Inverter for PV Applications,” 2024 IEEE International Communications Energy Conference (INTELEC), Bengaluru, India, 2024, pp. 1-6, doi: 10.1109/ INTELEC60315.2024.10679023. Mamidala, B. Chikondra, and V. K. Singh, “Design and Development of an Auxiliary Power Supply for Body Area Network Devices”, in 19th EAI International Conference on Body Area Networks (EAI BODYNETS 2024), IIT BHU, Varanasi, India, Dec 2024.

6. Shivangi Srivastava, Sajal Agarwal, “**MoS**2 Transistor with Polymethylmethacrylate (PMMA) Gate Oxide for Low-Power Applications,” IEEE 5th India Council International Subsections Conference (INDSCON), Punjab Engineering College, Chandigarh, 22-24 August 2024.
7. S. Shrivas, A. Dubey and R. Pandey, "Renewable Energy Storage from Biomass Derived Carbon: Comparative Study," *2024 IEEE 11th Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON)*, Lucknow, India, 2024, pp. 1-5, doi: 10.1109/UPCON62832.2024.10983730.
8. S. Pandey and S. Majhi, Parameter Identification and Control of Integrating Time Delay Systems, Proceedings of 10th IEEE Indian Control Conference (ICC), IISER Bhopal, India, pp. 1-6, December 9-11, 2024. DOI: 10.1109/ICC64753.2024.10883711.
9. S. Pandey, B. Chikondra and V. K. Singh, Modelling and identification of lithium-ion battery using relay feedback response, Proceedings of 11th IEEE International Conference on Power Electronics Drives and Energy Systems (PEDES), NITK, Surathkal, India, India, pp. 1-5, December 18-21, 2024. DOI: 10.1109/PEDES61459.2024.10961489.
10. B. Chikondra, V. K. Singh and S. Pandey, ``Active Neutral Point Clamped Voltage Source Inverter fed Five Phase Induction Motor Drive Using Carrier Based PWM, Proceedings of IEEE Energy Conversion Congress \& Exposition Asia (ECCE-Asia)}, Bengaluru, India, 2025. DOI: NA
11. V. K. Singh, B. Chikondra, S. Pandey, R. Tripathi and M. Badoni, A Nine-Level Switched-Capacitor Based Quadruple Boost Inverter Using Finite Control Set MPC, Proceedings of IEEE Energy Conversion Congress & Exposition Asia (ECCE-Asia), Bengaluru, India, 2025. DOI: NA.
12. V. Alagumurugesan, A. Birwal, S. S. Srikant, M. Hannan and S. Ghosh, "Design and Analysis of a Slotted Rectangular Patch Antenna for Dual-Band Radar Applications in C and X Bands," *2024 9th International Conference on Communication and Electronics Systems (ICCES)*, Coimbatore, India, 2024, pp. 88-93.
13. Hannan, M., Ghosh, S. (2024). Design and Analysis of Enhanced Bandwidth Slotted Logarithmic Spiral Patch Antenna for 5G Communication. In: Shivakumara, P., Mahanta, S., Singh, Y.J. (eds) Proceedings of the NIELIT's International Conference on Communication, Electronics and Digital Technology. NICEDT 2024. Lecture Notes in Networks and Systems, vol 1023. Springer.
14. S. Chaturvedi, V. Mishra, M. Hussain, M. Hannan and S. Ghosh, "Design and Analysis of C, X, and Ku Band Antenna Integration for Enhanced V2V and V2I Communication," *2024 IEEE 11th Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON)*, Lucknow, India, 2024, pp. 1-6

15. Tanya Verma, Arif Raza, **Shivanshu Shrivastava**, UD Dwivedi, "An Efficient DRL-Based Technique for Resource Allocation in Heterogeneous WiFi/LiFi Systems," *31st National Conference on Communications (NCC)*, IIT Delhi, Mar. 2025.
16. Tanya Verma, **Shivanshu Shrivastava**, Arif Raza, UD Dwivedi, "Deep Reinforcement Learning-Based Q-Networks for Efficient Resource Allocation," *19th EAI BodyNet*, IIT BHU, Varanasi, Dec. 2024.
17. Tanya Verma, Arif Raza, **Shivanshu Shrivastava**, UD Dwivedi, "DRL Based Efficient Resource Allocation in Hybrid WiFi/LiFi Systems," *IEEE INDICON*, IIT Kharagpur, Dec. 2024.
18. Mohd. Rizwan, Wang Xingfu, Yi Ke, Ammar Hawbani, **Shivanshu Shrivastava**, Pelin Angin, Zhu Han, "A Color-Based Data Poisoning Backdoor Approach for Misleading Adversarial Privacy Prediction," *MobiSec 2024*, Sapporo, Japan.
19. Arif Raza, Junfan Xiang, Salabat Khan, **Shivanshu Shrivastava**, Muhammad Wasim Abbas Ashraf, Lu Wang, "Collaborative Multi-Agent Proximal Policy-Based Resource Allocation in Clustered IoV Networks," *IEEE UIC 2024*, Fiji.
20. R. S. Iyer, S. Raj, V. Mishra, **Shivanshu Shrivastava**, "Deep Learning-Based Multiuser Classification for Malicious User Detection in 5G and Beyond," *IEEE iSES 2024*, New Delhi.
21. Litao Ye, Bin Chen, **Shivanshu Shrivastava**, et al., "Dynamic Spectrum Sharing Based on the Rentable NFT Standard ERC4907," *13th IEEE ICCCAS*, Xiamen, China, May 2024.

5 Articles with maximum no. of Citations in last 5 years

1. Machine learning applications in power system fault diagnosis: Research advancements and perspectives [175], R Vaish, UD Dwivedi, S Tewari, SM Tripathi, Engineering Applications of Artificial Intelligence 106, 104504
2. Comparison of svpwm techniques under switching loss control for induction motor drive with lc filters [57], UR Muduli, B Chikondra, MJ Akhtar, O Al Zaabi, K Al Hosani, RK Behera, IEEE Transactions on Industry Applications 59 (2), 1849-1862
3. Space vector PWM based DTC scheme with reduced common mode voltage for five-phase induction motor drive [61], UR Muduli, B Chikondra, RK Behera, IEEE Transactions on Power Electronics 37 (1), 114-124
4. Shivanshu Shrivastava, B. Chen, C. Chen, H. Wang, M. Dai, "Deep Q-Network Learning Based Downlink Resource Allocation for Hybrid RF/VLC Systems," *IEEE Access*, vol. 8, pp. 149412–149434, 2020, doi.: 10.1109/ACCESS.2020.3014427 [51]
5. Improved DTC technique for THL-NPC VSI fed five-phase induction motor drive based on VVs assessment over a wide speed range [41], B Chikondra, UR Muduli, RK Behera, IEEE Transactions on Power Electronics 37 (2), 1972-1981
6. Direct torque control of 3x5 matrix converter fed five-phase im drive using virtual vector concept [34], UR Muduli, B Chikondra, RK Behera, 2021 IEEE Applied Power Electronics Conference and Exposition (APEC), 765-770

Distinguished Visitors

S. No.	Name of the visitor & Designation	Date of Visit	Purpose of Visit
1	Mr. Hari Nagarjun & Technical Architect-VLSI, Tata Consultancy Services	15.09.2024	1st Year Orientation Program (Online)

Other activities

Indian Faculty visits in the Department/Centre/Centre

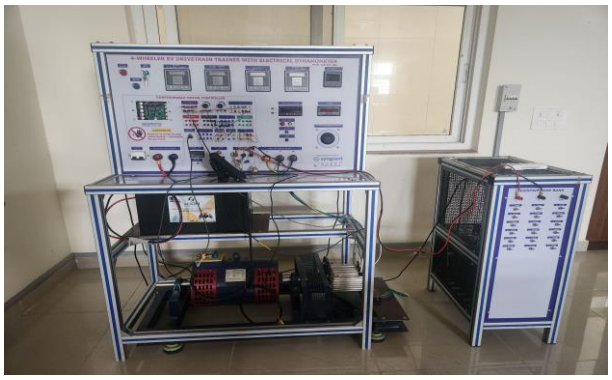
S. No.	Name of Faculty Member	Purpose of Visit	Date and Venue
1	Prof. Rajesh Gupta	Expert lecture and interaction with students	17th January 2025, EEE Department



DC Regulated Power Supply with AC/DC distribution Box



3-Level 3-Phase VSI with PWM Control Inverter



4-Wheeler EV Drivetrain Trainer with Electrical Dynamometer



Lithium Ion/Lead-Acid Battery Pack Charge/Discharge Tester

Chapter-8
Department of Sciences

Year of Establishment: 2008
Head: Prof. Atul Sharma w.e.f. May 2024

Brief Introduction of the Department/Centre:

The Department of Energy and Human Sciences envisages becoming a state-of-the-art department with high-quality education and innovative interdisciplinary research in science & humanities. In an effort to inspire the next generation to tackle pressing societal and scientific issues, the department provides doctoral programs in a variety of disciplines, including physics, chemistry, English, sociology, and more. Additionally, the department consistently pushes students to discover their own unique strengths and develop their abilities through high-caliber instruction and independent study. Students have a good opportunity to learn the practical aspects of science and the humanities in state-of-the-art research and teaching laboratories. The Department of Science and Technology, the Department of Atomic Energy, Council of Scientific and Industrial Research, and other funding agencies have supported and funded several R&D projects that faculty members from the department have performed.

Indoctrinating students with universal human values and equipping them with the necessary knowledge and abilities in the appropriate scientific and humanities fields is the primary goal of the department. The department places a heavy emphasis on encouraging its teachers and students to engage in multidisciplinary research that has real-world applications in both academia and business.

Major areas of Research

- Sociology of Development, Diaspora Studies
- Man-Woman Relationships in Contemporary Literature
- Feminism and Gender Issues in Indian Cinema
- Advertising Script and Theory
- Energy and Communication
- OTT platforms
- Luminescent Nanomaterials
- Waste Valorization (Biomass/Polymer)
- Waste Plastic Valorisation
- Biomass-Powered Green Hydrogen Production
- Biomass Upgradation,
- Flow Chemistry

- Inorganic Chemistry
- Photocatalysis / Thermocatalysis
- Green Catalysis
- Development of advanced electrocatalysts for sea water splitting, with a focus on both hydrogen evolution reaction (HER) and oxygen evolution reaction (OER)
- Electrochemical reforming/oxidation of sour water and biomass-derived molecules to co-produce green hydrogen and value-added chemicals
- Investigation of cost-effective, earth-abundant catalyst materials to replace noble metals (e.g., Pt, Ir, Ru)
- Optimization of electrode design, reaction kinetics, and electrolyte engineering for improved efficiency and stability
- Design of selective and durable electrocatalysts to convert CO_2 into value-added chemicals
- CO2 insertion and conversion
- LOHC-based hydrogen storage and utilisation
- Multiferroic and Magnetoelectric Materials for the data storage device
- Correlated Quantum Materials--- Investigation through Neutron diffraction, Inelastic Neutron Scattering, and muSR spectroscopy
- Multiferroic Quantum Criticality
- Magnetocaloric Materials
- High-k and low-loss dielectric material (For alternative energy)
- Ionic Control of Materials (Electrolyte Gating using Ionic Liquid/Gel)
- Investigation of strongly correlated electron systems through X-ray, muSR, and Neutron spectroscopy
- Metal-organic framework - a new approach towards multiferroicity
- Thermoelectric materials
- Materials for Photocatalytic Water Splitting
- Soft Sensors & Actuators

Infrastructure

S. No.	Particulars	Number
1	No. of Classrooms	1
2	No. of Lecture Halls	1
3	No. of Laboratory	2 (UG); 9 (PG)
4	No. of Computers available for students in the Department/Centre/ Centre	24

Students on Roll

S. No.	Programme	I Year	II Year	III Year	IV Year	V Year & above
1	Ph. D (Under Institute Fellowship)	2 (2025)	5 (2024)	4 (2023)	5 (2022)	1 (2021)
2	Ph. D (Under Project Fellowship)	3 (2025)		1 (2023)	1 (2022)	
3	Ph. D (Under Sponsored Category)	3 (2025) (CSIR NET JRF & NRL)		1 (NFSC) (2023)	1 (2022) (UGC NET JRF)	

Names of students/scholars who attended conferences/workshops/seminars and symposia abroad or in India

S. No.	Name of Student	Roll No.	Conference/Seminar/Symposia/Workshop	Date & Venue	Financial Assistance From
			ÌNDIA		
1	Pooja Pandey	22BS0007	3rd Energy, Functional Materials/ Molecules and Nanotechnology & National Workshop on Solid Waste Management Conference, 2025	20th -22th March 2025, Kumaun University, Nainital	----
2	Pooja Pandey	22BS0007	20th Annual Session of Students Chemical Engineers Congress	20th -21th September 2024, RGIPT Jais	RGIPT
3	Ankit Singh	21BS0003	International Conference on Polymers, Composites, Nanocomposites and Biocomposites (ICPCNB) 2024	8th – 10th November 2024, Mahatma Gandhi University, Kottayam	----
4	Ankit Singh	21BS0003	International Conference on Microbial Innovations for Synergistic Advancements (MISA 2024)	17th -18th September 2024, SBS University, Dehradun	----
5	Utsav Mishra	21BS0014	E2M International conference-2024	11th -13th July 2024, IIT Indore	RSG
6	Arvind Swamy	21BS004	E2M International conference-2024	11th -13th July 2024, IIT Indore	RSG
7	Parvez A. Khan	21BS0102	National Conference on Materials Chemistry & Catalysis, Tezpur Central University, Assam	7th – 8th March 2025, Tezpur Central University	Research Project (P-2406)
8	Ashish K. Yadav	21BS0011	Conference on Advances in Chemistry for Energy & Environment – 2024, TIFR – Mumbai	16th – 20th December 2024, TIFR – Mumbai	Institute (TA Contingency)
9	Ashish K. Yadav	21BS0011	India Energy Week – 2025, New Delhi	11th – 14th February 2025, New Delhi	Research Project (P-2406)
10	Mrs. Prerna Tripathi	20BS005	20th Annual Session of Students Chemical Engineering Congress (SCHEMCON-2024)	20th – 21st September 2024, RGIPT	RGIPT
11	Aditya Kumar Mishra	23BS0001	International CEES-2024 Conference	18th – 20th September 2024, CSIR-IICT, Hyderabad	NA
12	Hemant	23BS003	One Day Workshop	29th October 2024, RGIPT, Amethi	None
13	Mohit Kumar	22BS0004	School on Magnetism and Spintronics	02nd -04th December 2024, IIT Kanpur	RGIPT
14	Ekta Kushwaha	22BS0002	Indo-German Workshop	November 2024, NISER, Bhubaneswar	RGIPT
15	Sayan Ghosh	23BS0008	Synchrotron beamtime experiments	September 2024, RRCAT, Indore	RRCAT, UGC-DAE, Indore

Names of students/scholars who got prizes and awards outside the Institute

S. No.	Name of Student	Roll No.	Name of Prize	Date & Venue	Prize awarded by
1	Utsav Mishra	21BS0014	Poster Prize	13th July 2024, IIT Indore	Royal Society of Chemistry
2	Parvez A. Khan	21BS0102	ACS Applied Nanomaterials Best Poster Award	8th March 2025, Tezpur Central University, Assam	Tezpur Central University, Assam
3	Sayan Ghosh	23BS0008	Indo-Japan fellowship	March 2024, Photon Factory, KEK, Japan	DST-KEK
4	Sayan Ghosh	23BS0008	Synchrotron beamtime, Travel fellowship	September 2024, RRCAT, Indore	RRCAT, UGC-DAE, Indore

Names of Students/Scholars who went for foreign Internship

S. No.	Name of Student	Roll No.	Name of the Organization	Place of Internship	Country	Duration
1	Sayan Ghosh	23BS0008	DST-KEK	Photon Factory, KEK, Japan	Japan	7 days
2	Gourab Roy	22BS0003	CEFIPRA	CRISMAT lab, France	France	6 months

Faculty & their Activity

Faculty and their areas of specialisation

S. No.	Name, Qualifications, Employee No.	Date of award of PhD Degree	Major Areas of Specialization (Max. 3 Areas)
PROFESSORS			
1	Abhay Kumar Choubey, Ph. D., 0002	1995	Organic Chemistry, Nanotechnology, Water Shut-off, EOR/IOR,
2	Atul Sharma, Ph.D.	2003	Phase change material, Solar thermal energy storage system & Renewable energy
ASSOCIATE PROFESSORS			
1	Saurabh Mishra, Ph.D., 005	2007	Communication
2	Debashis Panda, Ph.D., 077	2008	Spectro-Microscopy, Catalysis, Biomass Valorization
ASSISTANT PROFESSORS			
1	Anirban Mukherjee, Ph.D., 0162	2012	Sociology
2	Vipin Amoli Ph.D., 0230	2016	Physics, Nanotechnology, Electronics
3	Tathamay Basu, Ph.D.	2016	Condensed Matter Physics, Quantum Materials, Magnetism
4	Tanmoy Ghosh, Ph.D., 0313	2018	Thermoelectric materials
5	Arshad Aijaz, Ph.D., 0164	2011	Nanostructured porous materials (MOFs, COFs, Carbon), Electrocatalysis (Water electrolysis, Fuel cell, Metal-air batteries, CO_2 reduction), Catalytic organic transformation (C-C coupling, C-N coupling, CO_2 fixation and conversion, etc.)
6	Shikha Singh, Ph.D., 0307	2017	Energy/2D material, Sensor, Catalysis
7	Omvir Singh, Ph.D.,	2022	Green catalysis, Biomass upgradation

	0311		
8	Malaya Kumar Sahoo, Ph.D., 0314	2020	Electrochemical Energy conversion and Storage, Electrochemistry
9	Praveen Kumar Srivastava, Ph.D.	2014	Integrated Biogas Technology, Waste management, Biotransformation

Technical and Non-Teaching Staff

Sl. No.	Name, Qualifications	Designation, Employee No.	Date of Appointment in the department
1	Mahesh Singh (M.A. IRPM, MBA Pursuing)	Assistant Grade I	2nd May 2022
2	Anurudh Srivastava (Diploma in IT)	Technician Grade I	3rd July 2021
3	Adig Pratap Singh (ITI, M.A. in Arts)	Technician Grade I	7th June 2018
4	Manish Somvanshi (MSc, B.Ed)	Technician Grade I	25th August 2023
5	Karan Bahadur (High School)	Attendent	8th May 2018

Short-term courses/workshops/seminars/symposia/conferences organised by faculty members

S. No.	Cordinator	Title	Period
1	Dr. Tathamay Basu	Design and Characterisation of Magneto-electric Materials for Next-Generation Devices	30th November 2024
2	Dr. Vipin Amoli	One-day SERB-Sponsored Scientific Workshop on Wearable Sensors and Actuators: The World of Small Life Technologies	30th Nov. 2024

Short-term courses/workshops/seminars/symposia/conferences/training programmes attended by faculty members in academic institutions and public sector undertakings

S. No.	Name of Faculty Member	Title	Period and Venue
Seminars/Symposia/Conferences			
1	Dr. Debashis Panda	Carbon-Neutral Photo/Electro-Catalysts for Water Splitting	19th August 2024 (ACS Virtual Symposia)
2	Dr. Debashis Panda	Sustainable Transreflective Material: Color & Cooler	20-23rd March 2025
3	Dr. Arshad Aijaz	Single-Atom-Catalysts (SACs) for Electrocatalysis (MCC-2025 Conference, Invited Talk)	7th - 8th March, 2025, Tezpur Central University, Assam
4	Dr. Arshad Aijaz	Presentation of In-House Fabricated Electrolyzer (India Energy Week – 2025)	11th – 14th February 2025, New Delhi
5	Dr. Arshad Aijaz	Coupling single-atom-catalysts with second metals for electrocatalysis (ACS Fall 2024, Global Virtual Symposium)	18th August 2024, Virtual Session, USA
6	Dr. Shikha Singh	Emerging Materials for Sustainable Hydrogen Generation	5th–6th April 2024, International Conference on Catalysis for Clean Energy Technologies and Sustainable Development, Dr. S. S. Bhatnagar University Institute of Chemical Engineering & Technology

7	Dr. Shikha Singh	Upconversion Nanomaterial and Thermoelectric Generator Device Integrated β-SiC Nanosystem for Efficient Solar Hydrogen Production	3rd – 6th February 2025, International Conference on Environment and Sustainable Development (ICESD - 2025) organised by Institute of Environment and Sustainable Development, Banaras Hindu University, Varanasi, India
8	Dr. Shikha Singh	Graphene-Sulphur form as Chlorine Repellent for Selective Oxygen Evolution	8th – 10th March 2025, International Conference on Sustainable Energy and Environment (ICSEE) 2025 schedule for at the Department of Chemical Engineering, BITS Pilani
9	Dr. Malaya Kumar Sahoo	India Energy Week (IEW) 2025	11th – 14th Febuary 2025, Yashobhoomi, Dwaraka, New Delhi, India
10	Dr. Omvir Singh	Catalytic Production of sustainable aviation fuel (SAF) from renewable feedstock	21st – 23rd March 2025, International Conference on Polymers and Nanomaterials (ICPN-2025), Mahatma Gandhi University, Kottayam, Kerala, India, (Invited talk)
11	Dr. Omvir Singh	Biomass conversion towards net zero challenge and future prospective	6th – 8th March 2025, 2nd Global Conference on Decarbonizing India, National Institute of Technology Calicut, India (Oral presentation)
12	Dr. Omvir Singh	Sustainable Development: Challenges and Opportunities in Biomass Upgradation	6th – 7th December 2024, IIT(ISM) Dhanbad, (invited talk)
13	Dr. Omvir Singh	Faculty development program on multi-disciplinary & research with Emphasis on the Indian knowledge system.	21st -27th January 2025, Uttarakhand Science Education and Research centre (USERC), Dehradun(Keynote speaker)
14	Dr. Omvir Singh	Production of aromatics hydrocarbon from unconventional feedstock over a metal-supported zeolite	24th – 26th October 2024, 6TH International Symposium On Materials, Electrochemistry & Environment (CIMEE 2024), Lebanon (invited talk).

Special lectures delivered by faculty members in other institutions

S. No.	Name of faculty Member	Topic of Lecture	Institution	Date
1	Dr. Anirban Mukherjee	Organizational Management	IIT Mandi	Even Semester 2025
2	Dr. Praveen Kumar Srivastava	A Self-Sustained Biogas Plant integrated with Vermicomposting and Aquaponics Systems: A Holistic Approach to Addressing Interconnected Challenges	ICAR-NBFGR, Lucknow	22nd April 2025
3	Dr. Debashis Panda	Spectro(Microscopy) & Sustainability of Emerging Photoluminescent Materials	Department of Chemistry, IIT Guwahati	29th January 2024
4	Dr. Malaya Kumar Sahoo	Renewable Energy Production and Storage for Future Applications	Vellore Institute of Technology, Vellore, Tamil Nadu 632014, India	7th March 2025
4	Dr. Vipin Amoli	Iontronic Polymer Pumps for Skin-	National Centre for	8th May 2024

		Inspired Sensors and Actuators	Flexible Electronics, FleXe, IIT Kanpur, May 2024	
5	Dr. Vipin Amoli	Introduction to flexible sensors and their applications	HAL, Korwa	26th December 2024

Visits abroad by faculty members

S. No.	Name of Faculty Member	Country Visited	Date of Leaving india	Date of Returning India	Purpose of Visit	Funding from
1	Dr. Arshad Aijaz	Germany	5th June 2024	26th July 2024	Collaborative research work (Guest Scientist)	Ruhr-University, Germany & RGIPT
2	Dr. Tathamay Basu	Japan	15th March	25th March	KEK Beamtime	KEK-DST India

Honours and awards

S. No.	Name of Faculty Member	Details of Award
1	Dr. Shikha Singh	Session Chair at International Conference on Sustainable Energy and Environment (ICSEE) 2025 schedule for 8th – 10th March at the Department of Chemical Engineering, BITS Pilani
2	Dr. Tathamay Basu	Scientific High-Level Visiting Fellowship through CEFIPRA to visit the CNRS, CRISMAT lab, France
3	Dr. Tathamay Basu	Travel fellowship through DST-KEK to visit Photon Factory, KEK, Japan

Books, monographs authored/co-authored

S. No.	Name of Author/ Co-Author	Title	Publisher
1	A. Shukla, A. Sharma and S. Mishra (ed). 2024	The South Asian Energy Corridor	Apple Academic Press. ISBN 9781774914786.
2	P. Tripathi and A. K. Choubey	(Book Chapter) Biocrude Oil Biorefinery An Emerging Biorefining Approach (ISBN 978-3-031-85035-6)	Springer Nature 2025
3	P. Tripathi and A. K. Choubey	(Book Chapter) Sustainable Aviation Fuels Recent Advances and Future Challenges	Springer Nature 2025
4	A. Singh, A. K. Choubey and K. Nandan	(Book Chapter) Hazardous Chemicals Overview, Toxicological Profile, Challenges, and Future Perspectives (ISBN: 978-0-323-95235-4)	Academic Press, UK, 2024
5	A. Shukla, A. Sharma and K. Kant	Thermal Energy: Applications, Innovations, and Future Directions	CRC Press, Taylor and Frances Group, ISBN 9781003345558 (2024)
6	H. Mishra, S. Pandey and A. Sharma	(Book Chapter) Barriers to Hydrogen Production, Storage, and Utilization, Green Hydrogen Economy for Environmental Sustainability	ACS Books
7	S. Pandey, A. Anand, A. Shukla and A.	(Book Chapter) Nano Composite PCMs for Thermal Energy Storage	Apple Academic Press

	Sharma	Applications, Technological Advancement in Clean Energy Production	
8	P. Gupta, P. K. Maji and A. Sharma	(Book Chapter) Introduction to Thermal Energy and Its Storage Materials, Thermal Energy: Applications, Innovations, and Future Directions	CRC Press
9	B. K. Purohit, K. Kant, A. Shukla and A. Sharma	(Book Chapter) Thermochemical Heat Storage: Materials and Application, Thermal Energy: Applications, Innovations, and Future Directions	CRC Press
10	N. Misra, S. Pandey, A. Shukla and A. Sharma	(Book Chapter)Thermal Energy Storage for Solar Water Heating, Cooking, and Ponds, Thermal Energy: Applications, Innovations, and Future Directions	CRC Press
11	S. Pandey, A. Anand, A. Shukla and A. Sharma	(Book Chapter) Solar Thermal Energy for Drying and Other Small Scales of Industrial Applications, Thermal Energy: Applications, Innovations, and Future Directions	CRC Press
12	A. Anand, P. Gupta, Muhamad Mansor, A. Shukla and A. Sharma	(Book Chapter) Waste Heat Recovery from Industry Through Thermal Energy Storage Mediums, Thermal Energy: Applications, Innovations, and Future Directions	CRC Pres
13	R. Kumar, A. Kumar and A. Sharma	(Book Chapter) Overview of Hydrogen Production Methods from Solar Energy, Thermal Energy: Applications, Innovations, and Future Directions	CRC Press
14	S. Pandey, A. Anand, A. Shukla and A. Sharma	(Book Chapter) Nanofibers For Energy Applications, Tailored Functional Materials for Clean and Sustainable Development	Apple Academic Press

Editorial boards of journals

S. No.	Name of Faculty Member	Position (Editor/ member)	Name of Journal
1	Dr. Anirban Mukherjee	Reviewer	Journal of Land and Rural Studies, Sage
2	Dr. Anirban Mukherjee	Reviewer	Social Identities, Taylor and Francis
3	Prof. A. K. Choubey	Member, Editorial Board	Frontiers in Energy Research
4	Prof. A. K. Choubey	Member, Editorial Board	Journal of Petroleum Engineering & Technology

Design and Development Activities

New facilities added

S. No.	Details (Infrastructure, Equipments, etc.)	Value (in Lakhs of Rupees)
1	Force Sensor (Mark -10, USA)	7.25

2	Workstation for vacuum sealing of quartz tubes	2.39
3	Low speed precision diamond cutter	2.94
4	20L & 50L CSTR Reactor	13
5	UV-Vis Spectrophotometer	11
6	Bipotentiostat	25

Patents filed

S. No.	Name of Faculty Member	Title of Patent
1	Dr. Debashis Panda	"Bifunctional Electrocatalyst for Hydrogen Production at Industrial Current Density and Process for Preparing the Same" (Application No.: 202511017168)
2	Dr. Arshad Aijaz	Method and System for Sodium Sulphide Induced NiFeCo based Trimetallic Electrode for Seawater Electrolysis, National (Patent File Number: *202311053857*)
3	Dr. Arshad Aijaz	Three-Dimensional Electrode for Seawater Electrolysis, National, Filed (Patent File Number: *202211015887*

Research and Consultancy

Sponsored research projects

S. No.	Title	Period	Funding Agency	Amount (in lakhs of Rs.)	Co-ordinator
1	Electrochemical conversion of aq. ethanol/methanol to acetic acid/formic acid & hydrogen	March 2025-August 2026	NRL	72.0	Dr. Arshad Aijaz (PI)
2	Development of Electrodes & Modular Compact Membraneless Electrolyzer Setup for Sustainable H_2 Production from Sea/Tap/Ground Water, 2022-25, 253.28 Lakhs, Ongoing	March 2022-March 2026	DST	253.28	Dr. Arshad Aijaz (PI)
3	Metal-Organic Frameworks-Derived Nanomaterials for Electrocatalysis	October 2021-September 2025	CSIR	19.0	Dr. Arshad Aijaz (PI)
4	Technical Upgradation of Electrode and Membraneless Electrolyzer for Sea Water Electrolysis	2024-25	NTPC	128.67	Dr. Arshad Aijaz (Co-PI)
5	Demonstration of Redox Flow Battery for Stationary Energy Storage at kW Scale	2024-25	BPCL	82.80	Dr. Arshad Aijaz (Co-PI)
6	Scaling up to Demonstration Plant: Production of Microcellulose, Nanocellulose and Fuel (Dimethyl Furan) from Rice Straw and Green Coconut Shells	2024-2026	CPCL	85	Dr. Debashis Panda (PI)
7	Electrocatalytic Conversion of H2S and Ammonia in Sour Water to Sulfur, H2, and Ammonium Sulfate as PI	March 2025-March 2027	Numaligarh Refinery Limited	67.5	Dr. Malaya Kumar Sahoo
8	Electrochemical conversion of aqueous ethanol/methanol to acetic acid/formic acid & hydrogen, as	March 2025-March 2027	Numaligarh Refinery Limited	72.0	Dr. Malaya Kumar Sahoo

	Co-PI				
9	Fabrication of Hybrid Ionic Electroactive Polymers-based Low-powered, High performance Soft Actuators for Soft Robotics Applications	January 2023-January 2025	SERB, DST	24.95	Dr. Vipin Amoli
10	Investigation of magnetic structure and magnetoelectric coupling of designed 4d/5d-4f coupled strongly correlated systems	March 2022 - March 2025	UGC-DAE CSR	1.35	Dr. Tathamay Basu
11	Design and Investigation of magnetoelectric materials- an emerging route in data-storage devices	December 2022 - December 2024	SERB (Now ANRF)	33.54	Dr. Tathamay Basu

Faculty members' participation with other universities under MoUs Research Publications

S. No.		No.
1	Total Number of Papers Published in Refereed National Journals	0
2	Total Number of Papers Published in Refereed International Journals	44
3	Total Number of Papers Presented in National Conferences	0
4	Total Number of Papers Presented in International Conferences	0

Refereed International Journals

1. A. Mukherjee and B. K. Pattnaik, The Evicted Tribals of Chhattisgarh: The Saga of Impoverishment and Marginalization, Sociological Bulletin, Sage 2025, 74(2), 132-151, DOI: 10.1177/00380229241313445
2. S. Satish and A. Mukherjee, The Fragrant Legacy: Reviving the Craft of Ittar-making in Kannauj Amidst Modern Challenges, Journal of Heritage Management, Sage Publications 2025, 10 (1): 1-13, DOI: 10.1177/24559296241301917
3. A. Bose and S. Mishra, Setting Narrative: A Study How OTT Content has influenced the women and sports in India, Cuestiones De Fisioterapia 2025, 54(2), 448-464, ISSN: 2695-7639
4. A. Bose and S. Mishra, Metanarratives of Indian neo-femininity in Netflix: A semiotic analysis of Delhi Crime and Bhaag Beanie Bhaag, Library Progress International 2024, Vol. 44 No. 3 (2024): JUL-DEC 2024, ISSN: 2320-317X
5. S. Yadav, A. Singh, P. K. Srivastava and Choubey, Optimizing growth performance of Abelmoschus esculentus (L.) via synergistic effects of biogenic Cu/Ni/Co oxide nanoparticles in conjunction with rice straw and pressmud based vermicompost, Pedosphere 2025, DOI: 10.1016/j.pedsph.2025
6. S. Kumari, R. K. Singh, A. Singh, A. K. Choubey and P. K. Srivastava, Optimization and evaluation of Eisenia fetida-based vermicompost derived from fish processing waste, rice straw, and biogas slurry for sustainable agriculture, Process Safety and Environmental Protection 2025, 198, 107225, DOI: 10.1016/j.psep.2025.107225
7. V. Kumar, P. Verma, F. A. de Freitas and P. K. Srivastava, et al., A critical review on biofuels generation from pulp-paper mill sludge with emphasis on pretreatment methods: Renewable energy for environmental sustainability BMC Environ Sci 2025, 2, 1–22, DOI: 10.1186/s44329-024-00016-0
8. R. K. Singh, P. K. Srivastava, G. N. Tiwari and A. S. K. Sinha, A sustainable floating dome biogas plants integrated with semi-transparent photovoltaic thermal collectors: Construction,

production and economic analysis, Journal of Cleaner Production 2024, 475, 143706, DOI; 10.1016/j.jclepro.2024.143706

9. R. K. Singh, P. K. Srivastava, G. N. Tiwari and A. S. K. Sinha, Energy matrices, exergo-economic and enviro-economic analysis of an n-sPVT-FPC collector integrated with biogas plant, Solar Energy 2024, 273, 112537, DOI: 10.1016/j.solener.2024.112537
10. P. Pandey and A. K. Choubey, Green synthesized ZnO@CuO nanocomposites using Achyranthes aspera leaves extract for dielectric applications, Journal of alloys and Compounds 2024, 970, 172492, DOI: 10.1016/j.jallcom.2023.172492
11. S. Yadav, A. Singh and A. K. Choubey, Composition dependent variation in structural, morphological, optical and magnetic properties of biogenic CuO/NiO mixed oxides nanoparticles, Journal of Alloys and Compounds 2024, 979, 173422
12. A. Bardhan, A. Singh, H. Nishanta, S. Sharma, A. K. Choubey and S. Kumar, Biogenic Copper Oxide Nanoparticles for Improved Lubricity and Filtration Control in Water-Based Drilling Mud, Energy & Fuels 2024, 38, 8564 DOI: 10.1021/acs.energyfuels.4c00635
13. A. K. Prajapati, S. Yadav, A. K. Gomey, A. K. Choubey and R. Kumar, Assessment of performance and emission characteristics of CI engine using tyre pyrolysis oil and biodiesel blends by nano additives: An experimental study, Journal of the Energy Institute 2024, 117, 101825, DOI: 10.1016/j.joei.2024.101825
14. U. Mishra, A. Ansari, A. Chaurasiya, A. K. Singh, and D. Panda, Transparent, Fluorophore-doped Cellulose Nanocrystals Film prepared from Crop-Residue: Superior Radiative Cooler and Organic Photodetector, ACS Sustainable Chem. & Eng. 2025, 13, 2086–2096
15. S. Panda, G. Roy, T. Basu, and D. Panda, Facet {100} Fosters Resonance Energy Transfer in Ni/Co-doped CsPbBr3 Nanocrystals, ACS Appl. Energy Mater, 2024, 7, 10179
16. A. Kumar, A. Anand, A. Tripathi, P. N. Singh, D. Panda, K. D. P. Nigam and K. G. Biswas, A Sustainable Route of Mass Transfer for Liquid-Liquid Flow in Millimeter-sized Conduit: Unearthing the Potential of Argo waste-derived Nanomaterials, Waste and Biomass Valorization 2025, DOI: 10.1007/s12649-025-03124-3
17. N. Roy, T. Dasgupta, S. Ghosh, M. Jayaprakash, M. Pal, S. Shanavas, S. K. Pal, V. Muthukumar, K. A. Senthil, T. Ramasamy, M. Roy, B. Bose, D. Panda, R. Chakrabarty and P. Paira, Sialic Acid-Targeted Ru(II)/Ir(III)/Re(I) Complexes for Ferroptosis Induction in Triple-Negative Breast Cancer, Langmuir 2024, 40, 25390–25404
18. A. Tripathi, K. Sarkar, S. Patel, U. Mishra, K. D. P. Nigam, D. Panda and K. G. Biswas, Elucidating Flow-directed 98% CO2 Absorption Using Millimeter-sized Coild Flow Inverters: Nanocellulose-aided Sustainable Scope, Chem. Engg. Process. 2024, 205, 110022
19. S. K. Motahar, S. Saifi, S. Bera, A. Ghosh, D. Banerjee and A. Aijaz, Reusable Ni-Immobilized MOF Catalyst for Dehydrogenation of N-Heterocycles Under Milder Conditions, Chem. Eur. J. 2025, 31, e202404219
20. G. Dey, S. Saifi, A. K. Yadav, S. Awasthi, A. S. K. Sinha and A. Aijaz, Yolk-Shell α-/β-Ni(OH)2/Carbon Nanostructure for Efficient Oxygen Evolution Reaction, Cryst. Growth Des. 2024, 24, 8310-8318
21. S. Saifi, G. Dey, R. Shakir, J. Karthikeyan, R. Kumar, D. Bhattacharyya, A. S. K. Sinha and A. Aijaz, Single-Atomic Co-N4 Sites with CrCo Nanoparticles for Metal-Air Battery-Driven Hydrogen Evolution, Inorg. Chem. 2024, 63, 7218-7232

22. A. K. Verma, P. Tripathi, A. S. K. Sinha and S. Singh, Cutting -Edge OER Electrocatalysts for Sustainable Seawater Electrolysis: Progress, Obstacles and Future Prospects ACS Energy and Fuels 2025, 39, 2348-2380, DOI: 10.1021/acs.energyfuels.4c04519
23. A. K. Verma, P. Tripathi, A. S. K. Sinha and S. Singh, Graphene-Transition Metal Electrocatalysts for Sustainable Water Electrolysis, Chemistry Select 2024, 9, e202403155, DOI: 10.1002/slct.202403155
24. S. Sharma, R. Shanmugam, R. K. Mahto, Malaya K. Sahoo, H. S. Rao, Q. K. Nguyen and G. R. Rao, Oxygen vacancies in Ce-Gd-O promoter boost the electrochemical oxidation of methanol on Pt/C, Surfaces and Interfaces 2025, 58, 105842, DOI: 10.1016/j.surfin.2025.105842
25. Y. Setia, S. N. Paltasingh, S. K. Nayak, A. S. K. Sinha, U. Ojha and Malaya K. Sahoo, Porous Mo Modified Ni3N/Ni3S2 Hetero Interfacing for Facile Sulfur Oxidation Mediated Green H2 Production, Adv. Sustainable Syst. 2025, e00407, DOI: 10.1002/adsu.202500407
26. B. Joshi, O. Singh, A. Agrawal, N. Dhiman, B. P. Vempatapu, N. Gopinathan and A. Ray, Renewable Aromatic Hydrocarbons from Waste Cooking Oil over Hierarchical Imidazole Supported Zeolite, J. Mater. Chem. A 2024, 12, 12733-12743, DOI: 10.1039/D4TA00416G
27. O. Singh, C. Samanta, L. Kustov and L. Pinard, Zeolite Catalysts for Biomass Valorization: Tuning of active sites for promoting reactivity, sites for promoting reactivity, Catalysis Reviews Science and Engineering 2024, DOI: 10.1080/01614940.2024.2387535
28. O. Singh, B. Joshi, R. Tiwari, R. Goyal, R. Luque, C. Samanta and B. Sarkar, Production of renewable aromatics from tree-borne oils (TBO): Advances and future prospects, Chemical Engineering Journal 2025, 505, 159387, DOI: 10.1016/j.cej.2025.159387
29. O. Singh, H. S. Khairun, H. Joshi, B. Sarkar and N. K. Gupta, Advancing light olefin production: Exploring pathways, catalyst development, and future prospects, Fuel 2025, 379, 132992, DOI: 10.1016/j.fuel.2024.132992
30. N. Dhiman, B. Joshi, S. R. Yenumala, O. Singh, R. Bal, A. Ray and B. Sarkar, Greener production of styrene via low-temperature dehydration of phenethyl alcohol over co-supported P/ZrO2, Chemical Engineering Journal 2023, 480, 15, 148005, DOI: 10.1016/j.cej.2023.148005
31. P. Patel, I. Dimitriou, P. Mondal, O. Singh and S. Gupta, Process optimisation and enviro-economic assessment of carbon-negative hydrogen production from biomass co-gasification, Energy Conversion and Management 2025, 323, 119211, DOI: 10.1016/j.enconman.2024.119211
32. D. Kumar, A. Mishra, Shubham, Hemant, S. Bhattacharjee, R. R. Urkude, B. Ghosh, A. Bhaumik, A. K. Sinha and V. Amoli, Highly Asymmetric CuSA-Ov-Ti3c Atomic Sites Catalyst for Unprecedented Solar Hydrogen Generation, Advanced Energy Materials 2024, 14, 2401964, DOI: 10.1002/aenm.202401964
33. K. Goria, R. Kothari, H. M. Singh, D. Pathania, D. Buddhi, A. Sharma and V. V. Tyagi, Harvest of algal biomass with bioflocculants for biofuel with upstream and downstream processes: State-of-the-art towards sustainable alternative, Energy, Ecology and Environment, 2025, 10, 437
34. A. Srivastava, H. Mishra, S. Pandey, A. Sharma and Anil Kumar, Assessment of Phase Change Materials for Thermal Energy Storage in Solar Drying Applications, Multiscale and Multidisciplinary Modeling, Experiments and Design 2025, 8 (3), 1-13
35. A. Srivastava, A. Sharma and Anil Kumar, Performance evaluation of indirect solar drying system for potato slices: Comparative analysis with open-sun drying method, Solar Energy 2025, 1, 113114, DOI: 10.1016/j.solener.2024.113114
36. A. Anand, M. Mansor, K. Sharma, A. Shukla, Atul Sharma, M. I. H. Siddiqui, K. K. Sadasivuni, N. Priyadarshi and B. Twala, A comprehensive review on eutectic phase change materials:

Development, thermophysical properties, thermal stability, reliability, and applications, Alexandria Engineering Journal 2025, 112, 254- 280, DOI: 10.1016/j.aej.2024.10.054
37. S. Pandey, A. Kumar and A. Sharma, Sustainable Solar Drying: Recent Advances in Materials, Innovative Designs, Mathematical Modeling, and Energy Storage Solutions, Energy 2024, 308, 132725
38. R. Kothari, H. M. Singh, K, Goria, S. Raina, V. V. Tyagi, Shamshad Ahmad, R. K. Singh, A. Sharma, S. Sheoran, F. Bruno and D. Buddhi, Utilization of rice crop residue to fortify biogas production with mitigation of aerosols for sustainable environment: Mechanism, potential strategies and opportunities, Biomass Conversion and Biorefinery 2024, 1-28, DOI: 10.1007/s13399-024-05571-9
39. A. Anand, R. A. P. Verayiah, Muhamad Mansor, Tengku Juhana Tengku Hasim, A. Shukla, H. Panchal, A. Sharma, L. Natryan and Abhinav Kumar, A comprehensive analysis of small-scale building integrated photovoltaic system for residential buildings: Techno-economic benefits and greenhouse gas mitigation potential, Journal of Building Engineering 2024, 82, 108232
40. S. Panda, G. Roy, T. Basu and D. Panda, Facet {100} Fosters Resonance Energy Transfer in Ni/Co-Doped CsPbBr3 Nanocrystals, ACS Appl. Energy Mater. 2024, 7, 21, 10179-10188, DOI: 10.1021/acsaem.4c02366
41. E. Kushwaha, G. Roy, M. Kumar, A. M. dos Santos, S. Ghosh, D. T. Adroja, V. Caignaert, O. Perez, A. Pautrat, and T. Basu, Origin of spin-driven ferroelectricity and effect of external pressure on the complex magnetism of the 6*H* perovskite Ba3HoRu2O9, Phys. Rev. B 2024 109, 224418. DOI: 10.1103/PhysRevB.109.224418
42. O. Cojocaru-Mirédin, Y. Yu, J. Köttgen, T. Ghosh, C.-F. Schön, S. Han, C. Zhou, M. Zhu and M. Wuttig, Atom Probe Tomography: a Local Probe for Chemical Bonds in Solids, Advanced Materials 2024, 36, 2403046, DOI: 10.1002/adma.202403046
43. N. Lin, S. Han, T. Ghosh, C.-F. Schön, D. Kim, J. Frank, F. Hoff, T. Schmidt, P. Ying, Y. Zhu, M. Häser, M. Shen, M. Liu, J. Sui, O. Cojocaru-Mirédin, C. Zhou, R. He, M. Wuttig and Y. Yu, Metavalent Bonding in Cubic SnSe Alloys Improves Thermoelectric Properties over a Broad Temperature Range, Advanced Functional Materials 2024, 34, 2315652. DOI: 10.1002/adfm.202315652
44. I. Maria, P. Acharyya, D. Voneshen, M. Dutta, A. Ahad, M. Etter, T. Ghosh, K. Pal and K. Biswas, Evidence of Lone Pair Crafted Emphanisis in the Ruddlesden–Popper Halide Perovskite Cs2PbI2Cl2, Advanced Materials 2024, 36, 2408008. DOI: 10.1002/adma.202408008

5 Articles with maximum no. of Citations in last 5 years

1. V. Srivastava and A. K. Choubey, Investigation of adsorption of organic dyes present in wastewater using chitosan beads immobilized with biofabricated CuO nanoparticles, *Journal of Molecular Structure* 2021, 1242, 130749, DOI: 10.1016/j.molstruc.2021.130749 (Citation - 74)
2. A. Anand, A. Shukla, A. Kumar, D. Buddhi and Atul Sharma, Cycle test stability and corrosion evaluation of phase change materials used in thermal energy storage systems, *Journal of Energy Storage* 2021, 39, 102664, DOI: 10.1016/j.est.2021.102664 (Citation - 63)
3. A. Shukla, K. Kant, P. H. Biwole, R. Pitchumani and Atul Sharma, Melting and solidification of a phase change material with constructal tree-shaped fins for thermal energy storage, *Journal of Energy Storage* 2022, 53, 105158, DOI: 10.1016/j.est.2022.105158 (Citation - 62)
4. A. Srivastava, A. Anand, A. Shukla, A. Kumar, D. Buddhi and A. Sharma, A comprehensive overview on solar grapes drying: Modeling, energy, environmental and economic analysis,

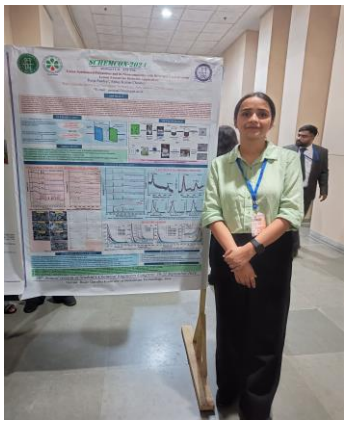
Sustainable Energy Technologies and Assessments 2021, 47, 101513, DOI: 10.1016/j.seta.2021.101513 (Citation - 61)

5. G. Dey, R. Jana, S. Saifi, R. Kumar, D. Bhattacharyya, A. Datta, A. S. K. Sinha and Arshad Aijaz, Dual Single-Atomic Co–Mn Sites in Metal–Organic-Framework-Derived N-Doped Nanoporous Carbon for Electrochemical Oxygen Reduction, *ACS Nano*, 2023, 17, 19155, DOI: 10.1021/acsnano.3c05379 (Citation - 54)

Other activities

Indian Faculty visits in the Department/Centre/Centre

S. No.	Name of Faculty Member	Purpose of Visit	Date and Venue
1	Prof. Sujit K Ghosh, IISER Pune	Invited Talk	RGIPT, 30th August 2024
2	Prof. Anil Kumar, DTU Delhi	Online Talk	RGIPT, 5th September 2024
3	Dr. S. D. Kaushik, UGC-DAE-CSR, Mumbai	SERB Sponsored Workshop	RGIPT, 30th November 2024
4	Prof. Ambesh Dixit, IIT Jodhpur	Discussion on energy and Physics research	RGIPT, 18th December 2024







Chapter-9

Department of Management Studies

Year of Establishment: 2008
Head: Dr. Jaya Srivastava

Brief Introduction of the Department/Centre:

Rajiv Gandhi Institute of Petroleum Technology (RGIPT) has been established in 2008 and is a Government MBA College located in Amethi, Uttar Pradesh. It is approved by AICTE and offers two separate 2-year full-Time MBA Programmes: MBA and MBA (Business Analytics). The Institute focuses on creating a cadre of human resource with necessary skills and competencies to manage key positions in various segments of the corporate world and the energy sector.The MBA programs are designed to facilitate students in understanding,developing,and applying knowledge of both core and specialized management areas and their concepts and practices in the field of management , data sciences, and energy domain.

Major areas of Research

Business and Energy Applications of AI/ML/DL/Text Mining/NLP etc.

Infrastructure

S. No.	Particulars	Number
1	No. of Classrooms	1
2	No. of Lecture Halls	1
3	No. of Laboratory	0
4	No. of Computers available for students in the Department/Centre/ Centre	40

Unique Achievement / Preposition of the Department/Centre:

Academic Programmes offered:

Executive MBA in Energy Transition Management

Students on Roll

S. No.	Programme	I Year	II Year	III Year	IV Year	V Year & above
1.	B. Tech					
2.	IDD					
3.	M. Tech/MBA	23	37			
4.	Diploma					
5.	Ph. D (Under Institute Fellowship)	2	2	2	1	1
6.	Ph. D (Under Project Fellowship)	1				
7.	Ph. D (Under Sponsored Category)					

Names of students/scholars who attended conferences/workshops/seminars and symposia abroad or in India:

S. No.	Name of Student	Roll No.	Conference/Seminar/Symposia/Workshop	Date & Venue	Financial Assistance From
ÌNDIA					
1	Mr. Sachin Singh	23MS0005	13th International Conference of the Emerging Markets Conference Board (EMCB)	19-21 December 2024; IIM Lucknow-Noida Campus	RGIPT
2	Mr. Sachin Singh	23MS0005	1st International Conference on "Sustainable Management Strategies for India's Future"	9-11 May 2025, IIM Kashipur	RGIPT
3	Mr Vedant Tiwari	24MS0010	13th International Conference of the Emerging Markets Conference Board (EMCB)	19-21 December 2024; IIM Lucknow-Noida Campus	RGIPT
4	Mr Anuj Kumar	23MS0001	13th International Conference of the Emerging Markets Conference Board (EMCB) Best Paper Award	19-21 December 2024; IIM Lucknow-Noida Campus	RGIPT
5	Mr. Harsh Singh	23MS0002	1st International Conference on "Sustainable Management Strategies for India's Future"	9-11 May 2025, IIM Kashipur	RGIPT

Names of students/scholars who got prizes and awards outside the Institute:

S. No.	Name of Student	Roll No.	Name of Prize	Date & Venue	Prize awarded by
1	Mr Anuj Kumar	23MS0001	Best paper Award	19-21 December 2024; IIM Lucknow-Noida Campus	IIM Lucknow

Faculty & their Activity

Faculty and their areas of specialisation:

S. No.	Name, Qualifications, Employee No.	Date of award of PhD Degree	Date of Joining in the Department	Major Areas of Specialization (Max. 3)
PROFESSORS				
1	Sanjay Kumar Kar	Aug 2009	Aug 2009	Marketing, Retailing, Energy
ASSOCIATE PROFESSORS				
1	Rohit Bansal	Dec 2014	July 2013	Finance, Behavioural Finance, Accounting
2	Jaya Srivastava	Nov 2007	Aug 2009	Human Resource Management
3	Saroj Kumar Mishra	May 2012	Dec 2011	Marketing, Consumer Behaviour, B2B Marketing
4	Kavita Srivastava	November 2016	Nov 2016	Marketing, Consumer Behaviour
ASSISTANT PROFESSORS				
1	Shrawan Kumar Trivedi	May 2015	July, 2022	Business Analytics and Information Systems
2	Debashis Jena	Feb 2012	Mar, 2011	Operations & Supply Chain Management
3	Abhay Pant	Feb 2019	Dec 2024	Economics

Technical and Non-Teaching Staff

Sl. No.	Name, Qualifications	Designation, Employee No.	Date of Appointment in the department
1	Arvind Kumar Verma (M. Com) PGDCA	Assistant Gr-I	August 2019
2	Khushboo Bano (B. Com) D.el ed, ADCA,	Assistant Gr-I	April 2023
3	Sarvesh Upadhyay (B. Sc, B. ed, ADCA)	Office Attendant	May 2023

Short-term courses/workshops/seminars/symposia/conferences organised by faculty members:

S. No.	Cordinator	Title	Period
1	Dr. Rohit Bansal (IOCL Training Program)	MDP	14-25 July 2025
2	Prof. Sanjay Kar	Gas Paradigm 2025-Strategies for a Gas-Based Economy	22-23 April 2025
3.	Dr. Jaya Srivastava (Mentoring Session for IOCL)	MDP	3rd Feb 2025
4	Dr. Jay Srivastava (Art of Negotiation for IOCL)	MDP	18-19 November 2024

Short-term courses/workshops/seminars/symposia/conferences/training programmes attended by faculty members in academic institutions and public sector undertakings:

S. No.	Name of Faculty Member	Title	Period and Venue
Seminars/Symposia/Conferences			
1.	Dr. Roopa Manjunatha	2024 IEEE 29th Asia Pacific Conference on Communications (APCC)	05-07 November 2024, Bali, Indonesia
2.	Dr. Roopa Manjunatha	2024 17th International Conference on Sensing Technology (ICST)	9-11 December 2024, Sydney, Australia
1	Dr. Rohit Bansal	Research Collaboration	20st July 2024, Saudi Electronic University, Riyad KSA
2	Dr. Rohit Bansal	Research Collaboration	12th Dec 2024, Ministry of Defence, New Delhi
3	Dr. Rohit Bansal	Research Collaboration	15th Jan 2025, Hal, Korba for research and industry projects

Special lectures delivered by faculty members in other institutions:

S. No.	Name of faculty Member	Topic of Lecture	Institution	Date
1	Dr. Rohit Bansal	External Examiner	MNIT Jaipur	02 June 2025
2	Dr. Rohit Bansal	Research Methodology	GTU, Ahmedabad	10 July 2025
3	Prof. Sanjay Kumar Kar	Energy Transition	Indian Institute of Forest Management, Bhopal	20 Nov. 2024

Honours and awards:

S. No.	Name of Faculty Member	Details of Award
1	Dr Shrawan Kumar Trivedi	Best Paper Award (IIM Lucknow)

Faculty members on the Editorial boards of journals

S. No.	Name of Faculty Member	Position (Editor/ member)	Name of Journal
1	Prof. Sanjay Kumar Kar	Editorial Board Member	Energy Research & Social Science

Design and Development Activities

New facilities added

S. No.	Details (Infrastructure, Equipment, etc.)	Value (in Lakhs of Rupees)
1	Business Analytics LAB	50 Lakhs
2	Software's	20 lakhs

Patents Filed

S. No.	Name of Faculty Member	Title of Patent
1	Dr. Rohit Bansal	The Solar-Powered Plant & Soil Health Monitoring System

Research and Consultancy

Sponsored research projects

S. No.	Title	Period	Funding Agency	Amount (in lakhs of Rs.)
1	Understanding the behavioural determinants of Robo-advisory financial services adoption in Saudi Arabia	24 Months	Saudi Electronic University, Jeddah	15 Lakhs
2	The Effect of Demographic Factors on Risk Tolerance: A case Study for the Kingdom of Saudi	24 Months	Saudi Electronic University, Jeddah	20 Lakhs
3	A Critical Assessment and Socio-economic Impact of Ayushman Bharat Pradhan Mantri Jan Arogya Yojana In the Amethi District, Uttar Pradesh	8 Months	ICSSSR New Delhi	06 Lakhs
4	The empirical study of Hydrogen Fuel Cell Vehicle adoption in Saudi Arabia,	24 Months	Saudi Electronic University, Jeddah	18.5 Lakhs
5	The adoption of Solar Energy in Amethi and Raebareli Districts	12 Months	ICSSR, New Delhi	13.5 Lakhs

Industrial consultancy projects

S. No.	Name of Faculty Member	Title	Industry	Amount (in lakhs of Rs.)
1	Dr. Rohit Bansal	A study on adoption of advanced biofuels in India: A focus on bioethanol	IOCL	7 Lakhs
2	Dr. Rohit Bansal	A study on hydrogen industry competitiveness in India: Role of North-eastern states	OIL	9.79 Lkhs

Refereed International Journals:

1. Roy, A. D., Kumar, P., Jena, D., & Trivedi, S. K. (2024). Decoding Sustainable LPG: A Topic Modeling Study on Emerging Patterns and Practices. *Academy of Marketing Studies Journal*, *28*(2).
2. Trivedi, S. K., Roy, A. D., Kumar, P., Jena, D., & Sinha, A. (2024). Prediction of consumers refill frequency of LPG: A study using explainable machine learning. *Heliyon*, *10*(1).
3. Yadav, S. S., Kar, S. K., & Trivedi, S. K. (2024). Investigating emerging trends in sustainable fashion research: topics, challenges, strategies, and future directions. *IEEE Transactions on Engineering Management*, *71*, 5600-5615.
4. Trivedi, S. K., Singh, A., Irfan, M., & Patra, P. (2024). Energy transition, the next hotspot of energy research: a study using topic modeling. *IEEE transactions on engineering management*, *71*, 5829-5846.
5. Trivedi, S. K., Chalapathi, D. S., Srivastava, J., Singh, S., & Deb Roy, A. (2024). Insights on emotional labour research: a topic modelling approach. *Global Knowledge, Memory and Communication.*
6. Singh, A., Trivedi, S. K., Vishnu, S., T, H., & Zhang, J. Z. (2024). Investigating various cryptocurrency research trends: an analysis employing text mining and topic modeling. *Global Knowledge, Memory and Communication.*
7. Trivedi, S. K., Srivastava, J., Patra, P., Singh, S., & Jena, D. (2024). Recognize and thrive: predicting employees' satisfaction towards fairness in reward and recognition system using explainable machine learning and text mining. *Global Knowledge, Memory and Communication.*
8. Singh, S., Awasthi, K., Patra, P., Srivastava, J., & Trivedi, S. K. (2024). Sustainable HRM the next hotspot for management research? A study using topic modelling. *International Journal of Organizational Analysis*, *32*(9), 1957-1981.
9. Trivedi, S. K., Patra, P., Srivastava, P. R., Zhang, J. Z., & Zheng, L. J. (2024). What prompts consumers to purchase online? A machine learning approach. *Electronic Commerce Research*, *24*(4), 2953-2989.
10. Verma, P. K., Trivedi, S. K., & Biswas, S. (2025). Exploring trends and gaps in sustainable e-library research: a text mining analysis. *Digital Library Perspectives*, *41*(2), 311-345.
11. Trivedi, S. K., Yadav, S. S., Awasthi, K., & Singh, S. (2025). Driving sustainable consumption of energy-saving appliances: an in-depth qualitative text analysis of consumer perceptions. *Smart and Sustainable Built Environment.*
12. Sidhartha Harichandan, Sanjay Kumar Kar, Rajnandan Patnaik; Sustainable supply chain in green hydrogen industry in India using SAP-LAP and paradox framework. *International Journal of Energy Sector Management* 2025; https://doi.org/10.1108/IJESM-09-2024-0043
13. Shantanu Gupta, Sher Singh Yadav, Sanjay Kumar Kar, Sidhartha Harichandan; Factors influencing the purchase intention of ethanol blended fuel in India: a sustainable cities perspective. *Journal of Advances in Management Research* 2025; https://doi.org/10.1108/JAMR-03-2024-0082
14. Sher Singh Yadav, Sanjay Kumar Kar, Influence of religious value and minimalism on repurchase intention of sustainable fashion: A combined PLS-SEM and NCA approach, Journal of Cleaner Production, Volume 486, 2025, 144585, ISSN 0959-6526, https://doi.org/10.1016/j.jclepro.2024.144585.

15. Harichandan, S., Kar, S.K., Kumar, A. (2024). A Comprehensive Review of Bitcoin's Energy Consumption and Its Environmental Implications. In: Maglaras, L.A., Das, S., Tripathy, N., Patnaik, S. (eds) Machine Learning Approaches in Financial Analytics. Intelligent Systems Reference Library, vol 254. Springer, Cham. https://doi.org/10.1007/978-3-031-61037-0_12
16. Sidhartha Harichandan, Sanjay Kumar Kar; An empirical study on technology readiness level of industries to use green hydrogen in India: role of policy interventions. *International Journal of Energy Sector Management* 18 November 2024; 18 (6): 2115–2140. https://doi.org/10.1108/IJESM-01-2024-0011
17. Selecting E-bikes using a Multi-Criteria Integrated Analytic Hierarchy Approach for Sustainable Transportation Option, R Bansal, Y Ansari, N Gupta, M Sharma, Global Transitions
18. Investor sentiment and its implication on global financial markets: a systematic review of literature, PK Maurya, R Bansal, AK Mishra, Qualitative Research in Financial Markets
19. An in-depth examination of the financial ratios of metals and mining companies in India, R Bansal, S Sinha, M Kaur, Journal of Management and Science 15 (1), 83-101
20. Robo-advisory financial services and the dynamics of new innovation in Saudi Arabia, Y Ansari, R Bansal, Journal of Open Innovation: Technology, Market, and Complexity 10 (4), 100397
21. Dynamic connectedness among market volatilities: a perspective of COVID-19 and Russia-Ukraine conflict, PK Maurya, R Bansal, AK Mishra, Studies in Economics and Finance 41 (5), 1119-1140
22. An empirical analysis of Saudi Arabian women's intentions to adopt hydrogen fuel cell cars, Y Ansari, R Bansal, SK Kar, Transportation Research Interdisciplinary Perspectives 28, 101269
23. Exploring the complex dynamics: Examining the influence of deviant personas in online gambling, G Malik, D Singh, R Bansal, Journal of Gambling Studies 40 (3), 1271-1294
24. The Energy Market: Transformation, Privatization, and Diversification, R Bansal, R Verma, S Gupta, The South Asian Energy Corridor, 143-153
25. Understanding bank lending and its relationship with profitability and non-performing loans: a meta-analysis S Gupta, R Bansal, Financial equality through technology: Do perceived risks deter Indian women from sustained use of mobile payment services? P Yadav, A Kumar, S K Mishra, K Kochhar; International Journal of Information Management Data Insights, 4, 2024.
26. Predicting NFC-based mobile payments usage intention with perceived usefulness as mediator: a dual-stage PLS-SEM and NCA analysis; A Kumar, S K Mishra, A Saini; Journal of Advances in Management Research, 21 (4), 556-583.
27. Global Outreach of Indian Sustainable Handicrafts Export Market during the Pre-Pandemic and Post-Pandemic; R Choudhary, S K Mishra; Journal of Marketing & Social Research, 2(4), 2025.
28. Modeling Factors for Consumer Purchase Intention towards Handicraft Products: A TISM Approach; R Choudhary, S K Mishra; Academy of Marketing Studies Journal, 29 (1), 2025.
29. The Indian Energy and Emission Outlook: A Case for Solar Energy; B R Pradhan, S K Mishra; Journal of Informatics Education and Research, 5 (1), 2025.
30. Electricity Demand Dynamics in India & Policy Recommendations for Sustainable Electricity Availability Based on Solar Energy; B R Pradhan, S K Mishra; European Economic Letters, 15 (1), 2025

31. Prediction of consumers refill frequency of LPG: A study using explainable machine learning. Trivedi, S. K., Roy, A. D., Kumar, P., Jena, D., & Sinha, A.; Heliyon, 10(1), e23466., 2024
32. Maintenance in Aviation Enabled by Industry 4.0 Technologies: Exploring the Current Research Trends Using a Topic Modeling Approach; Rath, B., Jha, K. K., Padhy, R., & Jena, D.; International Journal of Productivity and Performance Management, Dec. 2024
33. Crack Spread Forecasting for Supply Chain Optimization – A Hybrid Model Using Time Series and Deep Learning with Bayesian Optimizations"; Kumar, P., Jena, D., Kumar Trivedi, S., Padhy, R., & Deb Roy, A.; Academy of Marketing Studies Journal 28, no. 3 (2024)
34. Tripathy, R. K. and Srivastava. K., (2025) Optimizing Waste-to-Energy Ventures in India: Best Value Procurement as a Strategic Imperative, published in the Journal of European Economic Letters: ISSN 2323-5233 Vol 14, Issue 3 doi.org/10.52783/eel.v14i3.1766
35. Tripathy, R. K. and Srivastava. K., Navigating the Circular Economy in Sustainable Development: A Creative Framework based on People First PPP for Waste-to-Energy Projects in India, published in Recent Trends in Engineering and Science for Resource Optimization and Sustainable Development –Prof. (Dr.) Dorota Jelonek et al. (eds) © 2024 Taylor & Francis Group
36. Chaudhary, E., Srivastava, K (2025) The drivers and deterrents of collaborative consumption in India: A qualitative approach, Journal of Global Responsibility (DOI: 10.1108/JGR-01-2024-0003)
37. Pal, D., Srivastava, K. et al (2024), Sensory Marketing: Mediating role of hedonic emotions between multisensory experiences and mall patronage intention, *Asia Pacific Journal of Marketing and Logistics (2025) 37 (1): 80–98.*
38. Srivastava, K. and Pal, D. (2024), "Importance of AI attributes in Indian retail stores: a conjoint analysis approach", *International Journal of Retail & Distribution Managemen*t, Vol. 52 No. 3, pp. 355-371.
39. Pal, D. and Srivastava, K. (2024), "Consumer patronage intention: role of multi-sensory and atmospheric experiences in retail", *International Journal of Retail & Distribution Management* 52 (2): 240–258.

Indian Faculty visits in the Department/Centre/Centre:

S. No.	Name of Faculty Member	Purpose of Visit	Date and Venue
1	Dr. Rohit Bansal	Research Collaboration	02 June 2025, MN IT Allahabad
2	Dr. Rohit Bansal	Research Collaboration	11 July 2025, HAL, Korba
3	Dr. Rohit Bansal	Research Collaboration	10 July 2025, GTU Ahmedabad

Chapter-10

Department of Computer Science & Engineering

Year of Establishment: 2020
Head: Dr. Susham Biswas w.e.f. July 2019

Brief Introduction of the Department/Centre:

The Department of Computer Science and Engineering (CSE) at the Rajiv Gandhi Institute of Petroleum Technology (RGIPT) is dedicated to fostering excellence in education and research in computer science and its applications. The Department was established in July 2024 and aims to produce highly skilled professionals and researchers who can meet the demands of the rapidly evolving energy and technology sectors. The department offers a range of undergraduate and postgraduate programs in computer science and engineering, designed to equip students with a strong theoretical foundation and practical skills. The curriculum is regularly updated to keep up with industry trends and technological advancements. The CSE department emphasizes cutting-edge research in various domains such as artificial intelligence, machine learning, cloud computing, fog computing, edge computing, cybersecurity, etc. The department boasts a team of highly qualified faculty members committed to providing quality education and mentoring students. Their expertise spans a wide range of specializations, ensuring a comprehensive learning experience for students. In addition to academics, the department encourages students to participate in various co-curricular and extracurricular activities. These include technical workshops, hackathons, seminars, and conferences, which help develop students and enhance their problem-solving and leadership skills.

Major areas of Research

Geoinformatics, LiDAR, AR/VR, UAV -IoT analytics, AI/ML, Information Security, Blockchain, Image Processing and Real-time scheduling, Cloud Computing, Medical image analysis, Fog Computing, Crowdsourcing, Team Formation and Resource Allocation, Software Defined Networking, Machine Learning/Deep Learning Applications, Graph Neural Networks for Social Network Analysis

Infrastructure

S. No.	Particulars	Number
1	No. of Classrooms	3
2	No. of Lecture Halls	3
3	No. of Laboratory	4
4	No. of Computers available for students in the Department/Centre/ Centre	250

Academic Programmes offered

List of Programmes offered by the CSE Department

1. B.Tech in Computer Science and Engineering
2. B.Tech in Information Technology
3. B.Tech. in Computer Science & Design Engineering
4. IDD in Computer Science & Engineering and Artificial Intelligence

New Courses Introduced:

S. No.	Course Code	Course name	Course credit
1	CS352	UX/UI Design	6
2	CS352L	UX/UI Design Laboratory	2
3	CS346	Robotics Design & IoT	9

Students on Roll

S. No.	Programme	I Year	II Year	III Year	IV Year	V Year & above
1.	B. Tech	167	156	153	84	NA
2.	IDD	40	42	36	25	0
3.	M. Tech/MBA	NA	NA	NA	NA	NA
4.	Diploma	NA	NA	NA	NA	NA
5.	Ph. D (Under Institute Fellowship)	2	1	0	2	0
6.	Ph. D (Under Project Fellowship)	0	0	0	0	0
7.	Ph. D (Under Sponsored Category)	0	2	0	0	0

Names of students/scholars who attended conferences/workshops/seminars and symposia abroad or in India:

S. No.	Name of Student	Roll No.	Conference/Seminar/Symposia/Workshop	Date & Venue	Financial Assistance From
ÌNDIA					
1	Devansh Goyal	21CS3015	15th International Conference on Computing Communication and Networking Technologies (ICCCNT)	24/06/2024, IIT Mandi	RGIPT

Names of students/scholars who got prizes and awards outside the Institute:

S. No.	Name of Student	Roll No.	Name of Prize	Date & Venue	Prize awarded by
1	Khushi Kalra	22CS3035	Smart India Hackathon 2024 (1 Lakh Rupees)	Chandigarh College of Engineering, Jhanjeri, 11-15/12/2024	Ministry of Education
2	Rishit Tiwari	22CS3050	Smart India	Chandigarh	Ministry of

			Hackathon 2024 (1 Lakh Rupees)	College of Engineering, Jhanjeri, 11-15/12/2024	Education
3	Rishi Jain	22IT3038	Smart India Hackathon 2024 (1 Lakh Rupees)	Chandigarh College of Engineering, Jhanjeri, 11-15/12/2024	Ministry of Education
4	Rohit Sharma	22IT3040	Smart India Hackathon 2024 (1 Lakh Rupees)	Chandigarh College of Engineering, Jhanjeri, 11-15/12/2024	Ministry of Education
5	Swayanshu Rout	22IT3057	Smart India Hackathon 2024 (1 Lakh Rupees)	Chandigarh College of Engineering, Jhanjeri, 11-15/12/2024	Ministry of Education
6	Shikhar	22IT3046	Smart India Hackathon 2024 (1 Lakh Rupees)	Chandigarh College of Engineering, Jhanjeri, 11-15/12/2024	Ministry of Education
7	Anshu Priya	22CS2020	Smart India Hackathon 2024 (1 Lakh Rupees)	IIT Kharagpur, 11-15/12/2024	National Technical Research Organisation (NTRO)
8	Aditya Pandey	22CD3004	Smart India Hackathon 2024 (1 Lakh Rupees)	IIT Kharagpur, 11-15/12/2024	National Technical Research Organisation (NTRO)
9	Samminga Sainath Rao	21CS2018	Smart India Hackathon 2024 (1 Lakh Rupees)	KCG College of Technology, Chennai, 11-15/12/2024	Ministry of Communication
10	Sunny Kumar	21CS3066	Smart India Hackathon 2024 (1 Lakh Rupees)	KCG College of Technology, Chennai, 11-15/12/2024	Ministry of Communication
11	Debpratim Som	21CS3065	Smart India Hackathon 2024 (1 Lakh Rupees)	KCG College of Technology, Chennai, 11-15/12/2024	Ministry of Communication
12	Pulkit Chatwal	21CS2027	Smart India Hackathon 2024 (1 Lakh Rupees)	KCG College of Technology, Chennai, 11-15/12/2024	Ministry of Communication
13	Aditya Bakshi	21CS2001	Smart India Hackathon 2024 (1 Lakh Rupees)	KCG College of Technology, Chennai, 11-15/12/2024	Ministry of Communication
14	Nandini Bhalla	22CS2002	Smart India Hackathon 2024 (1 Lakh Rupees)	KCG College of Technology, Chennai, 11-15/12/2024	Ministry of Communication

Names of scholars/students who won Convocation/Institute Day prizes:

S. No.	Name of Student	Roll No.	Name of Prize	Prize awarded by
1	Aastha Shayla	Aastha Shayla	Director's Medal	BoG Precident

Names of Students/Scholars who received foreign Internship:

S. No.	Name of Student	Roll No.	Name of the Organization	Place of Internship	Country	Duration
1	Sanvi Shukla	2cs3054	MITACS	UNB	Canada	8 Months
2	Ankit Sharma	ankits23cs@rgipt.ac.in	MITACS	UNB	Canada	8 Months

Faculty & their Activity

Faculty and their areas of specialization:

S. No.	Name, Qualifications, Employee No.	Date of award of PhD Degree	Date of Joining in the Department	Major Areas of Specialization (Max. 3)
ASSOCIATE PROFESSORS				
1	Dr. Susham Biswas Ph.D. (IIT Kanpur) Emp. ID: 61	June 2011	July 2019	Spatial Analytics Image Processing, LiDAR Remote Sensing, AI/ML UAV AR/VR-GIS, Digital Twin, Quantum Computing
ASSISTANT PROFESSORS				
1	Dr. Gargi Srivastava Ph.D. (IIT BHU) Emp ID: 0245	January 2020	June 2021	Computer Vision, Image Processing, Artificial Intelligence
2	Dr. Kalka Dubey Ph.D. (IIT Roorkee) Emp Id: 0289	July 2021	May 2022	Cloud Computing, Fog Computing, IoT
3	Dr. Pallabi Saikia Ph.D. (IIT Guwahati) Emp Id: 0292	August 2020	July 2022	Artificial Intelligence, Machine Learning, Multi-sensor Data Analytics
4	Dr. Akash Yadav Ph.D. (IIT Patna) Emp Id:0299	December 2022	March 2023	Algorithms, Computer Networks, IOT Crowdsourcing
5	Dr. Nirbhay Tagore Ph.D. (IIT BHU) Emp Id: 0303	April 2022	May 2023	Computer Vision, AI/ML, Image Processing
6	Dr Santosh Kumar Mishra Ph.D. (IIT Patna) Emp Id:0309	December 2022	August 2023	Natural Language Processing, Artificial Intelligence, Machine Learning
7	Dr. Manish Bhanu Ph.D. (IIT Patna) Emp ID: 0315	June 2023	June 2024	Machine Learning/ Deep Learning, Traffic Prediction, Crisis Informatics, Fake News Detection, Explainable AI
8	Dr. Vivek Singh Baghel Ph.D. (IIT Indore) Emp ID: 0317	March 2023	July 2024	Computer Vision, Biometrics, Machine Learning, and Deep Learning

Visiting Faculty				
1	Mr. Rajiv Sinha	NA	2022	Business Development, Vendor Management, Project Management
2	Mr. Sudhir Agarwal	NA	2022	Strategic Programme, Policy-matters

Technical and Non-Teaching Staff

Sl. No.	Name, Qualifications	Designation, Employee No.	Date of Appointment in the department
1.	Neha Pandey (M.Phil)	Assistant Gr-1	07/01/2022
3.	Shivanshu Mishra (MCA)	Technician Gr-1	16/01/2024

Short-term courses/workshops/seminars/symposia/conferences/training programmes attended by faculty members in academic institutions and public sector undertakings:

S. No.	Name of Faculty Member	Title	Period and Venue
Seminars/Symposia/Conferences			
1.	Dr. Akash Yadav	Gian Course on Advances in Quantum Computing Application	Dec 2024 (2 weeks)

Fellowships of academic and professional societies:

S. No.	Name of Faculty Member	Details of Fellowship
1	Dr. Gargi Srivastava	IEEE
2	Dr. Gargi Srivastava	ACM
3	Dr. Pallabi Saikia	IEEE
4	Dr. Pallabi Saikia	ACM
5	Dr. Susham Biswas	ISRS,ACM

Books, monographs authored/co-authored by the faculty members:

S. No.	Name of Author/Co-Author	Title	Publisher
1	Gargi Srivastava and Sajal Agarwal	Deep learning – enabled optical sensors.	CRC Press
2	Mohit Kumar, Gautam Srivastava, Ashutosh Kumar Singh, Kalka Dubey	AI-Based Advanced Optimization Techniques for Edge Computing	John Wiley & Sons
3	T Bisen, A Shayla, S Biswas	Predicting Oil Spills in Real-Time: A Machine Learning and AIS Data-Driven Approach	*Networking and Parallel /Distributed Computing Systems: Volume 18, 99-115: Springer Nature*
4	A Srivastava, S Biswas	Computation of Environmental Deterioration by Observation of Annual NDVI Changes	Advances in Computational Intelligence and Its pplications Year: 2024: CRC Press
5	A Gupta, M Padsala, D Jani, T Bisen, A Shayla, S Biswas	From Above and Beyond: Decoding Urban Aesthetics with the Visual Pollution Index	Published in: Software Engg., Artificial Intelligence, Networking and Parallel, Year: 2024*: Springer Nature*

Patents Filed

S. No.	Name of Faculty Member	Title of Patent
1	Gargi Srivastava	Copyright - Queazy SW-20179/2025
2	Akash Yadav	Copyright- ClassCapture SW-20190/2025-CO

Research and Consultancy

Sponsored research projects

S. No.	Title	Period	Funding Agency	Amount (in lakhs of Rs.)	Co- ordinator
1	Near Real-Time Multi-Sensor Geospatial Data Processing Using Quantum Machine Learning for Forest Fire Hazard Management	8 Month	MITACS	24,000 Dollar	Dr. Susham Biswas
2	Development of a Human-Machine Interfacing Platform for Remote Operation of Armed Quadruped Robots	14 Months	Army Technology Board, DRDO	36.5 Lakh (accepted)	Mr. Ayush Dwivedi, Dr. Susham Biswas, Dr. Akash Yadav, Dr. Santosh Mishra, Dr. Nirbhay K Tagore
3	Qualitative and Quantitative Modeling of Human Behavior in Cybersecurity Using Behavioral Game Theory	12 months	ICSSR	15 Lakh	Dr. Susham Biswas, Dr. Saptarshi Ghosh, Dr. Ankur Pandey

Industrial consultancy projects

S. No.	Name of Faculty Member	Title	Industry	Amount (in lakhs of Rs.)
1	Dr. Susham Biswas	3D Visualization and Maintenance Analytics Using LiDAR and AR/VR Technologies	Voxel3D Tech	4.5 Lakh (accepted)

Research Publications

S. No.		No.
1	Total Number of Papers Published in Refereed National Journals	0
2	Total Number of Papers Published in Refereed International Journals	5
3	Total Number of Papers Presented in National Conferences	5
4	Total Number of Papers Presented in International Conferences	13

Refereed International Journals

1. Raj, Hritu, and Gargi Srivastava. "A novel data augmentation strategy for gas leak detection and segmentation using Mask R-CNN and bit plane slicing in chemical process environments." Computers & Chemical Engineering (2025): 109407.
2. Steinbach, Thomas J., et al. "Inter-Rater and Intra-Rater Agreement in Scoring Severity of Rodent Cardiomyopathy and Relation to Artificial Intelligence–Based Scoring." Toxicologic pathology 52.5 (2024): 258-265.

3. Tagore, N.K., Medi, P.R. and Chattopadhyay, P., 2024. Deep pixel regeneration for occlusion reconstruction in person re-identification. Multimedia Tools and Applications, 83(2), pp.4443-4463.
4. Kumar, Mohit, Jitendra Kumar Samriya, Kalka Dubey, and Sukhpal Singh Gill. "QoS-aware resource scheduling using whale optimization algorithm for microservice applications." Software: Practice and Experience 54, no. 4 (2024): 546-565.
5. A Saxena, JPGupta, J K Tiwary, A Kumar, S Sharma, G Pandey, Susham Biswas, and K R Chaturvedi. Innovative Pathways in Carbon Capture: Advancements and Strategic Approaches for Effective Carbon Capture, Utilization, and Storage-(AI/ML approach)**.** Sustainability, 2024, *16*(22), 10132; https://doi.org/10.3390/su162210132

Proceedings of International Conferences

1. Jain, Rishi, Swayanshu Rout, and Gargi Srivastava. "ChemVR-AI: An Immersive Virtual Reality Laboratory with Pedagogical Agents." Adjunct Proceedings of the 27th International Conference on Mobile Human-Computer Interaction. 2025.
2. Raj, H. and Srivastava, G. (2025). An OGI Based Unattended Natural Gas Leak Detection System by Utilizing the Power of Machine Learning and Computer Vision. In Proceedings of the 14th International Conference on Pattern Recognition Applications and Methods - ICPRAM; ISBN 978-989-758-730-6; ISSN 2184-4313, SciTePress, pages 823-830. DOI: 10.5220/0013345600003905
3. Chowdhury, Pathikreet, and Gargi Srivastava. "Enhanced Classification and Segmentation of Brain Tumors in MRI Images Using Custom CNN and U-Net Models with XAI." International Conference on Pattern Recognition. Cham: Springer Nature Switzerland, 2024.
4. Gupta, Advait, et al. "From Above and Beyond: Decoding Urban Aesthetics with the Visual Pollution Index." Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing: Volume 17. Cham: Springer Nature Switzerland, 2024. 101-119.
5. Singh, M.P., Bisht, N., Choudhary, M., Goswami, A. and Tagore, N.K., 2025. A Web-Based Supervised Machine Learning Model for Air Quality Index and Respiratory Care Prediction. Procedia Computer Science, 258, pp.1747-1756.
6. Jhalke, R., Sharma, M., Tagore, N.K., Kumar, R. and Singh, M.P., 2024, December. Deep Learning-Driven Person Re-identification: Leveraging Color Space Transformations. In International Conference on Distributed Computing and Intelligent Technology (pp. 225-239). Cham: Springer Nature Switzerland.
7. Sharma, M., Tagore, N.K., Jaiswal, A.K. and Singh, M.P., 2025, February. Integrating Attention-Driven Color Cues and Temporal Dynamics for Advanced Person Re-identification. In International Conference on Information Systems and Management Science (pp. 228-238). Cham: Springer Nature Switzerland.
8. Dubey, Kalka, Aman Raj, Abhishek Kumar Singh, and Satyam Kumar Tripathi. "An Efficient Data Management Policy For IoT Application with Tangential Data Control System in a Cloud Fog Environment." In 2024 15th International Conference on Computing Communication and Networking Technologies (ICCCNT), pp. 1-6. IEEE, 2024.

9. Sumit M, Akash Y, Susham Biswas, 2024, Role of Sum of Objectives in Non-Dominated Sorting to Reduce Dominance Comparisons. TENCON IEEE REGION 10 CONFERENCE, 2024
10. Susham Biswas, Ankit Sharma, Hritu Raj and Surjo Dey, 2024, Automated Structural Health Monitoring of Urban Buildings Using Terrestrial Laser Scanner (TLS) Data: A Deformation Analysis Approach. TENCON IEEE REGION 10 CONFERENCE, 2024
11. Ankit S, Hrituraj, Surjo D, S Biswas, 2024, Automated Detection and Analysis of Minor Deformations in Flat Walls Due to Railway Vibrations Using LIDAR and Machine Learning, IEEE
12. Mishra, Santosh Kumar. "Multi-news summarization using multi-objective differential evolution framework." In *2024 15th International Conference on Computing Communication and Networking Technologies (ICCCNT)*, pp. 1-7. IEEE, 2024.
13. Mishra, Santosh Kumar, Soham Chakraborty, Sriparna Saha, and Pushpak Bhattacharyya. "HinglishCap: A Code Mixed Hindi-English Image Captioning Framework." In International Conference on Neural Information Processing, pp. 357-370. Singapore: Springer Nature Singapore, 2024.

Proceedings of National Conferences

1. Integrating IoT, UAVs, and AI/ML-DL for Urban Smart Applications and Digital Twin. Development: A Modern Perspective, A.Yadav, Biswas S, Sharma A., Shukla S., Jena A. National Seminar on Supply Chain Digital Twin, ICSSR, IIM Sambalpur, 31st Jan -1st February, 2025.

2. Computational Challenges in Designing a Wild Forest Fire Monitoring and Prediction System: Leveraging Satellite, UAV, IoT Data in GIS/Unity with Quantum Machine Learning; Sharma A. Biswas S, A.Yadav, Shukla S., Jena A. National Seminar on Supply Chain Digital Twin, ICSSR, IIM Sambalpur, 31st Jan -1st February, 2025.
3. Leveraging Digital Twin Technology for Wildland Forest Fire Monitoring and Management: Integrating GIS, UAV, and IoT-Based Data; Sharma A. Biswas S, A.Yadav, Shukla S., Jena A. National Seminar on Supply Chain Digital Twin, ICSSR, IIM Sambalpur, 31st Jan -1st February, 2025
4. Macro Digital Twin for Managers: Simplifying Complexity in Integrated System Management; Biswas S, Sharma A., A.Yadav, Shukla S., Jena A. National Seminar on Supply Chain Digital Twin, ICSSR, IIM Sambalpur, 31st Jan -1st February, 2025.
5. Need for a Digital Twin for Renewable-Powered Hydrogen Supply Chain Management in India; D. Jena, Sharma A. Biswas S, A.Yadav, Shukla S., National Seminar on Supply Chain Digital Twin, ICSSR, IIM Sambalpur, 31st Jan -1st February, 2025

5 Articles with maximum no. of Citations in last 5 years

1. Pallabi Saikia, Rashmi Dutta Baruah, Sanjay Kumar Singh, Pradip Kumar Chaudhuri. “Artificial Neural Networks in the Domain of Reservoir Characterisation: A Review from Shallow to Deep Models.” Computers & Geosciences, Elsevier, Volume 135(2), 104357, February 2020. [Citation: 127]
2. Saptarshi Sengupta, Sanchita Basak, Pallabi Saikia, Sayak Paul, Vasilios Tsalavoutis, Vadlamani Ravi, and Alan Peters. “A Review of Deep Learning with Special Emphasis on

Architectures, Applications and Recent Trends.", Knowledge Based Systems, Elsevier, Volume 194(4), 105596, 2020. [Citation: 374]

3. Dubey, Kalka, and Subhash Chander Sharma. "A novel multi-objective CR-PSO task scheduling algorithm with deadline constraint in cloud computing." Sustainable Computing: Informatics and Systems 32 (2021): 100605. [Citation: 105]
4. Dubey, Kalka, S. C. Sharma, and Mohit Kumar. "A secure IoT applications allocation framework for integrated fog-cloud environment." Journal of Grid Computing 20, no. 1 (2022): 5. [Citation: 58]
5. Bajpai, Sushant, Nehil Shreyash, Sukriti Singh, Amir Rauf Memon, Muskan Sonker, Saurabh Kr Tiwary, and Susham Biswas. "Opportunities, challenges and the way ahead for carbon capture, utilization and sequestration (CCUS) by the hydrocarbon industry: Towards a sustainable future." Energy reports 8 (2022): 15595-15616. [Citation: 56]

Chapter-11

Department of Mathematical Engineering

Year of Establishment: 2021
Head: Prof. Chanchal Kundu w.e.f. 12 June 2021

Brief Introduction of the Department/Centre:

Infrastructure

S. No.	Particulars	Number
1	No. of Classrooms	01 (AB2/LR2)
2	No. of Lecture Halls	
3	No. of Laboratory	02 (CCIS common labs. for all)
4	No. of Computers available for students in the Department/Centre/ Centre	14 (for PhD students)

Students on Roll

S. No.	Programme	I Year	II Year	III Year	IV Year	V Year & above
1.	B. Tech/B.Arch	62	61	42	21	
2.	Ph. D (Under Institute Fellowship)	1	1	4	2	3
3.	Ph. D (Under Sponsored Category)				1	2

Names of students/scholars who attended conferences/workshops/seminars and symposia abroad or in India

S. No.	Name of Student	Roll No.	Conference/Seminar/Symposia/Workshop	Date & Venue	Financial Assistance From
ÌNDIA					
1	Kumar Mritunjay	24MA0001 (Scholar)	Numerical Methods for Partial Differential Equations (Workshop)	16/12/2024-27/12/24, IIPE Visakhapatnam	Project P-2230
2	Kumar Mritunjay	24MA0001 (Scholar)	DLSC Workshop 2025	24/03/25-28/03/25, LNMIIT Jaipur	Self
3	Heeraballabh Khanduri	22MA0002 (Scholar)	DLSC Workshop 2025	24/03/25-28/03/25, LNMIIT Jaipur	RSG
4	Jyoti	20BS0007 (Scholar)	5-Day International FDP on Advances in Non-linear Dynamics: Methods and Applications (ANDMA) (Workshop)	11/06/24-15/06/24, VIT-AP University	Self
5	Jyoti	20BS0007 (Scholar)	3rd International Workshop on Advanced Topics in Mathematics (IWATM-2024)	16/12/24-20/12/24, IIIT Naya Raipur	Self

6	Shashank Kumar Shukla	21MA0003 (Scholar)	Workshop on Fractal Geometry and Related Fields (WFGRF-2024)	05/04/2024-07/04/2024, IIIT Allahabad	Self
7	Shashank Kumar Shukla	21MA0003 (Scholar)	International Conference on Matrix Analysis and Mathematical Modelling (MAMM 2024)	29/11/2024-01/12/2024, NIT Jalandhar	RSG
8	Shashank Kumar Shukla	21MA0003 (Scholar)	3rd International Workshop on Advanced Topics in Mathematics (IWATM 2024)	16/12/2024-20/12/2024, IIIT Naya Raipur	Self
9	Shashank Kumar Shukla	21MA0003 (Scholar)	Mini-course on Perturbation Theory of Eigenvalues of Matrices (IWM-Mini courses 2025)	11/01/2025-12/01/2025, ISI Delhi	Self
10	Puja Bharti	21MA0101 (Scholar)	International Confernece on Recent Advances in Mathematics and Statistics in the Era of Data Science	18-20/03/2025, CUJ Ranchi	RSG

Names of students/scholars who got prizes and awards outside the Institute

S. No.	Name of Student	Roll No.	Name of Prize	Date & Venue	Prize awarded by
1	Jyoti	20BS0007	Travel Grant to present a poster	14/02/25, AWM Research Symposium hosted by University of Wisconsin-Madison, USA	National Science Foundation (NSF), USA

Faculty & their Activity

Faculty and their areas of specialisation

S. No.	Name, Qualifications, Employee No.	Date of award of PhD Degree	Major Areas of Specialization (Max. 3 Areas)
	PROFESSORS		
1	Chanchal Kundu, Ph.D., 0009	April 2009	Reliability theory and statistical information theory
	ASSOCIATE PROFESSORS		
1	Manoj K. Rajpoot, PhD, 0097	August 2012	Numerical Analysis, Scientific Computing, Appiled Mathematics
	ASSISTANT PROFESSORS		
1	Sudeep Kundu, PhD, 264	February 2018	Numerical Analysis, Control theory, Partial Differential Equations
2	Gobinda Rakshit, PhD, 0246	August 2020	Numerical Functional Analysis, Approximation Theory
3	Pradeep Das, PhD, 0262	June 2020	Algebraic Geometry, Complex Geometry, Number Theory
4	Soniya Dhama, Ph.D 0216	December 2020	Dynamical Systems, Dynamics of Periodic and Generalized Functions, Physics-Informed Neural Networks (PINNs), Quantum Physics-Informed Neural Networks
5	Dhrubasish Bhattacharyya, PhD, 0306	August 2021	Statistics, Statistical Theory of Reliability and Life Testing, Inference based on censored data

Technical and Non-Teaching Staff

Sl. No.	Name, Qualifications	Designation, Employee No.	Date of Appointment in the department
1	One outsourced Staff (Mathematical Sciences Office)	***	***

Short-term courses/workshops/seminars/symposia/conferences/training programmes attended by faculty members in academic institutions and public sector undertakings

S. No.	Name of Faculty Member	Title	Period and Venue
Seminars/Symposia/Conferences			
1.	Gobinda Rakshit	National Conference on Computational Geometry, Analysis and Machine Learning (NCCGAML 2025)	18-19 April 2025; ICT Mumbai
2.	Gobinda Rakshit	International Conference on Matrix Analysis and Mathematical Modelling (MAMM 2024)	November 29- December 01, 2024; Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab, India
3.	Manoj K Rajpoot	2nd International Conference on Recent Advances in Applied Mathematics (RAAM 2024)	July 03-05, 2024 Department of Mathematical Sciences, IIT (BHU)

Editorial boards of journals

S. No.	Name of Faculty Member	Position (Editor/ member)	Name of Journal
1	Gobinda Rakshit	Member	Applied and Computational Mathematics (ACM)
2	Soniya Dhama	Editor	Applied and Computational Mathematics (ACM)

Research and Consultancy

Sponsored research projects

S. No.	Title	Period	Funding Agency	Amount (in lakhs of Rs.)	Co- Ordinator
1	Closed Loop Control for Parabolic Type Problems: Theory and Computation	28 Dec 2022- 27 Dec 2024	DST SERB	13.2	Sudeep Kundu

Faculty members' participation with other universities under MoUs Research Publications

S. No.		No.
1	Total Number of Papers Published in Refereed National Journals	00
2	Total Number of Papers Published in Refereed International Journals	16
3	Total Number of Papers Presented in National Conferences	00
4	Total Number of Papers Presented in International Conferences	00

Refereed International Journals

1 Das, P, Juyal, A. and Moody, D., (2025), A note on tangential quadrilaterals, Quaest. Math., 48 (2): 365-375

2 G. Rakshit, Shashank K. Shukla, A. S. Rane. A note on improvement by iteration for the approximate solutions of second kind Fredholm integral equations with Green's kernels. The Journal of Analysis, 33: 1599–1621, (2025). DOI: 10.1007/s41478-025-00882-0

3 Alpesh Kumar, G. Rakshit, Deepak Kumar Yadav and Rajesh Yadav. RBF Based some IMEX finite difference schemes for pricing option under liquidity switching. International Journal of Computer Mathematics, 101(7):768-788, (2024). DOI: 10.1080/00207160.2024.2383757

4 Singh, S. and Kundu, C. (2024), On weighted generalized entropy for double truncated distribution with applications. Communications in Statistics-Theory & Methods, Vol. 53, pp. 3102-3122. (Taylor & Francis Group)

5 Sharma, A. and Kundu, C. (2024), Residual and past varinaccuracy measures. IMA Journal of Mathematical Control and Information, Vol. 41, pp. 539-563. (Oxford University Press

6 Sharma, A. and Kundu, C. (2024), Stochastic properties of varentropy based on residual lifetime. Statistics: A Journal of Theoretical and Applied Statistics, Vol. 58, pp. 1117-1139. (Taylor & Francis Group)

7 Puja Bharti, Soniya Dhama, Martin Bohner, Dynamics beyond bounds: (ω, c) -periodic functions and their impact on delayed population models on time scales, Discrete and Continuous Dynamical Systems-S, 2025.2025, Volume 18, Issue 9: 2586-2621.

8 Puja Bharti, Soniya Dhama, (ω, c)-Asymptotically periodic oscillation of cellular neural networks on time scales with leakage delays and mixed time-varying delays. Neural Network, Volume 185, 2025, 107174.

9 Agrawal D., Soniya Dhama., Kostic M., Abbas, S., Periodicity, stability, and synchronization of solutions of hybrid coupled dynamic equations with multiple delays. Mathematical Methods in the Applied Sciences, Vol. 47, pp. 7616-7636, 2024

10 Manoj Kumar, Soniya Dhama, Faez A Alqarni, Syed Abbas, Khaled A Aldwoah, Mathematical analysis and optimal control of age-structured social interaction model with law enforcement. Mathematical Methods in the Applied Sciences, Volume48, Issue3.

11 Soniya Dhama., Castillo S., Abbas S., Pinto M., Existence and Roughness of Nonuniform Exponential Dichotomies on Time Scales. Qualitative Theory of Dynamical Systems, Vol. 23, pp. 1-36, 2024

12 Bhattacharyya, D., Kundu, D. (2025). On classical inference of a flexible semi-parametric class of distributions under a joint balanced progressive censoring scheme. Applied Stochastic Models in Business and Industry, 41 (1): e2924, DOI: https://doi.org/10.1002/asmb.2924

13 Jyoti, Vikas Maurya, Ankit Singh, Vivek S. Yadav, and Manoj K. Rajpoot, Acoustic and soliton propagation using fully-discrete energy preserving partially implicit scheme in homogeneous and heterogeneous mediums, Computers and Mathematics with Applications, 174, 379-396, 2024

14 Jyoti, Ankit Singh, Vikas Maurya, Vivek S. Yadav, and Manoj K. Rajpoot, Strong Stability Preserving Multiderivative Time Marching Methods for Stiff Reaction-Diffusion Systems, Mathematics and Computers in Simulation, 225, 267-282, 2024

15 S. Kumar, B. Ramcharan, Vivek S. Yadav, Ankit Singh, Y. G. Bhumkar, and Manoj K. Rajpoot, Exploring Acoustic and Sound Wave Propagation Simulations: A Novel Time Advancement Method for Homogeneous and Heterogeneous Media, Advances in Applied Mathematics and Mechanics, 17, 315-349, 2025

16 Ankit Singh, Vikas Maurya, and Manoj K. Rajpoot, Numerical Analysis and Simulation of European Options under Liquidity Shocks: A Coupled Semilinear System Approach with New IMEX Methods, Computers and Mathematics with Applications, 165, 28-38, 2024

5 Articles with maximum no. of Citations in last 5 year

1 Kundu, C., and Singh, S. (2020), On generalized interval entropy. Communications in Statistics- Theory & Methods, Vo. 49, pp. 1989-2007.
2 Kundu, C. (2023), On cumulative residual (past) extropy of extreme order statistics. Communications in Statistics- Theory & Methods, Vol. 52, pp. 5848-5865. (Taylor & Francis Group)
3 Sharma, A. and Kundu, C. (2023), Varentropy of doubly truncated random variable. Probability in the Engineering and Informational Sciences, Vol. 37, pp. 852-871. (Cambridge University Press)
4 P. Sagaut, V. K. Suman, P. Sundaram, Manoj. K. Rajpoot, Y. G. Bhumkar, S. Sengupta, A. Sengupta, T. K. Sengupta, Global Spectral Analysis: Review of Numerical Methods, Computers and Fluids, 261, 105915, 2023
5 V. S. Yadav, N. Ganta, B. Mahato, Manoj. K. Rajpoot, and Y. G. Bhumkar, New time-marching methods for compressible Navier-Stokes equations with applications to aeroacoustics problems, Applied Mathematics and Computation, 419, 126863, 2022
6 Praveen K. Maurya, V. S. Yadav, B. Mahato, N. Ganta, Manoj. K. Rajpoot, and Y. G. Bhumkar, New optimized Implicit-Explicit Runge-Kutta methods with applications to the Hyperbolic Conservation Laws, Journal of Computational Physics, 446, 110650, 2021
7 Vivek S. Yadav, Vikas Maurya, Praveen K. Maurya, and Manoj K. Rajpoot, Novel hybrid compact schemes for stream function–velocity formulation of the incompressible Navier–Stokes equations, Physics of Fluids, 35, 017114, 2023

Any other Information

Review by Dr. Pradeep Das:

1 Mathematical Reviews for American Mathematical Society
2 Reviewer for research papers submitted to special issue of Journal Proceedings of the Jangjeon Mathematical Society (PJMS) & Applications and Applied Mathematics: An International Journal (AAM)

Review by Sudeep Kundu

1 Reviewer for the research paper submitted to journal "Nonlinearity"

Review by Dr. D. Bhattacharyya

1. Reviewed for the `Journal of Statistical Computation and Simulation'.

Paper Reviewed by Dr. C. Kundu for the following Journals:

1. Mathematical Reviews by American Mathematical Society (MR 123629).

Journal of Inequalities and Applications

- Statistical Papers
- Methodology and Computing in Applied Probability
- Mathematical Methods of Statistics
- Journal of Statistical Theory and Practice

Paper Reviewed Soniya Dhama for the following Journals:

- Chaos, Solitons & Fractals (Elsevier)

- Neurocomputing (Elsevier)
- Neural Networks (Elsevier)
- Journal of Inequalities and Applications (Springer)
- Differential Equations and Dynamical Systems (Springer)
- Mathematical Problems in Engineering (Hindawi)
- Qualitative Theory of Dynamical Systems (Springer)
- Journal of Experimental & Theoretical Artificial Intelligence (Taylor & Francis
- Computer Modeling in Engineering & Sciences (Tech Science Press)

Paper Reviewed Manoj K. Rajpoot for the following Journals:

- Computers and Mathematics with Applications, Elsevier
- Physics of Fluids, AIP
- Communications in Nonlinear Science and Numerical Simulation, Elsevier
- Journal of Computational and Applied Mathematics, Elsevier
- Scientific Reports, Nature
- Numerical Algorithms, Springer
- Mathematical Reviews for American Mathematical Society

Chapter-12
Centre for Computing and Information Services (CCIS)

Network Connectivity and Internet

CCIS provides uninterrupted gigabit network connectivity to the entire campus, including Academic Buildings, Student Hostels, the Central Library, Administrative Building, Vivekananda Lecture Hall, Commercial Complex, Guest Hostel, Health Centre, and Employee Residences through a 24-core OFC architecture. Internet access is provided via a dedicated 1:1 leased line of 10 Gbps from the National Knowledge Network (NKN). The Institute is part of the NKN, which connects all national-level institutes through a high-speed fiber network.

High-Performance Computing (HPC) Cluster

The HPC facility installed at CCIS is used for the simulation of mathematical, physical, and engineering problems. Major application areas include numerical reservoir simulation, multiphase flows, flow through porous media, molecular dynamics simulations, seismic wave propagation, and forced/natural convection-dominated flows. Currently, the HPC cluster consists of nine nodes (one master and eight compute nodes, Fujitsu PR3000). Each node is equipped with dual processors, with 20 cores per processor, totaling 180 cores. The cluster also supports software such as Gaussian and Tec360.

A/V System

The auditorium is well-equipped with a Harman and JBL audio/video system with video streaming & recording facility.

Communication Devices

EPABX Server

Cisco BE6000H EPABX server with support for up to 1000 users, RAID 5 configuration, 64 GB DDR4-2400 MHz RDIMM, 770W AC hot-plug power supply for a 1U C-series rack server, and 300×8 GB 12G SAS 10K RPM SFF HDD.

Wi-Fi Controller

Cisco Wi-Fi Controller (Cisco 5520) with scalability for up to 300 access points, supporting 2×10 Gigabit Ethernet interfaces or 2 Gigabit Ethernet interfaces. It includes an inbuilt license supporting 300 access points. And Tp-link Omada Hardware Controller OC300 with support up to 500 access points. The campus is fully equipped with the latest Cisco & Tp-Link Access Points.

Firewall

The campus network is protected by a Sophos XGS 4300 firewall, which enables high-performance TLS 1.3 inspection, deep packet inspection, and network flow FastPath to accelerate trusted SaaS,

SD-WAN, and cloud application traffic. It also integrates with Sophos Central to link protected endpoints with the firewall, enabling faster threat detection, simplified investigations, and minimal impact of attacks.

Software Services

MATLAB

MATLAB integrates mathematical computing, visualization, and a powerful programming language to provide a flexible environment for technical computing.

COMSOL

COMSOL software provides tools and solutions for data analysis, report generation, and enterprise-wide information delivery. It can be used for data access, management, analysis, and presentation across a wide range of applications.

AutoCAD

AutoCAD is a professional two-dimensional CAD program that offers communication and collaboration tools along with advanced productivity features.

SPSS (Statistical Package for the Social Sciences)

SPSS is a data management and analysis software product. It supports statistical analysis, data management, and graphical presentation of results.

ASPEN

ASPEN is a process simulation software package widely used in both industry and academia. Given a process design and appropriate thermodynamic models, ASPEN uses mathematical modeling to predict process performance.

CMG

CMG is used for advanced reservoir simulation, supporting the development of innovative recovery methods and helping overcome technological barriers to achieve strategic objectives.

Undergraduate Computer Laboratory

CCIS maintains 230 desktop machines across four separate labs, all running Windows operating systems.

Web Servers

The RGIPT website is hosted on dedicated web servers, with its database managed on a separate DB server.

Chapter-13
Academic Programmes and Award of Degree

Rajiv Gandhi Institute of Petroleum Technology (RGIPT), Jais, is an autonomous institution established by the Government of India. The Institute has been accorded the status of "An Institution of National Importance" along the lines of the Indian Institutes of Technology (IIT) under an Act of Parliament ("Rajiv Gandhi Institute of Petroleum Technology Act 2007"). RGIPT is co-promoted as an energy domain specific institute by six leading Oil Public Sector Units (ONGC, IOCL, OIL, GAIL, BPCL and HPCL) in association with the Oil Industry Development Board (OIDB). The Institute is associated with leading international universities and institutions specializing in the domain of Petroleum & Energy Technology. Institute's prime objective is to provide world class education, training, and research to roll out competent human resources to meet the growing requirements of the Petroleum & Energy Sector. The Institute offers B. Tech., IDD and M. Tech. programmes in various Engineering disciplines along with a MBA programme. PhD programmes in various areas of Basic Sciences, Humanities, Engineering and Management are also offered at the Institute.

The B. Tech. programmes of the Institute are aimed at developing manpower with sound theoretical and experimental background in frontier areas of engineering, sciences and interdisciplinary subjects pertaining to petroleum and energy. The emphasis is on understanding the scientific basis and engineering principles involved in solving problems of practical importance in the relevant field using multidisciplinary approach. An important component of these programmes is to in still a sense of social responsibility, promote independent thinking and develop aptitude towards solving real problems among students. These programmes seek to develop manpower of the highest quality to cater to the needs of industry, R & D organizations and academic institutions. The Institute received a rank in 2022 in the NIRF assessment conducted by the MHRD, Government of India. The rank of 79th received by the Institute in the category of Engineering Institutions can be termed as highly impressive considering the fact that the Institute is relatively new with limited student strength and offers domain specific UG and PG programmes. In subsequent years, the aspiration is to be placed within the top 50 in the NIRF ranking framework.

With a view to supplement its on-campus academic offerings, the RGIPT has established two centres at Sivasagar, Assam and Bengaluru, Karnataka. RGIPT Sivasagar Campus, Assam is envisaged to offer programs of education and training of skilled technical manpower at the diploma and advance diploma level courses in various areas of the petroleum sector as per requirements of the oil, gas and petrochemical industries. The RGIPT Bengaluru Campus is mandated to offer academic programmes along with conducting cutting-edge research in the energy domain. The centre is established to also handle technology licensing and commercialization along with translational research.

Admissions 2024–2025

Admissions 2024–2025 Candidates for admission to the 4-Year B. Tech. and 5-Year Dual Degree programmes were selected through JEE (Advanced) or JEE (Mains) with 80% aggregate in Class 12th. 2-Year M. Tech Programmes, candidates are admitted based on GATE score. Quite a few candidates were also selected for the M. Tech. programme under the Sponsored and Q.I.P. programmes through interviews and/or written tests. Selection for the Ph.D. programmes was done through tests/interviews, they must qualify the GATE or GPAT or UGC/CSIR-NET. To attract the foreign national students for Studies in India, the Institute has also taken admission in PG and Ph.D. Programmes through the Study in India. The number of students and scholars admitted to the various programmes in July-August 2024 are listed in Table as shown below.

RGIPT, Jais, Amethi

Programme & Seats Wise Data (among fresh admissions 2024-25)

Sl. No.	Programmes	*No. of Seats (B.Tech. Only)	B. Tech.		Dual Degree (B. Tech. & M. Tech.)		MBA		M. Tech		PhD		Sub Total		Grand Total
			M	F	M	F	M	F	M	F	M	F	M	F	
1	Chemical Engineering	67	42	17									42	17	59
2	Computer Science & Engineering	72	51	11									51	11	62
3	Electronics Engineering	59	38	9									38	9	47
4	Electrical Engineering (Major: E Vehicle Technology)	58	31	2									31	2	33
5	Information Technology	59	41	10									41	10	51
6	Mathematics and Computing	72	48	12									48	12	60
7	Petroleum Engineering	69	45	9									45	9	54
8	Chemical Engineering (Major: Renewable Energy Engg.)	35	15	3									15	3	18
9	Computer Science & Design Engineering	60	34	17									34	17	51
10	Chemical Engineering (Major: Petrochemicals & Polymers Engg.)	36	17	5									17	5	22

11	IDD - B Tech in Petroleum Engineering and MS in Petroleum and Natural Gas Engineering	12			2	0							1	1	2
12	Petroleum Engineering (Major: Applied Petroleum Geoscience)	24	3	0									3	0	3
13	IDD in Computer Science & Engineering and Artificial Intelligent	47			28	12							28	12	40
14	Mechanical Engineering	36	7	2									7	2	9
15	Management Studies	50					22	15					22	15	37
16	PhD (All Branches)	35									23	12	23	12	35
****Total**		**791**	**372**	**97**	**30**	**12**	**22**	**15**			**23**	**12**	**449**	**137**	**583**

** Included supernumerary seats.*

***PhD seats not included in no. of seats.*

RGIPT, Jais, Amethi

Category/Gender-wise students among fresh admissions 2024-25															
Sl. No.	**Course Wise**	***No. of Seats**	**Unreserved**		**EWS**		**OBC-NCL**		**SC**		**ST**		**Sub Total**		**Grand Total**
			M	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**M**	**F**	
1	Chemical Engineering	67	4	5	5	5	22	6	9	1	2	0	42	17	**59**
2	Computer Science & Engineering	72	12	5	12	3	14	1	9	1	4	1	51	11	**62**
3	Electronics Engineering	59	8	5	9	0	16	0	5	4	0	0	38	9	**47**
4	Electrical Engineering (Major: E Vehicle Technology)	58	9	1	4	0	8	0	8	1	2	0	31	2	**33**
5	Information Technology	59	9	3	8	1	16	2	8	3	0	1	41	10	**51**
6	Mathematics and Computing	72	9	6	10	2	21	3	8	1	0	0	48	12	**60**
7	Petroleum Engineering	69	6	2	9	2	22	3	6	2	2	0	45	9	**54**

8	Chemical Engineering (Major: Renewable Energy Engineering)	35	7	2	2	0	3	0	3	1	0	0	15	3	**18**
9	Computer Science & Design Engineering	60	7	9	6	3	15	2	6	3	0	0	34	17	**51**
10	Chemical Engineering (Major: Petrochemicals & Polymers Engg.)	36	7	1	3	1	4	2	3	1	0	0	17	5	**22**
11	IDD - B Tech in Petroleum Engineering and MS in Petroleum and Natural Gas Engineering	12	1	0	1	0	0	0	0	0	0	0	1	1	**2**
12	Petroleum Engineering (Major: Applied Petroleum Geoscience)	24	2	0	0	0	0	0	1	0	0	0	3	0	**3**
13	IDD in Computer Science & Engineering and Artificial Intelligent	47	3	9	7	1	12	1	5	0	1	1	28	12	**40**
14	Mechanical Engineering	36	1	2	2	0	3	0	1	0	0	0	7	2	**9**
15	Management Studies	50	11	4	3	1	6	9	2	1	0	0	22	15	**37**
16	PhD (All Branches)	35	12	8	5	1	5	3	1	0	0	0	23	12	**35**
	Total	**791**	**108**	**62**	**86**	**20**	**167**	**32**	**75**	**19**	**11**	**3**	**446**	**137**	**583**

The students admitted during the year included the following:

Unreserved	**170**
OBC	**199**
EWS	**106**
SC	**94**
ST	**14**

Enrolment of Students/Scholars

The total numbers of students on roll in various programmes of the Institute in the academic year 2024-2025 are provided in Table

Students on roll

RGIPT, Jais, Amethi

Programme & Seats Wise Data (Enrolled in 2024-25)												
Sl. No.	Programmes	B. Tech.		MBA		M. Tech		PhD		Sub Total		Grand Total
		M	F	M	F	M	F	M	F	M	F	
1	Chemical Engineering	142	48									190
2	Computer Science & Engineering	218	27									245
3	Electronics Engineering	125	32									157
4	Electrical Engineering (Major: E Vehicle Technology)	84	17									101
5	Information Technology	155	26									181
6	Mathematics and Computing	151	34									185
7	Petroleum Engineering	153	37									190
8	Chemical Engineering (Major: Renewable Energy Engineering)	29	7									36
9	Computer Science & Design Engineering	93	31									124
10	Chemical Engineering (Major: Petrochemicals & Polymers Engg.)	28	7									35
11	Geo-Science and Engineering											0
12	Petroleum Engineering (Major: Applied Petroleum Geoscience)											0
13	IDD in Computer Science & Engineering and Artificial Intelligent	104	36									140
14	Mechanical Engineering	7	2									9
15	Management Studies			39	31							70
16	PhD (All Branches)							157	51			208
Total		**1289**	**304**	**39**	**31**			**157**	**51**			**1871**

Category/Gender-wise students on roll

RGIPT, Jais, Amethi

Sl. No.	Course Wise	Unreserved		EWS		OBC-NCL		PWD		SC		ST		Sub Total		Grand Total
		M	F	M	F	M	F			M	F	M	F	M	F	
1	Chemical Engineering	31	15	22	10	55	17	0	0	28	6	6	0	142	48	190
2	Computer Science & Engineering	55	18	53	5	70	2	0	0	34	1	6	1	218	27	245
3	Electronics Engineering	32	13	27	2	48	7	0	0	17	10	1	0	125	32	157
4	Electrical Engineering (Major: E Vehicle Technology)	24	10	18	0	19	2	0	1	21	2	2	2	84	17	101
5	Information Technology	38	11	33	4	57	6	0	0	27	4	0	1	155	26	181
6	Mathematics and Computing	41	14	37	6	54	10	0	0	17	4	2	0	151	34	185
7	Petroleum Engineering	24	13	40	7	50	11	0	0	32	4	7	2	153	37	190
8	Chemical Engineering (Major: Renewable Energy Engineering)	10	4	2	2	9	0	0	0	8	1	0	0	29	7	36
9	Computer Science & Design Engineering	25	15	20	5	35	6	0	0	12	5	1	0	93	31	124
10	Chemical Engineering (Major: Petrochemicals & Polymers Engg.)	10	1	5	2	9	2	0	0	4	2	0	0	28	7	35
11	Geo-Science and Engineering	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	Petroleum Engineering (Major: Applied Petroleum Geoscience)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	IDD in Computer Science & Engineering and Artificial Intelligent	27	17	19	5	38	10	0	0	19	4	1	0	104	36	140
14	Mechanical Engineering	1	2	2	0	3	0	0	0	1	0	0	0	7	2	9
15	Management Studies	20	17	5	2	8	10	0	0	6	2	0	0	39	31	70
16	PhD (All Branches)	66	25	26	9	41	12			24	5	0	0	157	51	208
	Total	404	175	309	59	496	95	0	1	250	50	26	6	1485	386	1871

Note: *If PhD students admitted in other programmes then kindly add the same respectively in the list.*

The students admitted during the year included the following:

Unreserved	**579**
OBC	**591**
EWS	**368**
PWD	**1**
SC	**300**
ST	**32**
Foreign Students (included in Unreserved)	**3**
Foreign Students (included in Scheduled Caste)	**1**

The branch/discipline- wise and year-wise details of students enrolled in the B.Tech./M.Tech. /MBA/PhD are provided here:

B. Tech. Students on roll

Sl. No.	Branch	2024	2023	2022	2021	Total
1	Chemical Engineering	59	67	53	11	190
2	Computer Science & Engineering	62	64	64	55	245
3	Electronics Engineering	47	46	45	19	157
4	Electrical Engineering (Major: E Vehicle Technology)	37	31	33	0	101
5	Information Technology	51	47	54	29	181
6	Mathematics and Computing	60	61	43	21	185
7	Petroleum Engineering	58	57	44	31	190
8	Chemical Engineering (Major: Renewable Energy Engineering)	18	10	8	0	36
9	Computer Science & Design Engineering	51	41	32	0	124
10	Chemical Engineering (Major: Petrochemicals & Polymers Engg.)	22	13	0	0	35
11	Geo-Science and Engineering	0	0	0	0	0
12	Petroleum Engineering (Major: Applied Petroleum Geoscience)	0	0	0	0	0
13	IDD in Computer Science & Engineering and Artificial Intelligent	40	41	34	25	140
14	Mechanical Engineering	9				9
Total		**514**	**478**	**410**	**191**	**1593**

M. Tech. Students on roll

Sl. No.	Branch	2024		2023		Sub Total		Grand Total
		Male	Female	Male	Female	Male	Female	
1	M.Tech. in Petroleum Engineering	---	---	---	---	---	---	0
2	M.Tech. in Chemical Engineering	---	---	---	---	---	---	0
Total		0	0	0	0	0	0	0

MBA Students on roll

Sl. No.	Branch	2024	2023	Total
1	Master of Business Administration	37	33	70
Total		37	33	70

PhD. Students on roll

Sl. No.	Department/Centre	2024	2023	2022	2021	2020	2019	2018	2017	2016	Total
1	Petroleum Engineering & Geoengineering	8	8	3	11	5	1	0	0	0	36
2	Chemical Engineering & Biochemical Engineering	3	7	7	6	8	2	0	0	0	33
3	Computer Science & Engineering	3	3	1	4	0	0	0	0	0	11
5	Mathematical Science	2	1	1	6	3	2	0	0	0	15
6	Management Studies	10	14	4	1	5	9	0	0	4	47
7	Science & Humanities	8	7	7	12	7	2	2	0	0	45
8	Electrical & Electronics Engineering	1	5	5	7	1	1	1	0	0	21
Total		35	45	28	47	29	17	3	0	4	208

Number of students awarded scholarship Academic Year 2024-25

Sl. No.	Scholarship Name	UR	EWS	OBC-NCL	Minority	SC	ST	Total Scholarship Awarded
1	Uttar Pradesh Scholarship	58	27	54	5	21	---	165
2	Central Sector Scholarship of Top-Class Education for SC Students	---	---	---	---	22	---	22
3	National Fellowship and Scholarship for Higher Education of ST Students	---	---	---	---	---	20	20
4	Post Matric Scholarship to OBC – Assam	---	---	17	---	---	---	17
5	Post Matric Scholarship to SC – Assam	---	---	---	---	20	---	20
6	Financial Support to the Students of Ner for Higher Professional Courses (Nec Merit Scholarship)	---	---	1	---	---	---	1
7	Central Sector Scheme of Scholarship for College & University	1	---	---	---	---	---	1
8	Umbrella Scheme for Education of St Childern - Post Matric Scholarship (PMS) For St Students-Meghalaya	---	---	---	---	---	1	1
9	Umbrella Scheme for Education of St Childern - Post Matric Scholarship (PMS) For St Students-Tripura	---	---	---	---	---	1	1
10	PM Yasasvi Central Sector Scheme Of Top Class Education In College For OBC, EBC And Dnt Students	---	6	52	---	---	---	58

11	Mukhya Mantri Medhavi Vidyarthi Yojna (MMVY) Scholarship	10		7	---	---	---	17
12	Bihar Post Matric Scholarship	---	---	---	---	---	---	0
13	Engineering India Ltd.	---	---	---	---	5	---	5
14	RGIPT Merit-cum-Means Scholarship	57	30	33	---	---	---	120
15	Swami Dayanand Education Foundation Scholarship	---	---	1	---	---	---	1
16	Other State Scholarship (Jharkhand)	---	---	1	---	---	---	1
Total		**126**	**63**	**166**	**5**	**68**	**22**	**450**

Award of Medals & Prizes to students

Convocation Prizes

Medals & Prizes awarded to students at the 8th Convocation (M. Tech., B. Tech. and Diploma)

For students graduated in 2024

B. Tech.

- **UTKARSH SHUKLA**
  Awarded **President's Gold Medal** for academic excellence amongst the graduates of all B. Tech. programmes in 2024.
- **AASTHA SHAYLA**
  Awarded **Director's Gold Medal** for outstanding all-round performance amongst the graduates of all B. Tech. programmes in 2024.
- **ANSHU PANDEY**
  Awarded **RGIPT Institute Gold Medal** for standing first in B. Tech. in Chemical Engineering Examination 2024.
- **DIVYANSHI SINGH**
  Awarded **RGIPT Institute Gold Medal** for standing first in B. Tech. in Computer Science & Engineering Examination 2024.
- **SUBHRADIP CHAKRABORTY**
  Awarded **RGIPT Institute Gold Medal** for standing first in B. Tech. in Electronics Engineering Examination 2024.
- **UTKARSH SHUKLA**
  Awarded **RGIPT Institute Gold Medal** for standing first in B. Tech. in Petroleum Engineering
- **DEEPAK KUMAR PANDEY**
  Awarded **RGIPT Institute Gold Medal** for standing first in Master of Business Administration

Diploma

- **ARKO SARKAR**
  Awarded **President's Gold Medal** for academic excellence amongst of all Diploma programmes in 2024
- **IPSHITA CHETIA**
  She is awarded **Director's Gold Medal** for academic excellence amongst of all Diploma programmes in 2024

- **AKASH DEEP HAZARIKA**
  Awarded **RGIPT Institute Gold Medal** for standing first in Diploma in Chemical Engineering examination 2024
- **Harish Gogoi**
  Awarded **RGIPT Institute Gold Medal** for standing first in Diploma in Electronics and Instrumentation Engineering examination 2024
- **PRATHA PRATIM BORBORUAH**
  Awarded **RGIPT Institute Gold Medal** for standing first in Diploma in Fire and Safety Engineering examination 2024
- **BHARGAV GOGOI**
  Awarded **RGIPT Institute Gold Medal** for standing first in Diploma in Mechanical Engineering examination 2024
- **ARKO SARKAR**
  Awarded **RGIPT Institute Gold Medal** for standing first in Diploma in Petroleum Engineering examination 2024

Degree Recipients

- Department of Sciences & Humanities: 05 (PhD)
- Department of Mathematical Sciences: 01 (PhD)
- Department of Management Studies: 07 (PhD)
- Department of Computer Science & Engineering: 04 (PhD)
- Department of Chemical & Biochemical Engineering: 01 (PhD)
- Department of Petroleum Engineering & Geoengineering: 01 (PhD)
- Department of Chemical & Biochemical Engineering: 16 (B. Tech.)
- Department of Computer Science & Engineering: 67 (B. Tech.)
- Department of Electronic Engineering: 31 (B. Tech.)
- Department of Petroleum Engineering & Geoengineering: 06 (M. Tech.)
- Department of Petroleum Engineering & Geoengineering: 43 (B. Tech.)
- Department of Management Studies: 37 (MBA)
- Energy Institute Bengaluru: 07 (M. Tech.)
- Assam Energy Institute, Sivasagar: 172 (Diploma)

Chapter-14
Library

Introduction

As in any world class academic institution, library at Rajiv Gandhi Institute of Petroleum Technology is the core academic service centre. It is being developed as world class academic library & information centre in the field of petroleum science & technology. The central library of RGIPT is presently functioning in RG plaza of RGIPT. Its building is centralized air- conditioned, equipped with all such facility and service essential for its reader. It has a good reading environment & sufficient space for shelving of books and other reading materials. The bibliography details of its printed collection of books well as CDs &DVD are Computerized. The RGIPT library is having a strong special collection of books, standard & peer reviewed Journals- printed as well online related to the chemical, computer, management, electronics, mathematics & petroleum engineering etc. It has Internet facility to access the online & offline electronics resources available in the library.

Library Hours

During Exam time: 09:00 AM to 02:00 AM (Five days before the mid/end semester Examination)

Periodical Section

Printed Magazines and Journals	
1	American Scientist
2	Chemical Engineering
3	Frontline Magazine
4	Oil and Gas Journals
5	Geological Society of India
6	P C Quest
7	Mathematics Today
8	Sociological Bulletin
9	Outlook Magazine
10	Dew
11	Digit
12	Pratiyogita Darpan Magazine
13	Business India
14	Business Today
15	Reader's D
16	India Today
17	Harvard Business Review
18	The Economist
19	Frontline Magazine
20	The Week Magazine
21	B W Business World(+)

Database	
1	Sci-Finder (Chemical Abstract)
2	MathSciNet

Standards (API,OISD,NFPAA)
350

Journal	
1	OnePetro

E-Journals

One Nation One Subscription (ONOS) has been implemented to provide access to 30 global publisher journals via the RGIPT on-campus network.

1. AAAS – Science	11. ASME Journals	21. Institute of Physics (IOP) Publishing
2. ACM Digital Library	12. Bentham Science	22. Lippincott Williams & Wilkins (Wolters Kluwer)
3. American Chemical Society	13. BMJ Journals	23. Oxford University Press
4. American Institute of Aeronautics and Astronautics (AIAA)	14. Cambridge University Press	24. Project MUSE
5. American Institute of Physics (AIP)	15. Cold Spring Harbor Laboratory Press	25. SAGE Publishing
6. American Mathematical Society	16. Elsevier (ScienceDirect)	26. SPIE Digital Library
7. American Physical Society (APS)	17. Emerald Publishing	27. Springer Nature
8. American Society for Microbiology (ASM)	18. ICE Publishing	28. Taylor & Francis
9. Annual Reviews	19. IEEE Xplore Digital Library	29. Thieme Medical Publishers
10. ASCE Journals	20. IndianJournals.com	30. Wiley Online Library

Newspapers: Dainik Jagran (Hindi), Amar Ujala (Hindi), Hindustan Times (English), The Times of India (English), The Hindu (English).

Research Support Tools

1. Turnitin: A plagiarism software
2. QuillBot : paraphrasing

Computer-Aided Reference Service Unit: online public access catalog (OPAC)

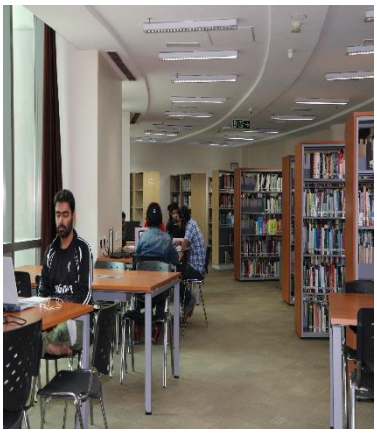
- **Total CD/DVD:** 7419
- **Tool for Books Digitization:** Bookeye 4
- **Library Automation Software**: Soul Software 3.0
- **Initiative for Digital Library**: INFLIBNET Shodhganga Ph.D. thesis, Membership E-shodhsindu (eSS), National Digital Library of India (NDLI).
- **Faculty Research Profile**: Indian Research Information Network System (IRINS)

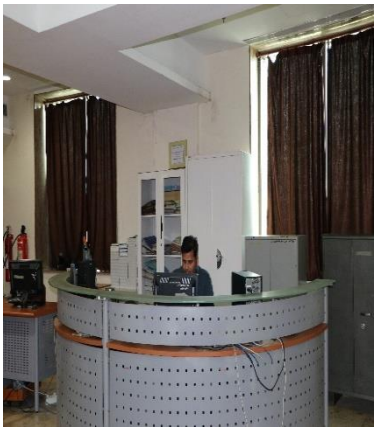
- **Security**: RFID, CCTV
- **Total Numbers of Books**: 17608
- **E-Books:** 11 Titles of McGraw Hill E-Books

Library Interface QR code & Library Webpage link

Members Category	Issue Privilege	Duration
Faculty	20 Books	One year
Staff	04 Books	Two Month
PhD	04 Books	One Month
PG(M.Tech , MBA)	02 Books	One Month
UG	02 Books	20 Days
Book Bank (FOR UG,PG)	02 Books	One Semester





Chapter-15
Student's Activities (DOSA)

Cultural Council Events

Independence Day on 15th August 2024

The Cultural Council proudly organized the 78th Independence Day celebrations with great patriotic fervor. The event included the flag hoisting ceremony, the singing of the national anthem, and a series of cultural performances that beautifully showcased the spirit of unity and nationalism.





Anmashtami **Celebration (Dahi Handi Competition, Open Mic, Pooja, Garba Night on 25th & 26th August 2024)-**

Janmashtami was celebrated with great enthusiasm over two days, featuring a spirited Dahi Handi competition, a devotional Pooja ceremony, and an Open Mic session showcasing devotional and cultural performances. The festivities concluded with a vibrant Garba Night, fostering wide student participation and cultural immersion.

Onam Celebration 0n 5th September 2024

Onam was celebrated with traditional fervor, highlighting Kerala's rich cultural heritage. The activities included creating floral Rangoli (Pookalam), enjoying the traditional Onam Sadhya feast, and engaging folk performances. The event served

Antaragni Participation (IIT Kanpur's Annual Cultural Fest) from 17th to 20th October 2024.

Students from RGIPT proudly represented the institute at Antaragni, the annual cultural festival of IIT Kanpur. The delegation participated in a variety of competitions including dramatics, music, dance, fashion, and fine arts, fostering inter-college interaction and showcasing RGIPT's talent on a national platform.

Urjotsav Cultural Night on 9th November 2024

As part of *Urjotsav*, RGIPT's annual technical fest, a special Cultural Night was organized featuring vibrant performances in music, dance, and theatre. The event provided a platform for students to showcase their creative and artistic talents, significantly contributing to the lively and inclusive campus atmosphere.





New Year's Eve Bonfire on 31st December 2024

A serene and joyful bonfire night was organized on New Year's Eve to bid farewell to 2024. The event featured acoustic music performances, interactive games, and light refreshments, creating a warm and celebratory atmosphere for students residing on campus during the winter break.

Makar Sankranti Celebrations (Kite Flying, Lohri, Pongal) from 12th to 14th January 2025

Makar Sankranti was celebrated over three days with a series of culturally rich events. Festivities included a Kite Flying competition, Lohri celebrations with a traditional bonfire and folk songs, and a Pongal feast. These events highlighted the diverse harvest traditions from different regions of India, fostering unity in diversity and enhancing cultural awareness among students.

Republic Day on 26th January 2025

Republic Day was commemorated with a ceremonial flag hoisting, a parade, and cultural performances by students. The event celebrated the values enshrined in the Indian Constitution and honored the spirit of democratic India, instilling pride and patriotism among the campus community.



Pratidhwani – Fresher's Party on 26th January 2025

Pratidhwani welcomed the incoming batch of students with a vibrant and energetic fresher's party. The event featured engaging performances, a fashion walk, fun games, and interactive sessions, all designed to ease the transition into college life and foster a strong sense of community among students.

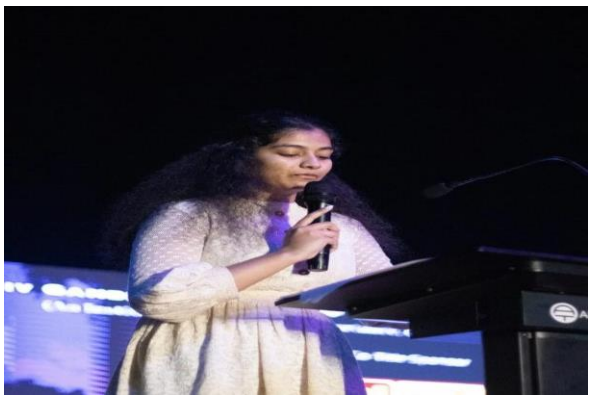


Saraswati Pooja & Cultural Events on 2nd February 2025

On the auspicious occasion of Vasant Panchami, the Cultural Council organized Saraswati Pooja, followed by a series of cultural events. Students actively participated in devotional singing, classical performances, and traditional rituals, invoking the blessings of Goddess Saraswati for academic excellence and creative inspiration.

Energia – Cultural Night on 23rd February 2025

Energia was one of the major cultural nights of the semester, featuring an exciting lineup of student-led performances in dance, music, stand-up comedy, and drama. The event served as a vibrant celebration of campus talent and cultural dynamism, fostering creativity and student engagement across disciplines.





Sports Council Events

Indoors League on 24th–25th August 2024

On 24th August 2024, the campus was abuzz with energy and competitive spirit as the Indoors League commenced, featuring the thrilling disciplines of Table Tennis, Carrom, and Chess. Over

100 participants took part in the event, eager to showcase their skills and strategic thinking. The competitions were held in two sessions: from 10:00 AM to 1:00 PM, and again from 3:00 PM to 6:00 PM. Events included:

- Table Tennis (Singles & Doubles)
- Carrom (Boys & Girls)
- Chess (Boys)

The Indoors League served as a platform for students to engage in friendly yet competitive gameplay, enhancing both mental agility and sportsmanship.





International Yoga Day on 21st June 2024

The institute celebrated International Yoga Day with great enthusiasm and collective spirit. The event was conducted indoors hall to provide a calm, comfortable, and focused environment for participants. A total of 100 individuals participated in the session, including 30 females and 70 males, reflecting strong and inclusive involvement from across the campus community. The session promoted physical wellness, mental clarity, and the importance of integrating yoga into daily life.



National Sports Day on 29th August 2024

On the occasion of **National Sports Day**, a series of engaging events were organized to foster a sense of community and promote physical fitness among the children of the teaching and non-teaching staff, as well as the students of the institute.

Two fun and inclusive events were held in the residential area for children:

1. **RaceEvent**
   The celebrations began with a spirited race event for the children residing in the housing area. A total of **50 young participants** took part, displaying tremendous enthusiasm, energy, and sportsmanship. The race created an energetic and competitive atmosphere, setting the tone for the evening.
2. **Musical Chair Event**
   Following the race, a **musical chair** competition was organized. Children eagerly participated, trying to secure a seat each time the music stopped. The event was filled with laughter, joy, and excitement, while also promoting quick thinking and agility. It turned out to be a heartwarming experience for both the participants and the audience.

These events not only brought smiles to the faces of young participants but also strengthened the community spirit within the campus.

Events for the Hostel Area

A series of strength and endurance-based competitions were organized in the hostel area, aimed at encouraging fitness and healthy competition among students. The events saw enthusiastic participation and high energy throughout.

Boys' Push-up Competition

The festivities began with a high-energy **push-up competition** for boys. Over **50 participants** challenged one another to perform the maximum number of push-ups within a set time frame. The competition was intense, with many showcasing impressive upper body strength and determination.

Girls' Plank Challenge

Next, the **plank challenge** tested the **core strength and endurance** of 10+ female participants. Each contestant held a plank position for as long as possible. This event proved to be as much a test of mental resilience as it was of physical fitness, with participants pushing their limits.

Girls' Powerlifting Competition

The final event of the day was the **powerlifting competition**, which drew over **10 strong female participants** from the hostel. Competing across different weight categories, participants demonstrated remarkable strength, proper technique, and fierce determination. The audience was thoroughly engaged, cheering for each impressive lift, making the event one of the most thrilling of the day.

These hostel events highlighted the importance of strength training and fitness, especially in a campus setting, while also celebrating inclusivity and student engagement.

Basketball and Volleyball League on 7th–8th September 2024

- Total Participants: 148
- Basketball: 43 participants
- Volleyball: 68 participants

The Basketball and Volleyball League was a dynamic and engaging outdoor sports event held to foster team spirit, physical fitness, and competitive enthusiasm among students. Organized over two days, the league provided a platform for students to showcase their athleticism, coordination, and strategic thinking.

Each match was met with high energy and sportsmanship, as students competed fiercely while demonstrating teamwork and discipline. The event saw active participation from 148 students, making it one of the largest leagues of the semester.





Futsal League on 29th August 2024

- **Total Participants:** 68 (across 9 teams)
- **Total Matches Played:** 11

The **Futsal League**, a fast-paced and exciting outdoor sports competition, was successfully conducted with enthusiastic participation and remarkable energy. Organized with the objective of promoting **skill development**, **team coordination**, and **physical fitness**, the league brought together **68 players** across **9 competitive teams**.

A total of **11 matches** were played, each showcasing high levels of passion, strategy, and teamwork. Participants demonstrated not only technical skill but also strong sportsmanship

Kridotsava 2025 from 26th to 27th October 2025

The annual **Kridotsava 2025**, an intra-block sports competition, was organized with great enthusiasm and witnessed spirited participation from over **700 students** representing various hostels and blocks. This inter-hostel sports festival aimed to foster teamwork, athletic excellence, and friendly rivalry among students, promoting physical fitness and camaraderie throughout the campus community.

The event featured a diverse range of indoor and outdoor sports, summarized as follows:

- **Track & Field Events:** High Jump, Long Jump, Relay Race (Girls), Relay Race (Boys), 100m Race (Girls), 200m Race (Boys)
- **Indoor Games:** Badminton (Girls Singles & Doubles), Carrom (Girls & Boys), Chess (Girls & Boys), Table Tennis (Girls & Boys Singles & Doubles)

- **Strength Events:** Shot Put (Girls & Boys), Powerlifting (Girls – Open Category), Powerlifting (Boys – Under 60 kg, Under 70 kg, Under 80 kg)
- **Team Sports:** Kabaddi (Boys), Kho-Kho (Boys), Basketball (Girls & Boys), Volleyball (Girls & Boys), Football (Boys)

Kridotsava 2025 was a vibrant celebration of athleticism, skill, and hostel pride. Every participant contributed to the electric atmosphere, making the event a true testament to the spirit of unity through sports.

Mini Marathon on 8th February 2025

The Sports Council successfully organized a Mini Marathon on 8th February 2025 at 7:00 AM as a pre-event for Energia'25. The event saw enthusiastic participation from students across various departments, fostering a spirit of unity, health, and sportsmanship.

The marathon route consisted of two laps within the institute premises, starting from **Institute Gate 1** and concluding at the **Track and Field area via Gate 2**. The entire event was meticulously coordinated to ensure participant safety and support along the route.

All participants were provided refreshments at the finish line, creating a positive and energetic atmosphere. This marathon served as an excellent lead-up to the Energia fest and highlighted the community's dedication to fitness and camaraderie.

Box Cricket League from 19th–27th October 2024

- Total Teams: 18
- Total Participants: 120

The Institute Box Cricket League 2024 was successfully conducted from 19th to 27th October at the Lawn Tennis Court. Open to all undergraduate and postgraduate students, the league witnessed enthusiastic participation, with 18 teams and 120 players competing over the course of the tournament.
A total of 49 thrilling matches were played, showcasing exceptional teamwork, strategy, and sportsmanship. After intense competition, Team Bajrang emerged as the champions, while Team Akatsuki secured the runners-up position.

Pre-Energia Cricket League on 8th–9th & 16th–17th February 2025

- **Total Teams:** 18
- **Total Participants:** 200+

The **Pre-Energia Cricket League 2025** was held on 8th–9th and 16th–17th February at the Cricket Ground, open to all students. The tournament featured enthusiastic participation with **18 teams** and over **200 players** competing in **16 competitive matches** characterized by energy, teamwork, and sportsmanship.

After an intense series of matches, **Team Bajrang** emerged as the champions, while **Team Toxic** secured the runners-up position. The league successfully united students, building excitement and camaraderie in the lead-up to the main Energia event.

The tournament concluded with a celebratory prize distribution, recognizing the efforts and achievements of the participants.

Energia 2025 from 22nd–23rd February 2025

Energia 2025, the institute's flagship annual sports festival, was successfully held on 22nd and 23rd February, bringing together a vibrant mix of competition, energy, and celebration. The event saw enthusiastic participation from over 10 colleges and 350+ external participants, with a total of 800+ participants overall.

A wide array of sporting events was conducted, including basketball, volleyball, badminton, chess, carrom, powerlifting, shot put, long jump, athletics, lawn tennis, and table tennis. Each event was marked by intense competition and enthusiastic participation, with students giving their best efforts while being cheered on by supportive crowds and spirited teammates.

Energia 2025 was more than just a sports meet—it was a celebration of youth, fitness, and unity. The festival concluded on a high note with a lively and well-attended DJ Night, offering participants an opportunity to unwind and celebrate their achievements.

Overall, Energia 2025 was a grand success, fostering intercollegiate connections and leaving behind unforgettable memories of competition, camaraderie, and celebration

Tavran – KNIT Sultanpur from 25th–27th February 2025

The students of Rajiv Gandhi Institute of Petroleum Technology (RGIPT) showcased stellar performances at TAVARAN 2025, the annual sports fest of Kamla Nehru Institute of Technology (KNIT), Sultanpur. Demonstrating skill, sportsmanship, and unmatched team spirit, RGIPT athletes dominated across multiple sporting events, bringing home an impressive collection of victories.

Achievements at a Glance:

- Badminton: Winners
- Basketball: Winners
- Table Tennis: Winners
- Football: Winners
- Powerlifting: Runners-Up

These outstanding results reflect the dedication, discipline, and relentless efforts of RGIPT's sports teams. From strategic gameplay in football and basketball to swift reflexes in badminton and table tennis, our athletes left an indelible mark at the fest.

The powerlifting team also delivered a commendable performance, securing the runners-up position.

Social Services Council Events

Primary Teaching Initiative

The volunteers conducted weekend sessions teaching basic math, language, and literacy to government primary school students. The interactive lessons and play sessions helped improve students' academic skills and confidence. Around 10-15 volunteers participated weekly, gaining valuable experience in community service. The initiative fostered a positive learning environment and strengthened the bond between RGIPT and the local community.

Blood Donation Camp on 31st August 2024

The blood donation camp was organized in collaboration with AIIMS Raebareli and actively involved both institute faculty and students. The event saw enthusiastic participation, resulting in the collection of around 60 units of blood. The camp aimed to create a positive social impact by raising awareness about the vital importance of blood donation. Following the motto, "Every drop counts, and together we make a difference," the initiative successfully encouraged community members to contribute towards saving lives. The collected blood will provide critical support to patients in need, making a tangible difference in the healthcare system. The event also strengthened the spirit of collective responsibility and service among participants, highlighting how united efforts can bring about meaningful change. Overall, the blood donation camp was a resounding success and a proud moment for the institute.



Ganesh Chaturthi from 7th September to 17th September 2024

All the students came together to celebrate the sacred 10-day-long Ganesh Chaturthi pooja with great devotion and enthusiasm. The festivities began with the sthapana (installation) of Lord Ganesha, followed by daily morning and evening aartis and poojas. Bhajan Sandhyas were organized, creating a spiritual and joyful atmosphere on campus. The celebration culminated in the Ganesh visarjan, marked by joyous festivities and emotional farewells. This extended period of worship brought students closer, fostering a strong sense of unity and community. The event was a heartfelt tribute to Lord Ganesha, the deity of wisdom, intelligence, and new beginnings, inspiring reflection and togetherness among all participants.

Science Exhibition on 11th November 2024

Students from nearby colleges were invited to showcase their creativity and innovation at the Science Exhibition. Approximately 200 students from classes 9 to 12, representing six different schools, participated enthusiastically. They presented various innovative projects and competed across multiple categories. Prizes were awarded to outstanding performers as well as to the best-performing school overall. The event fostered leadership, teamwork, and a spirit of healthy

competition among the participants. Additionally, the students enjoyed lab visits and a campus tour, which helped broaden their academic perspectives. The exhibition successfully inspired young minds and strengthened community ties between educational institutions.






Saraswati Pooja on 2nd February 2025

Faculty, students, and devotees gathered to worship Maa Saraswati, the goddess of knowledge and wisdom. The pooja began in the morning with the sthapana (installation) of the Saraswati idol, followed by the distribution of prasad to all participants. An evening aarti was also organized, accompanied by prasad distribution to the devotees. This sacred ceremony encouraged students to seek blessings for their academic and personal growth, fostering faith and devotion. The next day, the idol was respectfully bid farewell, symbolizing the community's deep reverence and dedication. The event strengthened spiritual connection and inspired hope among all participants.





Arpan Orientation on 13th February 2025

All freshers were invited to attend the Arpan Orientation, where the significance of the Social Service Council was explained. Members working with Arpan were introduced, and the history, purpose, and functioning of the initiative were detailed. The session helped new students understand the collaborative efforts of seniors and undergraduates dedicated to uplifting nearby villages. It emphasized the collective responsibility of the institute community towards social betterment. The orientation inspired freshers to actively participate in Arpan's mission of raising awareness and promoting education in surrounding areas. Overall, it fostered a sense of commitment and motivation towards this noble cause.

Swachhata Pakhwada Report – March 2025

The Swachhata Pakhwada campaign was successfully conducted with active participation from RGIPT students, faculty, staff, Social Service Council "Arpan," Jais Nagar Palika, local residents, and students from nearby schools. Key activities included campus and village cleaning drives,

sanitary pad and cloth bag distribution, awareness workshops on hygiene and waste segregation, and community engagement sessions. Creative contests like essay writing, drawing, and social media reels encouraged youth participation. Plantation drives and dustbin distributions further promoted environmental responsibility. The campaign significantly improved public hygiene, raised awareness about menstrual health, reduced plastic use, and fostered a strong sense of community ownership towards cleanliness and sustainability. The event culminated with a felicitation ceremony recognizing all contributors.

Activities Conducted (Detailed):

- Pledge Ceremony – Led by Director Prof. Alok K. Singh, reaffirming commitment to cleanliness.
- Campus Cleaning Drive – Thorough cleaning of office entrances, indoor areas, and sports facilities.
- Outside Campus Cleaning – Roads cleaned, especially near food vendors; litter control initiated.
- Sanitary Pad Distribution Drive – Conducted in Raniganj, Purafateh, Mawai Alampur, and Purachauhan villages.
- Cloth Bag Distribution Campaign – Promoted eco-friendly bags in markets and residential areas.
- Cleaning Drive in Public Areas of Jais Tehsil – Streets, temples, and block offices cleaned.
- Village Awareness Workshops – Sessions on waste segregation, hygiene, and sustainability practices.
- Poster and Banner Placement – Awareness materials placed in Raniganj, Mawai, Alampur, and surrounding areas.
- Dustbin Distribution Drive – Dustbins installed in public areas to reduce littering and encourage waste segregation.
- Essay Writing Competition – Students wrote on themes of hygiene, cleanliness, and sustainability.
- Social Media Reels Competition – Participants shared videos showcasing personal cleaning efforts.
- "Clean Your Place" Contest – Students cleaned their hostel rooms; judged on cleanliness and orderliness.
- Drawing Competitions – Held at Moonland, Adarsh Public, and Eklavya Public Schools, including sessions for playgroup students introducing hygiene concepts through art.
- Seminar by Dignitaries – Talks by representatives from Jais Nagar Palika, environmental experts, and university leaders.
- Plantation Drive – Trees planted by volunteers and community members to promote environmental sustainability.
- Felicitation Ceremony – Recognized students, staff, and officials for their active contributions.
- Public Demonstration of Waste Sorting – Volunteers demonstrated proper waste segregation techniques.
- Community Engagement Sessions – Local vendors and residents guided on responsible waste disposal practices.

- Follow-Up Commitments – Community pledged to continue cleanliness efforts and regular monitoring.



Rama Navami on 6th April 2025

The celebration of Rama Navami on 6th April 2025 was marked by special aarti and pooja ceremonies, followed by the distribution of prasad to all devotees. The event also featured a soulful Bhajan Sandhya, enriching the spiritual atmosphere. This celebration emphasized the importance of religious rituals and fostered a strong sense of community and unity among the students. Devotees gathered to honor Lord Rama, symbolizing love and wisdom, which deepened their connection to cultural traditions. The event successfully strengthened bonds within the campus, creating a warm and inclusive environment for all participants.

Hanuman Jayanti on 12th April 2025

Hanuman Jayanti was celebrated with great devotion on 12th April 2025. The event included a special aarti and pooja, followed by the distribution of prasad to all devotees. After the pooja, a Sundarkand Path was performed, enriching the spiritual experience, accompanied by a Bhajan Sandhya. This celebration emphasized the importance of religious rituals, fostering a strong sense of unity and community among students. The event deepened their appreciation of cultural traditions and strengthened communal bonds, creating a harmonious and inclusive atmosphere on campus.



Science and Technology Council (S&T Council) Events

ABOUT THE COUNCIL

The **Science and Technology Council** of RGIPT serves as a dynamic platform for innovation, critical thinking, and technology-driven initiatives. The council aims to foster a spirit of curiosity and experimentation among students by building a collaborative environment that supports problem-solving, technical learning, and entrepreneurial growth.

Our **mission** is to empower students to explore and excel in scientific and technological domains, and our **vision** is to cultivate innovative thinking to address real-world challenges. The council actively promotes exposure through seminars, webinars, conferences, and industry interactions while also offering hands-on experience via workshops, technical sessions, and interactive activities.

In addition to technical knowledge, we focus on developing leadership, teamwork, communication, and time management skills—enabling students to become well-rounded professionals.

The Council operates through **five major clubs**, each focusing on a specific domain:

- **Tinkering Club**
- **Kode Club**
- **E-Cell (Entrepreneurship Cell)**
- **Astronomy Club**
- **Product and Design Club**

Together, these clubs provide a comprehensive ecosystem for innovation, learning, and growth at RGIPT

TINKERING CLUB

The Tinkering Club, an integral part of the Science and Technology Council at RGIPT, stands at the forefront of student innovation and hands-on learning. It provides a vibrant platform for students to transform their ideas into reality through practical exploration and creative problem-solving.

From building cutting-edge robots and remote-controlled planes to conducting immersive workshops, the club cultivates curiosity, technical skills, and a spirit of experimentation. It goes beyond traditional learning, encouraging students to innovate, take risks, and engage with real-world challenges.

The Tinkering Club is a launchpad for aspiring engineers, designers, and technologists, offering a collaborative space where creativity and technical excellence converge. Through teamwork and mentorship, students gain valuable experience in design thinking, prototyping, and project execution.

KODE CLUB

Kode Club is a vibrant community for tech enthusiasts, where innovation meets opportunity. Specializing in web and app development, AI/ML, blockchain, and other emerging technologies, the club offers a platform for members to explore and master cutting-edge skills.

Whether you are a beginner eager to learn or an expert looking to push the boundaries, Kode Club provides the ideal environment for growth. Members collaborate on real-world projects, gain hands-on experience, and compete at national levels, honing their technical expertise and teamwork.

Guided by the motto—**Code. Create. Conquer.** —Kode Club inspires and empowers students to transform creative ideas into impactful solutions. It's not just about coding; it's about shaping the future and making a meaningful difference in the world of technology.

E-CELL

At E-Cell RGIPT, we are more than just a student group—we are a launchpad for future change-makers. Our mission is to ignite and nurture the entrepreneurial spirit among students by offering practical opportunities beyond the classroom. Whether you have a unique idea or simply have an interest in the startup ecosystem, we provide mentoring, guidance, and hands-on experience to help you grow.

From pitch competitions and startup incubation programs to interactive seminars and networking with seasoned entrepreneurs, our initiatives aim to transform raw ideas into scalable businesses. We bring together innovators, thinkers, and creators to build a collaborative community where creativity meets action.

E-Cell goes beyond business knowledge, fostering a mindset that encourages calculated risk-taking, learning from failures, and rapid adaptation. With access to a growing network of mentors, industry leaders, and alumni, we empower every student to explore their potential and make a meaningful impact. Our core belief: don't just dream—build it.

ASTRONOMY CLUB (ASPAC)

ASPAC at RGIPT is a passionate community of astronomy and space enthusiasts who simply can't stop looking up. Whether you're a curious beginner or someone well-versed in constellations and celestial mechanics, there's a place for you here. We believe that space isn't just for scientists—it's for dreamers, explorers, and anyone who's ever looked at the night sky and wondered, what's out there?

At ASPAC, we turn that wonder into experience through stargazing nights, telescope observation sessions, expert talks, astronomy quizzes, and hands-on workshops. From identifying planets and nebulae to diving into concepts like black holes and time dilation, we explore the cosmos—together.

But beyond the science, ASPAC is about community. Every gathering is a space to share stories, ask questions (no matter how wild), and connect with others who share the same cosmic curiosity.

If you've ever looked up and felt that spark of wonder, ASPAC is where that spark becomes a journey.

Join us—and let's explore the universe, one star at a time.

PRODUCT-DESIGN CLUB

We're here to spark curiosity and push boundaries—inspiring students to dive into the world of technology and science, not just through theory but real, hands-on experience.

At our core, we believe in turning ideas into impact. That's why we encourage students to think differently, innovate boldly, and take on real-world challenges with confidence. From insightful seminars and interactive webinars to national- level conferences, we open doors to the latest trends and minds in tech and science. But it's not just about learning—it's about doing. Our workshops and sessions are designed to build practical skills, fuel creativity, and help students bring their ideas to life. Along the way, members grow into better leaders, communicators, and team players—skills that matter far beyond the classroom.

Whether you're someone who loves coding, robotics, research, or just wants to explore what's out there—we've got something for you. So come be part of a space where ideas thrive, problems become possibilities, and passion turns into purpose. Let's build, solve, and grow—together.



URJOTSAV from 9th–10th November 2024

Urjotsav, the flagship national-level technical and entrepreneurial festival of Rajiv Gandhi Institute of Petroleum Technology (RGIPT), is a celebration of innovation, leadership, and collaboration. Organized by the Science and Technical Council, this prestigious fest embodies the spirit of technological excellence and intellectual curiosity.

More than just an event, Urjotsav 2024 served as an immersive experience where students engaged in hands-on activities, strategic planning, and real-world problem-solving. The fest provided an invaluable platform for budding engineers, entrepreneurs, and innovators to showcase ideas, collaborate across disciplines, and build skills essential for both personal and professional growth.

The 2024 edition embraced the theme "Cosmic Convergence"—symbolizing unity among diverse domains, much like cosmic forces shaping the universe. With this theme, participants were encouraged to explore interdisciplinary ideas, blend creativity with technology, and push the boundaries of conventional thinking.

Urjotsav continues to inspire and empower the next generation of changemakers, fostering a culture of innovation and excellence at RGIPT.

Event Overview – Urjotsav 2024

Urjotsav 2024 unfolded as a multifaceted celebration of technology, innovation, and youthful energy, packed with engaging activities and impactful sessions. Here's a snapshot of the highlights:

- **Competitions:** Core technical events like *Bridge Making*, *Robotics Challenges*, and *Competitive Coding* encouraged problem-solving, creativity, and collaboration among students.
- **Science Fair:** Conducted by *Arpan – The Social Service Council*, the fair hosted over 60 school teams (grades 9–12). Students presented innovative solutions to real-world problems. *PPS School* secured the first position, followed by *DAV* and *SJS* schools.
- **Gaming Tournament:** The day concluded with adrenaline-fueled e-sports competitions in *BGMI*, *Road to Valor*, and *Bullet Echo*, enhancing camaraderie and strategic thinking among players.
- **Guest Lectures:** Industry leaders like *Mr. Ashish Tripathi (Infosys)*, *Prof. Rajkumar Pant (IIT Bombay)*, and *Dr. Suman Jana* delivered thought-provoking talks on topics like innovation, ethical technology, and future tech landscapes.
- **Innovation & Renewable Energy Challenges:** Themed contests inspired students to propose sustainable and futuristic solutions, reflecting the *Cosmic Convergence* theme.
- **Cultural Night:** Music, dance, poetry, and visual arts added color and vibrance to the fest, showcasing the diverse cultural talent of RGIPT.
- **Valedictory Ceremony:** *IAS Suraj Patel* graced the closing ceremony, inspiring students to pursue innovation with integrity, and blend ambition with social responsibility.
- **EDM Night:**The grand finale featured an electrifying performance by *Prerak Anand*, uniting the crowd in a spectacular celebration of lights, music, and youth energy.

Urjotsav 2024 was not just an event—it was an experience that celebrated intellect, creativity, community, and the boundless potential of the next generation.

Highlights and Key Achievements – Urjotsav 2024

Urjotsav 2024 brought together leading experts and visionaries across diverse technological domains. Here are the key highlights from the lecture series and seminars:

- **Lecture on LTA Systems and Autonomous Aerial Projects** - *Prof. Rajkumar Pant* introduced students to Lighter-Than-Air (LTA) technologies like hot air balloons and aerostats, emphasizing their practical applications in disaster management and rural connectivity. His

collaborations with NIT Hamirpur and the Uttarakhand Government showcased real-world impact through interdisciplinary innovation.

- **Seminar on Augmented & Virtual Reality (AR/VR)** - *Mr. Nikhil Bhatnagar* delivered an insightful talk on the role of AR/VR in revolutionizing healthcare and education. He emphasized the need to democratize immersive technologies and inspired students to explore AR/VR as a tool for positive societal transformation.
- **Lecture on Artificial Intelligence and Emerging Technologies** - *Mr. Ashish Tripathi* discussed the ethical and sustainable application of AI in sectors like healthcare, finance, and services. His session emphasized responsible innovation and the importance of AI literacy in the modern workforce.
- **Lecture on Machine Learning Security** - *Dr. Suman Jana* highlighted growing security vulnerabilities in machine learning systems. His talk focused on developing robust, secure ML frameworks as these technologies are increasingly embedded in critical infrastructures.
- **Valedictory Address on Social Responsibility** - *IAS Suraj Patel* concluded Urjotsav 2024 with an inspiring address that encouraged students to pursue innovation with empathy. He urged the youth to align technological pursuits with compassion and public good.
- **Lecture on Hydrogen-Based Energy Solutions** - *Dr. Dadasaheb Shendage* introduced the audience to advancements in hydrogen energy, particularly the potential of steam electrolysis as a sustainable, clean fuel alternative. His talk aligned with global efforts toward green energy transitions.

These sessions not only broadened the participants' technical knowledge but also instilled a deeper sense of purpose—encouraging them to innovate for impact and build a better, sustainable future.





PARTICIPATION METRICS

Urjotsav 2024 featured a wide array of engaging and innovative technical events such as *Urja Experience*, *Wall Maze Solver*, Water Rocket , Creative Cad Challenge , Line Follower Robot , Robo Soccer , RC Plane , AI Art Battle , Hydraulic Arm , Trader's arena , Innovation Challenge , Tech Trivia Quiz , Line Maze Solver , Techno MUN , Egg drop , Bridge Making , Competitive Coding , RC boat , Code Decipher , Capital Quest , Renewable Energy Challenge , Kick Decetection , Blockseblock , BATTLE- VERSE , Galactic video challenge.

Tinkering Club – Events Conducted

Bots Exhibition at SCHEMCON on 20th September 2024

The Bots Exhibition organized during SCHEMCON 2024 served as an inspiring platform for showcasing innovation in robotics and automation. Students from RGIPT and beyond presented a variety of functional bots, demonstrating applications across multiple domains such as industrial automation, smart assistance, and mobility solutions. The event encouraged creative thinking, hands-on problem-solving, and collaboration, while highlighting the growing role of robotics in transforming real-world challenges into technological opportunities.





Bots Making Sessions for Urjotsav on 16th October 2024

In preparation for Urjotsav 2024, the Tinkering Club hosted Bot-Making Sessions to promote hands-on learning and encourage active student participation. These interactive workshops introduced participants to the basics of robotics, including circuitry, design, and programming. Students were mentored through the bot-building process, enhancing their technical skills and creativity.

Introduction to Tinkering Club on 20th February 2025

The **Tinkering Club** conducted an engaging **Introductory Session** to welcome and acquaint first-year students with the club's vision and activities. The session highlighted the club's focus on **hardware-based innovation**, **prototyping**, and **practical problem-solving**. Students were introduced to the club's hands-on learning culture and its integral role within the **Science & Technology Council**, encouraging them to actively participate in future projects and workshops.





Participation in Techkriti'25 from 27th–30th March 2025

Members of the Tinkering Club proudly represented RGIPT at Techkriti'25, the annual techno-management fest of IIT Kanpur. They showcased their engineering skills and innovative projects while competing in a range of technical events. The fest provided an excellent platform for students to collaborate, learn, and network with tech enthusiasts from across the country, enhancing their exposure to real-world problem-solving and cutting-edge technologies.





Project Idea Presentation on 5th April 2025

The Tinkering Club, in collaboration with the Science & Technology Council, organized an engaging Project Idea Discussion Session to foster innovation and interdisciplinary collaboration. Students pitched creative ideas spanning AI, robotics, sustainability, and data-driven technologies. The session emphasized research-oriented thinking, hands-on development, and peer learning. Participants received constructive feedback and mentorship, laying the groundwork for turning concepts into actionable projects. This initiative marked a step toward building a vibrant innovation ecosystem at RGIPT.





KODE CLUB – EVENTS

GSoC Session on 16th February 2025

A special session on Google Summer of Code (GSoC) was conducted by esteemed alumnus Ayush Rathore Sir. The session provided valuable insights into the GSoC application process, strategies for project selection, and effective ways to contribute to open-source organizations. It was an inspiring and informative experience, motivating attendees to engage with global open-source communities.

Code Decipher / Coding Contest (12th September 2024)

Kode Club organized a 2-hour coding contest that brought together students from the 1st, 2nd, and 3rd years. The event aimed to enhance coding skills, teamwork, and problem-solving abilities in a competitive yet collaborative atmosphere. Over 80 participants took part, forming teams across different academic years.

Code Decipher / Coding Contest (12th September 2024):

Kode Club organized a 2-hour coding contest that brought together students from the 1st, 2nd, and 3rd years. The event aimed to enhance coding skills, teamwork, and problem-solving abilities in a competitive yet collaborative atmosphere. Over 80 participants took part, forming teams across different academic years.

Workshops:

A series of impactful technical workshops were conducted to boost students' practical skills and industry exposure. Topics included Open Source, Web Development, App Development, and AI/ML. Each session offered hands-on experience, expert guidance, and interactive learning, empowering students to build a strong foundation in cutting-edge technologies.

Bhasha Bandhu Hackathon (21st February 2025):

The Microsoft Bhasha Bandhu Hackathon, organized at RGIPT by ID8NXT, successfully united bright minds to develop innovative solutions aimed at enhancing linguistic accessibility. Focusing on overcoming language barriers and promoting multilingual inclusivity, the event encouraged participants to create impactful, technology-driven projects.

The hackathon provided a comprehensive platform to showcase both technical expertise and event management skills—from logistics coordination to curating meaningful problem statements. It was inspiring to witness participants collaborate, brainstorm, and present ideas that address real-world challenges.

This event ignited enthusiasm for future initiatives, and we look forward to organizing more such hackathons that leverage technology to create meaningful social impact.

IoT and LTA Workshop (22nd–23rd March 2025)

The Hot Air Balloon Workshop, conducted by Prof. R.K. Pant from IIT Bombay, provided a unique two-day immersive experience into both traditional and advanced aspects of hot air balloon engineer-ing.

Day 1 featured a competitive challenge where participants aimed to maximize payload efficiency while ensuring the balloon reached the ceiling. Through strategic design and effective teamwork, the partici-pants showcased their engineering skills and secured second place in the competition.

Day 2 focused on the integration of IoT (Internet of Things) technology with hot air balloons, high-lighting innovative applications that enhance performance and operational capabilities. This session in-troduced participants to cutting-edge advancements, emphasizing how modern technology can revolu-tionize traditional engineering domains.

Overall, the workshop offered hands-on learning, fostering creativity, teamwork, and practical applica-tion of engineering concepts in real-world scenarios.

E-CELL EVENTS

Corporate Duel (15th February 2025):

Corporate Duel simulated real-world business scenarios where participants managed resources, com-peted across various market sectors, and employed dynamic strategies to dominate the market. Success depended on making timely, strategic decisions and adapting quickly to shifting business conditions and competitors' moves.

Entrepreneur's Escape (28th March 2025):

The Escape Room Challenge offered an intense, high-pressure simulation tasking teams with saving a struggling startup on the brink of collapse. With just 60 minutes, participants navigated a series of busi-ness-related puzzles, each representing critical aspects of running a company. The event tested their problem-solving skills and teamwork under real-world business pressures.

Math-A-Thon (6th April – 12th April 2025):

A thrilling 7-day online mental math competition filled with nonstop action, challenging puzzles, and exciting rewards, designed to sharpen participants' numerical agility and competitive spirit.

ASPAC - ASTRONOVA Newsletter Launch

The Astronomy and Space Club (ASPAC) at RGIPT recently embarked on an exciting journey with the launch of ASTRONOVA, the club's official newsletter. This edition highlighted the latest discover-ies, insights, and updates from the fascinating world of astronomy and space exploration, engaging stu-dents and space enthusiasts alike in a cosmic voyage of knowledge and creativity.

The launch event also included an open call for contributions, inviting members to submit articles, pho-tographs, and personal reflections on the universe. This initiative encouraged participants to share their unique perspectives, enriching the collective learning experience within the club. The submission dead-line was set for 20th March 2024.

Through this initiative, ASPAC successfully ignited curiosity and enthusiasm for space exploration, fostering a community united by their cosmic passion. The newsletter not only served as a platform for knowledge dissemination but also promoted personal expression, inspiring members to keep gazing at the stars and nurturing a lifelong spirit of discovery

ACHIEVEMENTS

Success at the National-Level Smart India Hackathon

Team Error404, which included members from the S&T Council, secured the winner position in the Smart India Hackathon (SIH) 2024 – Software Edition, organized by the Ministry of Education.

The team successfully addressed the problem statement "Integrate Industry- Relevant Vocational Training into Elementary and Secondary Education Curriculum" (PS ID: SIH1667), delivering a well-crafted and impactful solution at the national level.

Team Members

Khushi Kalra (Team Lead), Rishit Tiwari, Rishi Jain, Rohit Sharma, Swayanshu Rout, Shikhar

This remarkable accomplishment highlights the spirit of innovation, collaboration, and technical excel-lence demonstrated by the team.

Smart India Hackathon (SIH) 2024 -Team Mini Juris 2.0

Team Mini Juris 2.0, which included members associated with the S&T Council, secured the winner position in the Smart India Hackathon (SIH) 2024 – Software Edition, organized by the Ministry of Communication.

The team tackled the problem statement "A Digital BRSR Platform for India Post Network" (PS ID: SIH1754), delivering an innovative and scalable digital solution aligned with the needs of the postal infrastruc-ture.

Team Members:

Samminga Sainath Rao (Team Lead), Sunny Kumar, Debpratim Som, Pulkit Chatwal, Aditya Bakshi, Nandini Bhalla

Their achievement reflects strong technical abilities, problem-solving skills, and a deep commitment to impactful innovation at the national level.

S&T Council Represents RGIPT at National-Level GenAI Hackathon in IIT Bombay

Ankur Kumar, Secretary of the S&T Council, along with his team, participated in the prestigious Level SuperMind Hackathon held on January 18–19, 2025, at IIT Bombay. This 24-hour GenAI-focused hackathon, organized by Level SuperMind in collaboration with renowned educator Hitesh Choudhary, saw the selection of 500 participants from a staggering pool of 23,000+ applicants nation-wide.

The event challenged teams to build cutting-edge solutions using Generative AI, with expert mentorship and backing from industry giants like AWS. The participation of Ankur and his team not only reflects their com-mitment to frontier technologies but also demonstrates RGIPT's growing presence in the national innova-tion landscape.

Success at the KodeKurrent Hackathon by IEEE RGIPT Student Branch

Runner-Up at Kode Kurrent Hackathon – Season One!

Team Mavericks secured the 1st Runner-Up position in the Trading Bot Competition at the IEEE RGIPT Hackathon – Kode Kurrent (Season One).

They built a fully automated crypto trading bot focused on precision, adaptability, and real-time market execution. The 24-hour challenge tested their innovation, teamwork, and technical skills.

Team Mavericks:

Apurv Gupta (Team Leader – Tinkering Club, S&T Council) – 23MC3012 Kaushal Sharma – 23MC3029, Abhigyan Pandey – 23CS3070, Sumit Vats – 23PE3054

This achievement reflects their ability to deliver high-impact solutions under pressure.

AlgoUniversity Technology Fellowship India 2024

Selected for Prestigious AlgoUniversity Technology Fellowship India 2024

Aditya Narayan(Web Development Coordinator at the Science & Technology Council, RGIPT), achieved a remarkable milestone by securing a place among the top 70 students nationwide in the prestigious AlgoUniversity Technology Fellowship India 2024.

His selection not only highlights individual excellence but also reflects the Council's commitment to fostering innovation, development, and technical leadership among its members.

Exceptional Achievement in GirlScript Summer of Code 2024

Aditya Narayan (Web Dev Coordinator) and Maana Ajmera showcased exceptional talent in GirlScript Summer of Code (GSSoC) 2024, an international open-source program with over 17,000+ participants.

Aditya secured the 16th rank, and Maana achieved 39th rank, placing them both in the Top 50 contrib-utors globally. With 200+ pull requests and a combined score of 5280+ points, they earned multiple badges, including the Postman API Badge.

Their contributions to projects like Swap Reads, HelpOps-Hub, and DevLabs demonstrate strong technical skills and a deep commitment to collaborative development. Their achievement reflects RGIPT's growing presence in the global tech community and inspires peers to pursue open-source excellence.

S&T COUNCIL AT OPPORTUNITY OPEN SOURCE CONFERENCE – IIT KANPUR

We're proud to share that our S&T Council team members recently represented RGIPT at the Opportunity Open Source Conference 2024, hosted by IIT Kanpur in collaboration with the Linux Foundation, Canonical, and Open Printing.

Our team not only attended insightful sessions on open-source technologies and GenAI but also actively participated in an intense 12-hour hackathon, collaborating with developers and innovators from across the country!

Team Members:

Apurv Gupta • Aditya Narayan • Maana Ajmera • Abhipsa Nayak • Arghya Chakraborty • Abhigyan Pandey • Kaushal Sharma

This experience marks a powerful step forward in our journey of innovation, collaboration, and open-source contribution!

National Entrepreneurship Challenge Finalists at IIT Bombay

Our E-Cell team achieved a remarkable feat by securing the 35th rank among 1000+ teams in the Nation-al Entrepreneurship Challenge (NEC), setting a new benchmark for our institute. Their consistent perfor-mance, innovation, and teamwork propelled them to the finals of NEC, where they proudly stood among the top 10 teams at E-Summit 2025, IIT Bombay. This outstanding accomplishment reflects the team's unwavering dedication, entrepreneurial spirit, and commitment to excellence in a highly competitive national platform

S&T COUNCIL AT TECHKRITI-IIT KANPUR

1st-year S&T Council team members has secured an impressive 14th rank out of 100+ teams in the CTF (Cy-bersecurity) Competition at Techkriti – IIT Kanpur's Techfest!

Team Members :

1. Utkarsh Tiwari - 24MC3058
2. Taksh Agarwal - 24MC3051

Their exceptional performance reflects the growing spirit of technical excellence within our S&T Council, and we couldn't be prouder of their achievement!

COUNCIL TEAMS

Event Management Team - The Event Management Team plans, coordinates, and executes all council events, from workshops and tech fests to seminars and competitions. They handle logistics, scheduling,

permissions, and on-ground operations, ensuring smooth execution and memorable ex-periences for participants while collaborating with other teams for successful outcomes.

Designing Team - The Designing Team brings creativity to life by crafting visually appealing post-ers, banners, certificates, presentations, and digital content for all council events. They maintain the council's visual identity, ensure consistency across platforms, and collaborate with other teams to effectively communicate ideas and attract engagement through impactful design.

Video Editing Team - The Video Editing Team captures and curates event moments into engaging visual stories. They create promotional videos, event highlights, reels, and after-movies, using editing tools to enhance impact. Their work boosts the council's digital presence and helps in documenting and showcasing activities creatively across platforms.

Social Media And PR Team - The Social Media and PR Team manages the council's online presence across platforms. They craft engaging posts, handle promotions, interact with the audience, and build the council's brand. By collaborating with other teams, they ensure timely updates, wider reach, and a strong connection with the student community.

Editorial Team - The Editorial Team is responsible for creating and refining written content for the council. They draft event descriptions, reports, newsletters, and social media captions. With strong language skills and attention to detail, they ensure clarity, professionalism, and creativity in all communications, representing the council's voice effectively.

Logistics Team - The Logistics Team handles the behind-the-scenes groundwork for all events. They manage materials, venue setup, equipment, and coordination with vendors and authorities. Their efficient planning and execution ensure that every event runs smoothly, supporting all other teams and contributing to the council's overall success.

Outreach and Collaboration Team - The Outreach and Collaboration Team builds connections with external organisations, sponsors, and other college bodies. They seek partnerships, sponsorships, and resource support to enhance events. Their efforts help expand the council's network, bring in opportunities, and foster meaningful collaborations that add value to students and the council alike.

Other Events:

Educational Tour Report

As per the office letter No. Samagra Shiksha (Ma0)/462-63/2024-25 dated 06.06.2024 of the State Pro-ject Director, Samagra Shiksha (Ma0), Uttar Pradesh, an educational excursion/study tour was organized at our institute from 12th December 2024 to 20th December 2024. Students of classes 9 to 12 from nearby districts such as Amethi, Raebareli, and Sultanpur participated in a one-day study visit to the Rajiv Gandhi Institute of Petroleum Technology, Jais (Amethi).

The purpose of this program was to introduce students to the environment of higher education, laboratories, research activities, and technological advancements, so that they could develop curiosity and interest in science and technology. During the tour, students visited the classrooms (Vivekanand Sabhagar) and Laboratory of the institute, and their queries were addressed by Faculty and subject experts. Each day, about 400 to 500 students participated in the visit. and in total, more than 4,000 students partici-pated in the program.

Participating Schools (12th to 21st December 2024)

- Government Girls Inter College, Salon, Raebareli
- Government Girls Inter College, Hariyawan, Raebarel.
- Government High School, Rohaniya, Raebareli
- Government High School, Suchi, Raebareli
- Government Girls Inter College, Maharajganj, Raebareli
- Government Girls Inter College, Dewanandpur, Raebareli
- Government Inter College, Fursatganj, Amethi
- Government Inter College, Ataura Buzurg, Raebareli
- Government Inter College, Sultanpur
- Government Inter College, Sultanpur
- Government Girls High School, Bela Bhela, Raebareli
- Government High School, Birnawa Deeh, Raebareli
- Government Inter College, Deeh, Raebareli
- Government Inter College, Fursatganj, Amethi
- Government Girls High School, Bela Bhela, Raebareli
- Government Inter College, Deeh, Raebareli
- Government High School, Suchi, Raebareli
- Government Girls Inter College, Salon, Raebareli
- Government Girls Inter College, Hariyawan, Raebareli
- Government Girls Inter College, Ajitpur, Raebareli
- Government High School, Rohaniya, Raebareli
- Government High School, Birnawa Deeh, Raebareli
- Government Inter College, Sultanpur etc.

During the visit, students observed the institute's various laboratories and research facilities. They were given detailed information about the functioning of different instruments, machines, and experiments by the subject experts. The students interacted with faculty members and research scholars, asked several inquisitive questions, and received thorough answers. They also learned about modern technological experiments, renewable energy, scientific research methodologies, and opportunities available in higher education.

The excursion resulted in a remarkable increase in the enthusiasm and interest of students. Many of them experienced such a large and advanced higher education institute for the first time. They felt inspired after witnessing ongoing research in laboratories and expressed their desire to pursue careers in the field of science and technology. This educational excursion boosted their self-confidence and opened new opportunities for higher education. Teachers and school administrators also appreciated this initiative and considered it very useful for the academic development of the students.

Overall, the study tour proved to be extremely beneficial for the students and gave them a new perspective for their future scientific, technical, and professional careers.

Report on Hydrogen Day 2024

Rajiv Gandhi Institute of Petroleum Technology (RGIPT), Jais, Amethi, celebrated World Hydrogen Day on 8th October 2024 with great enthusiasm under the Vigyan Jyoti Programme. This pro-gramme, an initiative of the Department of Science and Technology (DST), is implemented to encourage bright students of Navodaya Vidyalaya Samiti (NVS) to pursue science and technology. On this occasion, the significance of hydrogen as a sustainable energy carrier and its potential contribution to India's clean energy transition were highlighted. The programme was organized under the guidance of the Dean of Student Affairs, with the active participation of NVS students and teachers, along with RGIPT faculty members and students.

The programme commenced with a welcome address by Dr. Debashish Panda, Dean of Student Af-fairs, who emphasized the urgent need for innovations in hydrogen technologies to tackle the chal-lenges of climate change and rising energy demand. This was followed by Dr. Milan Kumar, Head of the Department of Chemistry, on the topic "Hydrogen Economy in India and Future Prospects." His talk focused on hydrogen production, storage, fuel cells, and emerging industrial applications.

As part of World Hydrogen Day 2024 celebrations, RGIPT organized a laboratory visit at 2:00 PM for Navodaya Vidyalaya Samiti (NVS) students and teachers. The students visited Chemical Engi-neering, Petroleum Engineering, Electronics Engineering, Bioenergy Engineering Laboratories, and the Central Instrumentation Laboratory, where they observed the Scanning Electron Microscope (SEM). The visit provided students with valuable exposure to advanced research facilities and inspired them towards careers in science, energy, and technology.

- To encourage student involvement, the following activities were organized:
- Display of World Hydrogen Day banners across the campus.
- Technical talks on hydrogen energy applications.
- Awareness sessions highlighting hydrogen's role in sustainable development.
- An interactive Q&A session with students.

The event also drew attention to India's National Green Hydrogen Mission, underscoring RGIPT's role as a premier institution in energy education and research aligned with the nation's vision of achieving energy security and sustainability.

Hydrogen Day 2024 at RGIPT, Jais, Amethi, provided a meaningful platform for students and re-searchers to discuss opportunities and challenges of hydrogen as the fuel of the future. The celebration reinforced RGIPT's commitment to cutting-edge research, innovation, and capacity building in the field of clean and renewable energy.

Chapter-16
Training & Placement

PLACEMENTS (2024-25)

Introduction: The Training & Placement Office facilitates the placement process of the students graduating from the Institute, besides collaborating with leading organizations and institutes in setting up internship and training programs for students. The office liaises with various companies and corporate houses, which conduct campus interviews and select graduate and post-graduate students from multiple disciplines. The Training & Placement Office provides the infrastructural facilities to conduct group online and offline discussions, tests, and interviews and cater to other logistics. The T&P Cell interacts with industries; nearly 60 companies visit the campus to hold tests and conduct campus interviews.

The placement season runs throughout the academic year, commencing in September and continuing till June. Pre-placement talks are also conducted in this regard as per mutual convenience. Job offers, dates of interviews, and candidate selection are announced through the Training & Placement Office. The needs of students and companies drive the placement process. Information related to Training & Placement are updated continuously on the website. Professor In-Charge heads the Training and Placement Cell.

About Placement Week: NOT APPLICABLE

	RGIPT Jais Campus	RGIPT Sivasagar Campus	RGIPT Bengaluru Campus
Starting Date of Placements	January 2024	February 2025	September 2025
Total No. of Companies Visited for Placements	22	03	39
Total Job Offers Made	71	12	56
Higher Studies Students	01	NIL	19
Students Receiving 2 Offers	08	NIL	05
Students Receiving More Than 2 Offers	NIL	NIL	00
Students Receiving More Than 3 Offers	NIL	NIL	00
Pre-Placement Offers	03	NIL	15
Highest Placement Package Offered	INR 25.00 LPA	INR 3.06 LPA	INR 23.50 LPA
Lowest Placement Package Offered	INR 4.25 LPA	INR 1.5 LPA	INR 5.60 LPA
Average Package for Eligible Students	INR 12.06 LPA	INR 2.50 LPA	INR 10.10 LPA

Total Eligible Students for Placements:

Name of Department/School	B. Tech	M. Tech	MBA	Diploma
Petroleum Engineering (at RGIPT Jais Campus)	26	-	-	-
Chemical Engineering (at RGIPT Jais Campus)	10	-	-	-
Management Studies (at RGIPT Jais Campus)	-	-	33	-
Chemical Engineering (at RGIPT Sivasagar Campus)	-	-	-	04
Fire and Safety Engineering (at RGIPT Sivasagar Campus)	-	-	-	04
Mechanical Engineering (at RGIPT Sivasagar Campus)	-	-	-	06
Petroleum Engineering (at RGIPT Sivasagar Campus)	-	-	-	06
Computer Science and Engineering (at Bengaluru Campus)	51	-	-	-
Information Technology (at Bengaluru Campus)	28	-	-	-
Mathematics and Computing (at Bengaluru Campus)	21	-	-	-
Electronics and Communication (at Bengaluru Campus)	15	-	-	-
Electric Vehicle Technology (at Bengaluru Campus)	-	04	-	-
Renewable Energy (at Bengaluru Campus)	-	04	-	-
TOTAL	151	08	33	20

Total Eligible Students in the year 2024-25:

a) Jais Campus : 69
b) RGIPT Sivasagar Campus : 20
c) RGIPT Bengaluru Campus : 123
TOTAL : 212

Details of the number of students placed during 2024-25:

Name of Department/School	B. Tech	M. Tech	MBA	Diploma
Petroleum Engineering (at RGIPT Jais Campus)	24	-	-	-
Chemical Engineering (at RGIPT Jais Campus)	09	-	-	-
Management Studies (at RGIPT Jais Campus)	-	-	31	-
Chemical Engineering (at RGIPT Sivasagar Campus)	-	-	-	04
Fire and Safety Engineering (at RGIPT Sivasagar Campus)	-	-	-	04
Mechanical Engineering (at RGIPT Sivasagar Campus)	-	-	-	-
Petroleum Engineering (at RGIPT Sivasagar Campus)	-	-	-	04
Computer Science and Engineering (at Bengaluru Campus)	33	-	-	-
Information Technology (at Bengaluru Campus)	14	-	-	-
Mathematics and Computing (at Bengaluru Campus)	14	-	-	-
Electronics and Communication (at Bengaluru Campus)	10	-	-	-
Electric Vehicle Technology (at Bengaluru Campus)	-	04	-	-
Renewable Energy (at Bengaluru Campus)	-	04	-	-
TOTAL	104	08	31	12

Total No. of Students Placed in the year 2024-25:

a) Jais Campus : 64
b) Assam Energy Institute : 12
c) Energy Institute Bengaluru : 79
TOTAL : 155

Chapter-17
International and Alumni Relation

Introduction

The purpose of the RGIPT Alumni Association is to foster strong ties between the alumni, the community, and RGIPT. It aims to motivate and engage alumni with their parent organization, encouraging lifelong connection, collaboration, and mutual growth.

a) The academic year **2024–2025** has been a year of active engagement and growth for the RGIPT alumni network. Several outreach initiatives, reunions, and interactive sessions were organized to strengthen alumni relations. Through platforms like **AlmaConnect** and social media, the office has successfully expanded its reach, enabling better communication and collaboration with alumni from diverse professional backgrounds.

Vision

To establish a strong and globally connected alumni community that actively contributes to the growth and reputation of RGIPT, supports current students through mentorship and collaboration, and promotes excellence and innovation in petroleum, energy, and related domains.

Mission

The mission of RGIPT Alumni association is to:

- Reconnect alma mater to their alumni.
- Providing a vibrant forum for interaction and networking among alumni.
- Mentoring role to current students.
- Associating with RGIPT for its perspective plans and fund-raising activities.
- To attain global recognition and exposure for RGIPT.
- Organizing events that facilitate reunification of alumni and present students of RGIPT.

Events

Date	Event
19th April 2025	Alumni Interaction – RGIPT Jais Campus
15th June 2025	Alumni Meet 2025 – RGIPT Bengaluru Campus

RGIPT Alumni Webinars (2024-2025)

Chemical Engineering Department

S. No	Alumnus Name	Webinar Title	Date	Platform	Details / Topic
1	Pranjal Maheswari, Batch (2018-22)	Demulsifying Interview Preparation: Intern, Project and Other Aspects.	25th August 2024	Online	tips on technical and HR interviews, emphasizing internships, projects, and communication for campus placement success.

MBA / Management Alumni

Name of the Event	Date	Alumni Name	Alumni Organization	Course	Batch	Mode of Interaction
Interaction Session	2nd August 2024	Aparna Trivedi	GAIL India	MBA	2022 - 2024	Online
		Meghna Chhokar	Jio BP	MBA	2022 - 2024	
		Sahil Gupta	IOAGPL	MBA	2021 - 2023	
Mock personal Interview for Jio BP	1st October 2024	Mayank Pandey	GAIL India	MBA	2021 - 2023	Online
		Khushboo Chaudhary	Jio BP	MBA	2022 - 2024	
Mock personal Interview for Torrent	October 28, 2024	Sparsh Nagar	Torrent	MBA	2022 - 2024	Online
		Srisha Sharma	Mahanagar Gas Ltd	MBA	2021 - 2023	
		Paridhi Gupta	Torrent	MBA	2022 - 2024	
Mock personal Interview for GAIL	November 9, 2024	Aparna Trivedi	GAIL India	MBA	2022 - 2024	Online
		Rahul Jain	GAIL India	MBA	2009 - 2011	
Mock personal Interview for IOCL	March 8, 2025	Parasmani Mishra	IOCL	MBA	2022 - 2024	Online
		Praveen Kumar	IOCL	MBA	2022 - 2024	
Industrial Interaction Highlighting Current Marketing Trend	19th March 2025	Prateek Rai	Tata 1 mg	MBA	2013 - 2015	Online

B. Tech Orientation 2024

S. No.	Program	Date	Alumni Involve	Current Affiliation	Platform
1	Alumni Interaction	Sep 15th 2024	Mr. Ashok Charan -2013 (Batch)	Deputy Director of Income Tax (Inv.) Income Tax Department, Jaipur	RGIPT Jais Campus
2	Alumni Interaction	Sep 15th 2024	Mr. Shubham Gupta - 2013 (Batch)	Manager (Reservoir), ONGC	RGIPT Jais Campus
3	Alumni Interaction	Sep 15th 2024	Miss Tanushree Agrawal -2016 (Batch)	Manager – Contracts & Purchase, Oil India Limited	RGIPT Jais Campus

Associated Student Chapter - 2025

S. No.	Event / Program	Event Date	Guest / Speaker	Associated Student Chapter	Topic / Details
1	Orientation 2024–25	17th-Feb-2025	Mr. Aditya Sharma (Former President), Mr. Gaurav Bhatia	European Association of Geoscientists and Engineers (EAGE)	Emerging Careers in Energy Transition, Sustainability and Geoscience Integration

2	Alumni Session	09th-Mar-2025	Ms. Arunima Singh (Farmer President)	Society of Exploration Geophysicists (SEG)	Applications for AI/ML in Geophysics, Bridging Academia and Industry in Energy Sector

Funds received

Rs. 6,03,000/- From Students (Alumni Membership fee)

Year- wise funds & Donors:

	Total Funds from Alumnus (in lakhs of Rupees)		Total No. Of Donors
2018-19	(*through donor) 0.52 Lakh	(*through fees) 1.72 Lakh	74
2019-20	0.58 Lakh	1.81 Lakh	82
2020-21	NIL	2.76 Lakh	NIL
2021-22	1.23 Lakh	2.98 Lakh	175
2022-23	0.09 Lakh	5.11 Lakh	12
2023-24	0.11 Lakh	5.73 Lakh	15
2024-25	0.34 Lakh	6.03 Lakh	48

Chapter-18
Research & Development

Ongoing Sponsored Research Projects

S. No.	Title of the Project	Period	Funding Agency	Amounts (in Lakh)	Principal Investigator/ Co-Ordinator
1	Numerical Analysis and Simulations of Compressible / Incompressible Euler and Naiver- Strokes Equations: Theoretical and Computational Studies	5 Years.	DST	21.09	Ms. Jyoti (Dr. Manoj Kr. Rajpoot).
2	Metal- Organic Frameworks - Derived Non-Precious- Metal- Based Nanostructured Materials for Electro catalysis	3 Years.	CSIR	19.44	Dr. Arshad Aijaz
3	Development of Electrodes & Modular Compact Membrane Less Electrolyze set up for sustainable H2 production from sea/tap/ground water	3 Years.	DST	253.28	Prof. (Dr.) A. S. K. Sinha
4	Investigation of magnetic structure and magneto electric coupling of designed 4d/5d-4f coupled strongly correlated systems	3 Years.	UGC-DAE CSR	0.45	Dr. Tathamay Basu
5	Study of Carbon dioxide storage and utilization for enhanced oil recovery in Indian oil fields using polymer-nanoparticle assisted carbonated water flooding.	3 Years.	SERB-DST	48.64	Dr. Shivanjali Sharma
6	Performance Evaluation of a floating biogas plant by integrated semitransparent photo-voltaic thermal (SPVT) collectors (Bio-SPVT)	5 Years.	DST	21.27	Mr. Divyanshoo Singh (Dr. Hemant Kumar Singh).
7	Syngas formation from direct gas phase co-electrolysis of CO_2 and H_2O at high current density using amine functionalized electrodes and elevated pressure	2 Years.	SERB-DST	25.69	Dr. Karan Malik

8	Investigating the optimal electricity generation mix for India using fuzzy portfolio optimization approach.	3 Years.	DST- SERB (MATRICS)	6.60	Dr. Mohd. Irfan
9	Closed Loop Control for Parabolic type Problems: Theory and Computation	2 Years.	SERB-DST	13.75	Dr. Sudeep Kundu
10	Synthesis and Evaluation of Nanocomposite-Pour Point Depressants (N-PPDs) to Inhibit Wax Deposition and Improve the Flow Properties of Indian Waxy Crude Oils for Pipeline Transportation	3 Years.	SERB-DST	23.58	Dr. Shailesh Kumar
11	Design and Investigation of Magneto electric Materials-an emerging route in data-storage devices	2 Years.	SERB-DST	33.15	Dr. Tathamay Basu
12	Mechanism of Carbon storage for enhanced oil recovery and net-zero scheme in oilfields of Cambay basin	3 Years..	SERB-DST	24.46	Dr. Tushar Sharma
13	Fabrication of Hybrid Ionic Electroactive Polymers- based Low-Powered, High- performance Soft Actuators for Soft Robotics Applications.	2 Years..	SERB-DST	24.96	Dr. Vipin Amoli
14	A critical assessment and socio-economic impact of Ayushman Bharat Pradhan Mantri Jan Arogya Yojna	6 months	ICSSR	5.38	Dr. Rohit Bansal
15	Detection and mapping of underground utilities for smart city development using non- destructive Geophysical method, Ground penetrating Radar	3 Years.	CST UP	14.58	Dr. Satish Kumar Sinha
16	Development of synthetic polymer-based reservoir drilling and completion fluid for high pressure and high temperature wells: fluids invasion modelling and mitigation.	3 Years.	SERB	27.55	Dr. Sidharth Gautam
17	Study of hydrate promoters for development of transport system for CO_2 as gas hydrate.	2 Years.	SERB	31.97	Dr. Amit Kumar
18	Development of catalyst coupled photo electrodes for renewable energy	1 Year.	UGC- DAE CSR	0.45	Dr. Debasis De

19	The impact of demographic factor in Risk Tolerance: A case study of Saudi Arabia	1 Year.	Saudi Electronic University	2.73	Dr. Rohit Bansal
20	Artificial Intelligence (AI) For Smart Sensing and Internet of Everything (IOE)	5 days	SERB	5.00	Dr Sajal Aggarwal & Dr Ankur Pandey
21	Workshop on intellectual property right	2 months	CST-UP	1.53	Dr. Amarish Dubey
22	Net Zero & Energy Transition for Sustainable Development	1 year	ICSSR	5.00	Dr. Jaya Srivastava
23	Designing and Realization of D shaped PCF-SPR Sensor for Blood Cancer Detection and Development of Novel Machine Learning Methods for Early Predictions.'	02 Years	UPCST	8.50	Dr. Sajal Agarwal and Dr. Ankur Pandey
24	Real Time AI- Driven Critical Infrastructure Identification for Industrial Cyber Physical System	02 Years	UPCST	7.72	Dr. Saptrishi Ghosh and Dr. Ankur Pandey
25	Sustainable Point - Source Co2 Capture Method: Role of Hydrodynamics n Gas-Liquid reaction"	03 Years	UPCST	16.08	Dr. K.G. Biswas and Dr. Debashis Panda
26	Solar energy and sustainability: An empirical research project on solar energy and sustainability	01 Year	ICSSR	12.00	Dr. Rohit Bansal and Dr. Sanjay Kar
27	A Proposal Color Less Fully Transparent & Flexible Organic Thin-Film Transistors for Invisible or See-Through Electronics Application	2 Years.	SERB-DST	28.08	Dr. Abhishek Kumar Singh
Total				682.94	

Ongoing Industrial Projects

S. No.	Principal Investigator/ Co- Ordinator	Title of the Project	Industry	Amount (in Lakh)
1	Dr. Deepak Dwivedi	Corrosion in the biogas equipment and Biogas production	Geo Engineers Pvt. Ltd.	16.00

2	Prof. Satish Kumar Sinha	3D Geo-mechanical Model Development for Balimara Field	Oil India Ltd.	18.43
3	Dr. Tushar Sharma	Single - step Silica Nano fluids to enhance Mechanical properties, Microstructure refinement and as a Shale Stabilizer for cement slurries	IDT-ONGC Deharadun	26.10
4	Prof. Alok Kumar Singh	Organic Petrography, Biostratigraphy and Palynology Study of Shales of well Sadiya-1 of Oil India Limited	Oil India Ltd.	19.79
5	Prof. Sanjay Kumar Kar	A study on hydrogen industry competitiveness in India: Role of Northeastern States	Oil India Ltd.	9.56
6	Dr. Shivanjali Sharma	Study and one-step solution for downhole problems of Oil India Limited using multi-functional drilling fluid additive	Oil India Ltd.	19.92
7	Dr. Satish Kumar Sinha	Geoscientific Data Analysis of Ganga-Punjab and Vindhyan Basin	DGH	11.66
8	Dr. Shivanjali Sharma	Development of surfactant-based drag reducing agents for transportation of asphaltic crude oils through pipelines	HMEL	11.00
9	Dr. Amit Saxena and Dr. Shivanjali Sharma	Microwaves assisted mobilization of viscous crude oil for improved oil recovery and flow assurance application: a study on lab to field approach	ONGC	37.68
10	Dr. Amit Saxena and Dr. Shivanjali Sharma	Study and One-Step solution for Downhole Problems of Oil India limited using newly synthesized multi-functional drilling fluid addictive	Oil India Ltd.	19.92
11	Dr. Deepak Dwivedi	Examining the RGIPT Corrosion inhibitor formulation developed for mitigating the corrosion led by ethanol blended petrol through industrial fields trials by CPCL and commercializing the technology.	CPCL Chennai	52.80
12	Dr. Debashis Panda	Scaling up to demonstration plant: production of Micro cellulose, Nano cellulose and fuel (Dimethyl Furan) from Rice straw and green coconut shells	CPCL Chennai	85.00
13	DR. SATISH KUMAR SINHA	Geophysical survey for the Malshej Ghat Project, Malsej, state of Maharashtra	Geowings Engineering	12.00
14	Prof. A.S.K Sinha and Dr. Milan Kumar	Collaborative Research Project on "Technical Upgradation of electrode and membrane less electrolyze for Sea water electrolysis	NTPC	128.67
15	Dr. Milan Kumar and Dr. Arshad Aijaz	Demonstration of redox flow battery for stationery energy storage at KW Scale	BPCL	97.70

16	Dr. Malaya Kumar Sahoo, Dr. Arshad Aijaz, Prof. A.S.K Sinha	Fabrication assembly and transportation of two prototype working models.	NRL	36.00
17	Dr. Deepak Dwivedi	Development of corrosion inhibitor formulation for mitigating corrosion led by methanol blend diesel	NRL	96.91
18	Dr. Debasis Panda and Prof. A.S.K Sinha	Lignin based bio adhesive development and its process optimization.	NRL	88.00
19	Dr. Shweta and Dr. Rakesh Kumar	Methanol diesel blending to achieve stable mixtures	NRL	83.11
20	Dr. Amit Saxena and Dr. Shivanjali Sharma	Feasibility study on the effect of electromagnetic radiation on thermal upgradation of Oil India limited heavy crude oil	OIL Jodhpur	3.93
21	Dr. Malaya Kumar Sahoo and Prof. A.S.K Sinha	Electrochemical conversion of HSD and NH3 in sour water to H2 Sulphur and ammonium sulphate	NRL	67.50
22	Dr. V.S. Sistla and Dr. Gunjan k Agrahari	Propane separation	BPCL	64.81
23	Dr. Arshad Aijaz and Dr. Malaya Kumar Sahoo	Electrochemical conversion of aq. ethanol/ methanol to acetic acid/ formic acid and hydrogen	NRL	72.00
24	Prof. M.S Balathanigaimani, Dr. Shikha and Prof. A.S.K Sinha	Development of hard carbon-based anode from Per- coke Sodium-ion Batteries	BPCL	82.52
Grand Total				1,161.02

Patents Detail (2024-25)

Patents Filed

S. No.	Name of Faculty	Title of Patent
1	Dr. Milan Kumar	A structure for liquid electrolytic distribution for flow battery and a method thereof
2	Dr. Deepak Dwivedi	Blister Resistant And Corrosion Resistant Additive For Red Oxide Primer
3	Dr. Deepak Dwivedi	In house inhibitors developed for ethanol blended fuel, application number
4	Dr. Amit Saxena	Drag Reducing Composition and Process of Preparation Thereof.
5	Dr. D. Panda & Dr. Milan Kumar	Bifuntional electro catalyst for hydrogen production at industrial current density and process for preparing the same.

Patents Published

S. No.	Name of Faculty	Title of Patent
1	Dr. Deepak Dwivedi	Blister Resistant And Corrosion Resistant Additive for Red Oxide Primer
2	Prof. A.S.K. Sinha, Prof. Balathanigaimani and Dr. Arshad Aijaz	Three-Dimensional Electrode for Seawater Electrolysis
3	Dr. Shikha	Molybdenum Based Durable Electro Catalyst and Fabricated Electrodes for Sustainable and Efficient Sea Water Splitting
4	Dr. Arshad Aijaz, Prof.ASK Sinha, Prof. M.S. Balathanigaimani	Method and System for Sodium Sulfide Induced Nifco Based Trimetallic Electrode for Sea-Water Electrolysis
5	Prof. UP Ojha, Prof A.S.K. Sinha	Bimetallic Nano catalysts for Water Splitting Applications and Method Thereof

Patents Granted

S. No.	Name of Faculty	Title of Patent
1	Dr. Tushar Sharma and Krishna Raghav Chaturvedi	A system for effective hydrogen storage in heterogeneous formations using TiO2 Nano fluid and method for synthesizing TiO2 Nano fluid of varying sizes
2	Dr. Deepak Dwivedi	Blister Resistant and Corrosion Resistant Additive for Red Oxide Primer

New Facilities Added(CIF)

S.I	Equipment	Amount (₹)
1	Tribo-Corrosion Mechanical Tester	13,000,000.00

Distinguished Visitors

S. No.	Name of the visitor & Designation	Date of Visit	Purpose of Visit
1	Mr. Bipul Kalita, DGM (R&D), NRL Mr. Amitabh Roy, Manager (R&D), NRL	24.09.2025	New Project kick off meeting and PMC (Project Management Meeting)
2	Shri Anil Sahni CGM (TS) Ms. Ramya M, AM (R&D) Dr. Gajendiran M, AM (R&D)	27.11.2024	Review and Discussion of ongoing project.

3.	Shri Aditya Kumar Sinha Scientist ‘G’ & Director, C-DAC Patna Dr. Chandrapati Appala, Satyanarayan Murty Scientist ‘G’ & Centre Head, C-DAC Kolkata Sri Ritesh Mukherjee, C-DAC Team Dr. Arjun Jana, C-DAC Team	27.06.2024	MOU Signing
4.	Dr. M. Gajendiran AM (R&D) CPCL Team	23.05.2024	Review and Discussion of ongoing project.
5.	Shri. Sachiv Kumar, DGH (ADG Development Team	26.04.2024	Interaction with faculty member, CIF Research Activities.

Chapter-19
Institute Works Department

- **Procurement of Furniture items for Boys & Girls Hostel building and physics lab at RGIPT Jais campus:**

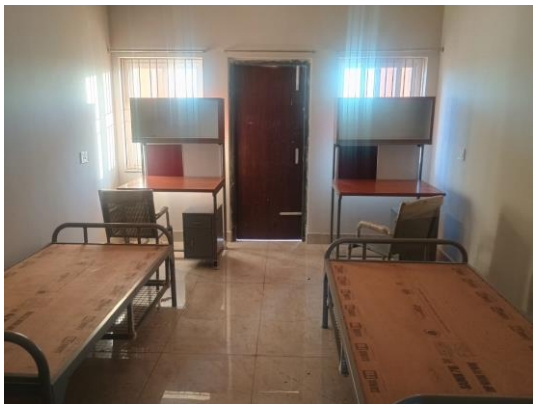
  To provide the basic amenities in boys & girls hostel buildings and to provide additional working tables at physics laboratory, furniture items like chairs, tables, beds and laboratory tables were procured for an estimated amount of Rs.59,27,000/-.





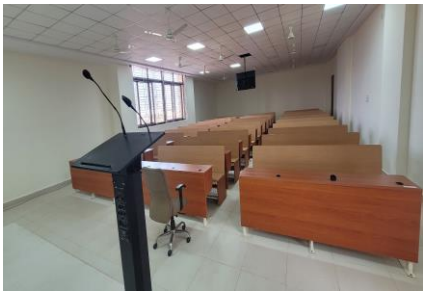
- **Procurement of Furniture items for Hostel buildings at RGIPT Assam Centre:**

  To make the boys & girls in proper livable condition, hostel furniture's items were procured for an estimated amount of Rs.18,20,600/ at RGIPT Assam Centre.

- **Procurement of Furniture items for RGIPT Bangalore Campus:**

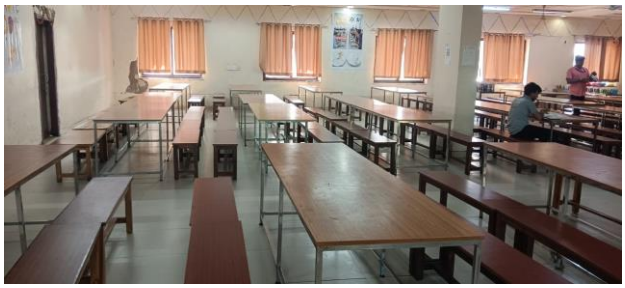
In order to make the building fully operational and to start the academic calendar 2024-25 from RGIPT Bangalore campus, furniture's items for academic, hostels and Dining building were procured for an estimated amount of Rs.1,52,01,680/-.






- **Procurement of Dining Hall furniture for hostel mess building at RGIPT Jais Campus:**

To provide the additional sitting space for the students to cater the extra load, dining hall furniture for student mess area were purchased for an estimated amount of Rs. 2,61,960/- at RGIPT Jais campus.

- **Procurement of writing pad chairs for RGIPT Jais Campus:**

To meet the requirement of academic department, writing pad chairs were purchased at RGIPT Jais campus for an estimated amount of Rs.1,70,150/-.

- **Construction of 3 Nos of synthetic courts:**

To provide the additional playing area, 3 Nos of synthetic badminton courts were developed for the students. The said work will provide the students extra space for their recreational and extra co-curricular activities. Along with this, some existing courts were resurfaced for proper

playing conditions and ambience. The estimated amount for the said work was of Rs. 19, 07, 000/-.



- **Water proofing work of RG Plaza:**

  In order to arrest the water leakage, water proofing work was carried out in administrative building of RGIPT Jais campus for an amount of Rs. 5,72,245/-.

Chapter-20
Institute Hostel

Renaming Hostel Blocks & Formation of Eight Hostels: Individual blocks of the hostels have been renamed after eminent Indian personalities, as separate hostels for effective governance. Each hostel has now been assigned a dedicated warden for better coordination.

Painting and Color Code of Each Hostels: All hostels have been freshly painted and demarcated with different colors.

Hostel Nameplates: Each hostel has been displayed its name in large SS304 metal letters.

Reorganization of Gym: The reorganization of Gym has been made logically with purchase of various new equipment's. The Gym area has been extended with addition of new rooms.

Creation of Warden Offices: Three new warden offices are being created, where two wardens from each hostel will be stationed.

Biometric/Face Scan at Mess: Biometric /facial recognition systems at the student mess are done to streamline entry and ensure better monitoring. The Mess Bill will be prepared on the basis of same.

Allotment of Stationery Shop in Hostel Premises: The present allotment of shop in hostel premises was reviewed and accordingly tender was floated on Institute website in the second week of July, 2025 for fresh allotment. The new allotment was done in the month of Sep-2025.

Disposal of Scrap: A committee was formed by the Competent Authority for the disposal of scrap in and around the hostel area. Accordingly, a tender for Scrap Disposal was floated on Institute Website in the last week of the July,2025. The work of scrap disposal is being completed and an amount of Rs. 4,77,600/- has been deposited in the Institute Account till date.

Mess Tender: A Mess Tender was floated on CPP Portal on 25.09.2025 for running of Student's mess at Jais and Bangalore Centre. The Pre bid meeting of the same was done on 29.09.2025. The last date of submission of Bids is 16.10.2025 and the date of opening of technical bids is 17.10.2025.

Formation of Mess Committee: A Mess Committee was approved by the Competent Authority to oversee all matters pertaining to mess operations, including mess account handling, bookkeeping, finance, billing and vendor payments of mess bill.

Formation of Maintenance Committee: A Maintenance Committee was approved by the Competent Authority to prepare and monitoring of AMC contracts, coordination with the contracted agency, follow up maintenance works, maintaining a dedicated maintenance account, overseeing financial transactions etc.

Approvals for change in charges: Approval for revision of various charges were taken from the Competent Authority: -

a. Hostel Room Rent for project staff receiving fellowship of Rs. 20,000/- per month was revised to Rs. 75 per day.

b. Hostel Room Rent for project staff receiving fellowship above Rs. 20,000/- per month was revised to Rs. 100 per day.

c. Hostel Room Rent for single occupancy was revised to Rs. 24,000/- per month.

d. The License fees charged for the Mess was revised to Rs. 20,000/- per month and the License fees charged for the Night Canteen was revised to Rs. 2,500/- per month.

Installation of Bore Wells: Two borewells were installed in the "D" Block and "E" block of the Hostel premises for meeting the water requirements of the students.

Chapter-21
Assam Energy Institute, Sivasagar

Year of Establishment: 2017
Incharge of the Centre: Dr. Chinmoy Jit Sarma w.e.f. 2017

Brief Introduction of the Department/Centre:

Rajiv Gandhi Institute of Petroleum Technology, Sivasagar Campus is a premier Engineering Institute, located in Sivasagar, Assam. Institute is offering diploma level courses in Chemical Engineering, Computer Science and Engineering, Mechanical Engineering, Petroleum Engineering, Fire and Safety Engineering, Electrical Engineering and Electronics and Instrumentation Engineering. Rajiv Gandhi Institute of Petroleum Technology, Sivasagar Campus was launched for offering programs of education and training of skilled technical manpower at the diploma level in various areas in the domain of petroleum, petrochemical and allied sectors.

The Ministry of Petroleum & Natural Gas (MOP& NG), Government of India set up The Rajiv Gandhi Institute of Petroleum Technology (RGIPT) through an Act of Parliament ("Rajiv Gandhi Institute of Petroleum Technology Act 2007"). RGIPT has been accorded the eminence of being an "Institute of National Importance" along with the lines of Indian Institute of Technology (IIT). RGIPT is co-promoted as an energy domain specific institute by six leading Oil Public Sector Units (ONGC, IOCL, OIL, GAIL, BPCL, HPCL) in association with the Oil Industry Development Board (OIDB). The Institute is also in association with leading International Universities/Institutions.

- Highly qualified and well experienced faculties from Top Institutions
- Classroom equipped with State-of-the-Art facilities
- Laboratories equipped with exquisite and modern Equipments/Apparatuses
- Central library with ample number of text & reference books as well as journals
- Separate hostel facilities for Boys and Girls along with mess facilities
- An accomplished platform for the overall personality development of the students
- Provides On-campus Training & Placement in PSUs and Top Industries

Major areas of Research

Infrastructure

The campus of RGIPT Sivasagar is located in the historically and industrially important city of Sivasagar, Assam. Located in Gohain gaon, it boasts a total campus area of 100 acres of which 35 acres are being developed for academic and residential purposes. As of now the campus has

developed infrastructure to cater 1000+ students at classrooms with additional 300+ at laboratories simultaneously. The Institute also has a state of the art mechanical workshop which not only provides key practical knowledge to its existing students but also conducts skill development workshops. The existing hostel facilities provides residential accommodation for 400 students with a dining hall to cater all hostels simultaneously. In addition to the existing hostel facilities, new hostels for 300 more students are coming up by next session. Construction of faculty quarters are also ongoing and are expected to be completed by April 2026 to ensure better administrative control of the residential campus.

S. No.	Particulars	Number
1	No. of Classrooms	13
2	No. of Lecture Halls	5
3	No. of Laboratory	11
4	No. of Computers available for students in the Department/Centre/ Centre	30

Established infrastructure

Temporary Academic Building:

For functioning of the Sivasagar centre of RGIPT, construction of a temporary academic building was completed in 2018. The building having a plinth area of 897 sqm. of single storey RCC frame structure with roof truss & GI profile sheet has been functioning as the only building for all academic and administrative works. It comprises of 6 nos. of classrooms, 2 rooms for Fire & Safety Labs, 1 computer lab of 30nos. computers and 6 nos. rooms for administrative office, academic office, faculty and staff seating facility.

4 nos. Classroom Building:

For conducting classes of undergraduate courses, 4 nos. of classrooms were additionally constructed with 2 of 48 capacity & 2 of 96 capacity facilitated with interactive smart display boards and Electronic lecturn.

Central Workshop & Common Laboratory Block:

To provide the basic skills of all kinds of mechanical machines to students, AEI, Sivasagar has a central workshop of plinth area 386.28sqm. It is well facilitated with staff room, washroom, toilets and adequate points of industrial power sockets for use of heavy machinery.

Along with this, a temporary common laboratory of plinth area 127.87 sqm. has been set up to conduct its undergraduate laboratories in an efficient way.

Also, to provide a secured area for storage of all kinds of materials, a 3 nos. storeroom building of plinth area 90sqm. has been constructed in the Central Workshop block.

The whole block is well connected by paver block & cement concrete roads/ pathways.

Office of CPWD:

To ensure proper execution of work of all projects under CPWD, an office of assistant engineer, CPWD consisting of 4 nos., rooms have been constructed near gate no.3. The office is constructed

under the vision that after completion of the projects under CPWD, the building will be used by AEI according to its necessity.

2 nos. Boys Hostels:

To facilitate the accommodation of students, two 156 capacity boys' hostels has been recently completed and Inaugurated on 4th of March'2024 by Hon'ble MOS for MoPNG Sri Rameshwar Teli. With total capacity of 312 students distributed in two G+ 3 storey buildings, the hostels were operational from the academic session 2024-25, with BH-1 being solely dedicated to 1st year students.

G+1 Academic Building (Ground floor):

In the process to develop the proper infrastructure for each of its domains, which will facilitate the conduct of undergraduate classes and laboratories in a much efficient way, The main Academic Building has been constructed. The ground floor of the building has laboratories of Physics, Chemistry, Petroleum Engineering, Electronics Engineering and Unit Operation with 2 classrooms of 60 capacity & 1 classroom of 120 Capacity having smart display. It also accommodates offices for faculties and a library.

The Academic building was inaugurated on 4th of March 2024 by Hon'ble MOS for MoPNG Sri Rameshwar Teli.

Girls Hostel-1:

To accommodate the girls enrolled in under graduate courses, G+3 storey building has been constructed. The hostel building contains 45 numbers double occupancy rooms with additional rooms for residential caretaker and warden office. On 04th March,2024 the building was inaugurated by Hon'ble MOS for MoPNG Sri Rameshwar Teli and has been operational from new academic session 2024-25.

G+1 Dining Hall:

To establish a common mess facility for all hostels, a G+1 dining hall building has been constructed in the AEI campus. The building has a capacity to accommodate 448 students at a time. On 19th of June, 2024, the building was inaugurated by Hon'ble Director RGIPT.

At present only 1 floor is being in use which accommodates 224 students at a time.

Water Supply Scheme:

To fulfil the water supply demand of upcoming 5 nos. hostels, faculty housing and new academic building, establishment of a fully functional water supply system has been started. The supply system is designed to cater 1000+ residential users and 2000+ institutional users per day. The project includes an underground sump of capacity 2.5lakh litres, 2 submersible pumps, 6 nos. distribution pumps of 15 hp each, iron filtration plant and chemical room.

Fencing for Girls Hostel:

To ensure safety and security of the students of girls' hostel, a fencing enclosing the girls' hostel was constructed. It is a MS iron grill structure of height 8ft enclosing the hostel building with a perimeter of 145 metres.

Establishment of Street lights in the campus:

To ensure proper lighting and 24X7 visibility in the campus, a network of street lights was erected along the internal road network. A total of 127 nos. street lights of 100 watt each were erected on 6 metre poles at 18 metre spacing which approximately covers 2.5 kms of inter road network of the campus.

Under Construction

Construction of 1st floor of Academic Building:

To fulfill the requirement of additional classrooms and faculty rooms, extension of the building (1st floor) is under construction and expected to be completed by the end of the June. It will further add 5 more classrooms of 100+ capacity and a 60 capacity computer laboratory, In addition to faculty rooms and common research hall.

Construction of Boundary Wall:

As per the security requirements of the AEI campus, Construction of boundary wall with gates have been started in the whole 100acres campus. An additional intermittent wall of precast concrete blocks is constructed within the 35acres campus. Construction of brick wall in the 65acres of low lying land is 90% completed.

Construction of Additional Girls & Boys hostels:

To cater the demand of hostel requirements, additional 1 no. boy's hostel and 1 no. girls hostel is being constructed. The G+4 Boys hostel will have a capacity of 192 students with common area for indoor games and other recreational activities.

Similarly, the girls' hostel will be a 100 bedded G+4 structure with common area for indoor games and other activities.

As of 31st march 2025, basic RCC structure work of the Girls Hostel building is completed and RCC structure upto G+3 is completed in boys' hostel.

Construction of Gate Complex:

With the establishment of AEI campus, construction of 3 nos. entry/exit gates of height 8.27m each has been started at location as marked in the campus plan. The 3 nos. gate complex will be provided with centric post at each gate and waiting room in the main gate complex. As of 31st march 2025, construction 1 gate is nearing completion and finishing work is under progress in the rest 2 gates.

Construction of Faculty Housing

To provide residential accommodation for the faculties of the institute, a G+6 storey faculty housing project has been started. After completion of the building it will accommodate 36 nos. 3BHK apartments in a two tower structure along with ground floor parking for 36 nos. 4 wheel vehicles.

As of 31st march 2025, RCC work upto G+4 structure is completed.

Unique Achievement / Preposition of the Department/Centre:

- The first Centrally Funded Institute in India that offers specialised Integrated Diploma and B. Tech Degree (IDD) courses in Chemical Engineering, Computer Science and Engineering, Mechanical Engineering, Petroleum Engineering, Fire and Safety Engineering, Electrical Engineering and Electronics and Instrumentation Engineering.

- Industry oriented curriculum

- Provides excellent platform for Institute-Industry Interaction

- Integrated Diploma-Degree Programs (IDD) for engineering are the educational programs that offer a streamlined path for students to earn both a diploma and a bachelor's degree in engineering. These programs are typically designed to save time and provide a seamless transition from a diploma program to an undergraduate degree program. The IDD program provides students an opportunity for higher education and keeps students motivated to perform well. IDD programs combine the curriculum of a diploma program and a bachelor's degree program in engineering. The first part of the program focuses on diploma-level coursework, which provides students with a solid foundation in engineering fundamentals. The latter part includes advanced coursework that is typically covered in a traditional bachelor's degree program. As IDD programs offers seamless transition, students don't have to go through a separate application process to transition from the diploma to the degree program; it's usually a smooth transition based on their performance on their diploma program. The program is uniquely designed and structured considering New Education Policy (NEP), 2020 which promotes Multiple Entry - Exit options across the courses, giving the students the freedom to leave and join at multiple levels. NEP 2020 opens new dimensions for the students to upskill, re-skill and pursue higher education opportunities at their own convenience. NEP 2020 emphasized the importance of skill development and hands-on experience in engineering education. Proposed IDD programs is expected to provide comprehensive and integrative education by incorporating practical training and skill development components.

PLACEMENTS (2024-25)

DETAILS OF PLACEMENT	
Starting Date of Placements	24/04/2024
Total No. Of Companies Visited for Placements	4 Nos
Total Job Offers Made	6
Students Receiving 2 Offers	Nil
Students Receiving More Than 2 Offers	Nil
Students Receiving More Than 3 Offers	Nil
Pre-Placement Offers	Nil
Highest Placement Package Offered	₹ 1,85,000/-
Lowest Placement Package Offered	₹ 1,80,000/-
Average Package for Eligible Students	₹ 1,82,000/-

Details of Total Eligible Students for Placements:

Name of Department	Diploma
Mechanical Engineering	24
Chemical Engineering	24
Petroleum Engineering	19
Electronics and Instrumentation Engineering	15
Fire and Safety Engineering	10
TOTAL	92

Total Eligible Students in the year 2024-25: 92

Details of the number of students placed during 2024-25:

Name of Department	Diploma
Mechanical Engineering	3
Chemical Engineering	0
Petroleum Engineering	0
Electronics and Instrumentation Engineering	1
Fire and Safety Engineering	2
TOTAL	6

Total No. of Students Placed in the year 2024-25: 6

Academic Programmes offered

List of Programmes offered by the Department

S. No.	Programme	I Year	II Year	III Year	IV Year	V Year & above
1.	B. Tech					
2.	IDD					
3.	M. Tech/MBA					
4.	Diploma	280	166	95		
5.	Ph. D (Under Institute Fellowship)	02	02	03		
6.	Ph. D (Under Project Fellowship)	01	0			
7.	Ph. D (Under Sponsored Category)					

Names of students/scholars who attended conferences/workshops/seminars and symposia abroad or in India:

S. No.	Name of Student	Roll No.	Conference/Seminar/Symposia/Workshop	Date & Venue	Financial Assistance From
INDIA					
1	Poulomi Basak	22EA0003	International Conference on Optimization with Artificial Intelligence and Soft-Computing, 2024. International Conference on Recent Trends in Mathematics, 2025.	Sep 30 - Oct 1, 2024, NIT Nagaland 07 - 08 Feb, 2025, University of Delhi.	Self Institute
2	Gaurav Kumar	22EA0006	One day Energy Research and Sustainability seminar, IEEE Five-day Faculty Development Programme On AI and ML	28/08/2024 BIT Sindri Dec 2 to 6, 2024, NIT Rourkel	Self Self-Funding

			Applications in Power Systems 2024 International BIT Conference (BITCON), BIT Sindri, Dhanbad, India 2025 IEEE 1st International Conference on Smart and Sustainable Developments in Electrical Engineering (SSDEE), IIT Dhanbad, India	Dec 7 to 8,2024, BIT Sindri Feb 28 to March 2, 2025, IIT Dhanbad	Institute Funding Institute

Names of scholars/students who won Convocation/Institute Day prizes:

S. No.	Name of Student	Roll No.	Name of Prize	Prize awarded by
1	ARKO SARKAR	21EA4PE08	President's Gold Medal	Dr. Ranoj Pegu (Hon'ble Minister of Education, Welfare of Plain Tribe & Backward Classes)
2	IPSHITA CHETIA	21EA4ME41	Director's Gold Medal	
3	AKASH DEEP HAZARIKA	21EA4CE02	Institute Gold Medal	
4	HARISH GOGOI	21EA4EC10	Institute Gold Medal	
5	PARTHA PRATIM BORBORUAH	21EA4FS16	Institute Gold Medal	
6	BHARGAV GOGOI	21EA4ME09	Institute Gold Medal	
7	ARKO SARKAR	21EA4PE08	Institute Gold Medal	

Faculty & their Activity

Faculty and their areas of specialisation:

S. No.	Name	Qualifications	Employee No.	Date of award of PhD Degree	Date of Joining in the Department	Major Areas of Specialization (Max. 3)
ASSISTANT PROFESSORS						
1	Dr. Sanat Kumar Singha	BTech (KGEC, Kalyani), MTech (IIT Roorkee), PhD (IIT Kharagpur)	229	05/06/2019	4/11/2020	Heterogeneous Nucleation, Monte Carlo Simulation, Surface Icing
2	Dr. Chinmayee Hazarika	Ph.D.	236	12/14/2018	31/03/2021	Bioelectronics devices, sensors, MEMs fabrication
3	Dr. Karthik Babu NB	Ph.D.	257	01/12/2021	03/09/2021	Mechanical Engineering
4	Dr. Bhaskor Jyoti Bora	B.E., M.Tech, Ph.D.	204	02/10/2016	12/10/2018	Biofuels, Engines and Exergy analysis, Hydrogen application
5	Ms. Ananya Borah	MTech (Health, Safety & Environment)	216		28/09/2020	Behaviour Based Safety, HSE (Health, Safety, Environment) management in Oil and Gas industry, Risk

						Assessment
6	Dr. Nilambar Bariha	Ph.D.	239	9/24/2017	22/4/2021	Industrial Safety and Hazards Management; Fire Modelling and Simulation; Fire Science; Fire Dynamics
7	Dr. Nimisha Raghuvanshi	Ph.D., Post-Doctorate	219	06/01/2017	12/10/2020	Codensed Matter Physics
8	Dr. Anil Kumar Varma	Ph.D.	222	10/07/2018	19/10/2020	Bioenergy (Pyrolysis of biomass and waste plastics, Bio-oil from algal biomass) Wastewater treatment Mass Transfer
9	Dr. Sekhar Gogoi	Ph.D.	194	04/06/2025	25/09/2020	Petroleum Engineering, Enhanced oil recovery and Microfluidics
10	Dr. Arun Kumar	Ph.D.	221	6/23/2020	16/10/2020	Environmental Remediation, Advanced Oxidation Process, Electrochemical Oxidation
11	Dr. Satish Kumar Tiwari	Ph.D.	220	11/03/2017	12/10/2020	Mathematical Modeling, Mathematical Ecology, Nonlinear Dynamics
12	Dr. Sabyasachi Pramanik	Ph.D.	218	11/26/2018	8/10/2020	Nanoscience, Quantum Dot, Energy Applications
13	Dr. Souvik De	Ph.D.	225	11/18/2011	21/10/2020	Physical chemistry, Materials Science
14	Dr.Bhaskar Jyoti Medhi	Ph.D.	197	06/12/2019	25/09/2020	Complex fluids, Experimental fluid dynamics , Renewable Energy
15	Dr. M. Chakkarapani	Ph.D.	235	12/29/2017	31/3/2021	Power Electronics, Renewable Energy Systems and Control Systems
16	Dr. Shikha Dwivedi	Ph.D.	228	2/21/2017	2/11/2020	Soft Condensed Matter Theory, Modelling
17	Dr. Santosh Kumar Verma	Ph.D.	256	08/01/2018	24/08/2021	CONTROL SYSTEMS, MICROGRID
18	Dr. Srawanti Medhi	Ph.D.	0217	05/09/2020	07/10/2020	Nanotechnolog,Computational Fluid Dynamics (CFD), Rheology of Complex Fluids, Drilling, completion and fracturing fluids and Drilling Hydraulics
19	Dr. Satyajit Chowdhury	Ph.D.	0223	29/12/2023	19/10/2020	Nanotechnology, Computational Fluid Dynamics (CFD); Machine Learning; Reservoir Engineering, Rheology of Complex

						Fluids, Drilling Engineering
20	Dr. Chinmoy Jit Sarma	Ph.D.	0174	16/05/2024	24/09/2020	IC Engine, Alternate Fuels and Petroleum Exploration and Production
21	Dr. Rupjit Saikia	Ph.D.	0173	01/01/2021	25/09/2020	Fuzzy Set Theory, Uncertainty Modelling and Hesitant Fuzzy Set Theory
22	Dr. Abhimanyu Kar	Ph.D.	0227	05/03/2018	29/10/2020	Thermal Science and Engineering

Technical and Non-Teaching Staff:

Sl. No.	Name, Qualifications	Designation	Date of Appointment in the department
1	Dr. Suramoni Borthakur, Ph.D.	Tech. Superintendent	07-02-2022
2	Mr. Aghna Tiyas Mandal, M. Tech. (ECE)	Tech. Superintendent	16-02-2022
3	Dr. Sourav Bharali, Ph.D.	Tech. Superintendent	28-02-2022
4	Ms Parishmita Sharma Baruah, M.Sc. (Statistics)	Assistant	20-01-2022
5	Mr. Pulakesh Kumar, B. Tech (ECE), MBA (Finance & Marketing)	Assistant	07-03-2022
6	Mr. Kaushik Das, M. Tech (ECE)	Assistant	24-03-2024
7	Dr. Tapan Jyoti Gogoi, Ph.D.	Technician	18-01-2022
8	Mr. Sumeer Kumar Saikia, M.Sc. (Physics)	Technician	20-01-2022
9	Jyotirman Bharadwaj, B.Tech (Civil)	Asst. Engineer (Outsourced)	14-02-2022
10	Nimisha Neog , MTech(ECE)	Tech. Superintendent (outsourced)	24-02-2022
11	Gargi Kashyap, MTech (ECE)	Tech. Superintendent (outsourced)	29-03-2022
12	Santanu Dutta, B. A (pursuing M.A Pol.Science)	Assistant (Outsourced)	18-12-2017
13	Bikram Changkakoti, B.A (pursuing M.A. Assamese)	Assistant (Outsourced)	18-12-2017
14	Dipa Borgohain, H. S	Matron (Outsourced)	12-04-2021
15	Madhab Jyoti Borgohain, B. A	Caretaker (Outsourced)	30-12-2021
16	Biduyot Das, Hslc	Electrician/Plumber (Outsourced)	01-04-2018
17	Suraj Buragohain, B. A	Peon (Outsourced)	01-04-2018
18	Protap Ch Borah, H. S	Peon (Outsourced)	01-04-2020
19	Pranjal Das, H. S	Peon (Outsourced)	01-04-2020
20	Arup Lahan, B. A	Peon (Outsourced)	01-04-2022
21	Uttam Urang, 8th	Cleaner (Outsourced)	01-04-2018
22	Debojit Das, 8th	Cleaner (Outsourced)	01-09-2018

23	Utpal Chutia, B. A	Cleaner (Outsourced)	01-04-2022
24	Ajoy Bhuyan, 7th	Cleaner (Outsourced)	07-02-2021
25	Biraj Biswas,9th	Cleaner (Outsourced)	07-02-2021
26	Pranjal Das, 9th	Cleaner (Outsourced)	07-02-2021
27	Suna Das, 9th	Cleaner (Outsourced)	07-02-2021
28	Kalyan Buragohain, H. S	Cleaner (Outsourced)	01-04-2022
29	Siddartha Chetia, H.S.L.C	Plumber (Outsourced)	02.09.2024
30	Basudev Das, H.S.L.C	Electrician (Outsourced)	02.09.2024
31	Saurabh Mahatu, H. S	Cleaner (Outsourced)	02.09.2024
32	Sundeep Gogoi, H. S	Cleaner (Outsourced)	02.09.2024
33	Rupjyoti Chetia, H. S.L.C	Cleaner (Outsourced)	02.09.2024
34	Manash Jyoti Sarma, H. S	Cleaner (Outsourced)	02.09.2024
35	Juri Borah, H. S.L.C	Cleaner (Outsourced)	02.09.2024
36	Chandan Singh, 9th	Cleaner (Outsourced)	02.09.2024

Short-term courses/workshops/seminars/symposia/conferences organised by faculty members:

S. No.	Cordinator	Title	Period
1	Ms. Ananya Borah & Dr. Nilambar Bariha	Modular Course on "Safety in Drilling Operations"	17th August 2025 -25th August 2025
2	Dr. Karthik Babu NB	Skill Development Program for the course Welding and Fabrication for Heavy Industries	14-18 July, 2025

Short-term courses/workshops/seminars/symposia/conferences/training programmes attended by faculty members in academic institutions and public sector undertakings:

S. No.	Name of Faculty Member	Title	Period and Venue
Seminars/Symposia/Conferences			
1	Dr. Abhimanyu Kar	GIAN course on Adsorption Techniques for CO2 Capture: Modeling and Simulation Insights	IIPE, Vishakapattanam
2	Ananya Borah	Certificate Course on ESG & Sustainability	Online Mode (January 2024-June 2024) Centre of Excellence in Occupational Health, Safety, Fire & Environment (C-OHSFE), GD Goenka University
3	Dr. Nilambar Bariha	Green Hydrogen Generation Opportunities and Challenges in India	09th Dec., 2024 to 14th Dec., 2024, School of Mechanical Engineering, Shri Mata Vaishno Devi University Katra J&K (Online mode)
4	Dr. Nilambar Bariha	Sustainable Carbon-Free Technologies for Hydrogen Generation and Storage	24th Feb. 2025 to 01st March 2025, National Institute of Technology Tiruchirappalli (Online mode)

5	Dr. Satish Kumar Tiwari	One week Faculty Development Program on Mathematical Modelling and Simulation using Python-Level 1	2-6, December, 2024 Delhi Technological University (Online)
6	Dr. Sanat Kumar Singha	Modern Algebra NPTEL Online Certification	Jul-Sep 2024, Offline Exam at Lahowal College, Dibrugarh, Assam
7	Dr. Sanat Kumar Singha	Data Base Management System NPTEL Online Certification	Jul-Sep 2024, Offline Exam at Lahowal College, Dibrugarh, Assam

Fellowships of academic and professional societies:

S. No.	Name of Faculty Member	Details of Fellowship
1	Dr. Sekhar Gogoi	Society of Petroleum Engineers (SPE) membership
2	Dr. Srawanti Medhi	Society of Petroleum Engineers (SPE) membership

Books, monographs authored/co-authored by the faculty members:

S. No.	Name of Author/Co-Author	Title	Publisher
1	Karthik Babu NB	Tribological behavior of polymeric composites for automobile applications	Woodhead Publishing Series in Composites Science and Engineering

Faculty members on the Editorial boards of journals:

S. No.	Name of Faculty Member	Position (Editor/ member)	Name of Journal
1	Dr. Sabyasachi Pramanik	Review Editor	The Editorial Board of Chemical Sensors (specialty section of Frontiers in Sensors) Journal

PhD Supervision

S. No.	Name of Faculty	Name of Student & Year of Registration	Regular / Part-time	Internal / External	Supervisor / Co-supervisor
1	Dr. Bhaskor Jyoti Bora	Akshay Jain & 2020	Regular		Supervisor
2	Dr. Nilambar Bariha	V.S. Vivek & 2023	Regular	External	Supervisor
3	Dr. NIMISHA RAGHUVANSHI	Mr. Rotish Sarkar, 2023	Regular	Internal	Supervisor
4	Dr. Satish Kumar Tiwari	Ms. Poulomi Basak, Year of Registration: 2022	Regular	Internal	Supervisor
5	Dr. Sabyasachi Pramanik	Farhin Akhtar Year of Registration - 2023	Regular		Supervisor

6	Dr. Satyajit Chowdhury	Mr. Sariful Mehboob Hassan, 2024	Part-time		Supervisor
7	Dr. Bhaskar Jyoti Medhi	Mr. Prasenjit Barman	Part time	External	Supervisor
8	Dr. Bhaskar Jyoti Medhi	Mr. Iftiquer Moiz	Part time	External	Co-Supervisor
9	Dr. Bhaskar Jyoti Medhi	Ramanan Chidambaram Jayaraj, Curtin University, Malaysia	Full time	External	Associate Supervisor
10	Dr. Santosh Kumar Verma	Gaurav Kumar, 2022	Regular	Internal	Supervisor
11	Dr. Srawanti Medhi	Md. Sameer, 2022 Mr. Rathindra Prasad Kakati, 2022 Mr. Iftiquer Moiz, 2023	Part time	External	Supervisor
12	Dr. Srawanti Medhi	Mr. Sariful Mehboob Hassan, 2024	Part-time		Co-Supervisor
13	Dr. Chinmoy Jit Sarma	Himanshu Kumar, 2024 Animesh Sarma Tamuly, 2024	Part time	External	Supervisor
14	Dr. Sanat Kumar Singha	Aparajita Baruah, 2024	Full time		Supervisor
15	Dr. Karthik Babu NB	Mr. Tamilarasan C & July 2024, Mr. Paramasamy P & July 2025	Full time	External	Supervisor
16	Dr. Arun Kumar	Rohit Raman, 2025	Part time	External	Supervisor
17	Dr. Anil Kumar Varma	Rohit Raman, 2025	Part time	External	Co-Supervisor

Details of Journals

Sl. No.	Name of Faculty	Details
1	Dr. Karthik Babu NB	1. Ramesh, T., Karthik Babu NB., NS, B., Kannan, A. R., & Mohan, D. G. (2024). Prediction of formability and effects of process parameters on the adhesively bonded composite metallic sheets. *Journal of Adhesion Science and Technology*, *38*(9), 1378-1394. 2. PadeepRaja, C., Karthik Babu, N.B. (2024). Progress in the Optimization of Compositional Design and Thermomechanical Processing of Metastable β Ti Alloys for Biomedical Applications. ACS Biomaterials Science & Engineering. 3. Rajendran, S., Palani, G., Karthik Babu, N. B., Veerasimman, A. P., Yang, Y. L., & Shanmugam, V. (2024). Solid particle erosion in fibre composites: A review. *Journal of Reinforced Plastics and Composites*, 07316844241255007. 4. Shanmugam, V., Babu, K., Kannan, G., Mensah, R. A., Samantaray, S. K., & Das, O. (2024). The thermal properties of FDM printed polymeric materials: A review. *Polymer degradation and stability*, *228*, 110902. 5. Babu, N. K., Vignesh, V., Balasubramanian, K. A., Khan, A., Hashem, M., & Fouad, H. (2024). Effect of natural hybrid fillers reinforced vinyl ester composites on mechanical and physical properties. *Materials Research Express*, *11*(10), 105504. 6. Rajendran, S., Yang, Y. L., Marimuthu, U., Veerasimman, A., Palani, G.,

		Babu, K., & Shanmugam, V. (2025). Thrust Force and Delamination Analysis on Redmud-filled Coconut Sheath Fiber Polyester Composite. *Mechanics of Advanced Composite Structures*, *12*(1), 43-52. 7. NB, Karthik Babu., Balaji, N. S., & Saikiran, A. (2025). Effect of Nutrient-Based Alloying Elements on Biodegradable Magnesium Alloys: Evolution, Challenges, and Strategies for Orthopaedic Applications. *Biomedical Engineering Advances*, 100161. 8. Vignesh V., & Karthik Babu NB. (2025). Development of Hybrid Fiber-Reinforced Vinyl Ester Composites for Civil and Automotive. Scientific Reports (Accepted)
2	Dr. Satish Kumar Tiwari	1. Basak, P., Tiwari S. K., Tripathi, J. P., Tiwari, V., Mishra, R. K.(2024). Plankton interaction model: Effect of prey refuge and harvesting. *Computational and Mathematical Biophysics,* 12(1), 20240011, 1-12. 2. Tripathi, D., Tripathi, J. P., Tiwari, S. K., Jana, D., Hou, L. F., Shi , Y., Sun, G Q., Tiwari, V., Asamoah, J. K K (2024). Modified Holling Tanner diffusive and non-diffusive predator–prey models: The impact of prey refuge and fear effect. *Results in Physics*, 65(2024), 107995, 1-17. 3. Tripathi, J. P., Bhuria, S., Yadav, S., Tiwari, S. K., Tripathi, D., Tiwari, V. (2025). Dynamics of a Prey-Predator Model: Untangling the Role of Fear-Induced Allee Effect, Prey Refuge, and Group Defense. *Journal of Biological Systems*, 33(1), 143-194. 4. Upadhyay, R.K., Kumari, S., Mondal, B. and Tiwari, S.K. (2025). Cross-diffusive pattern formation and Hopf-bifurcation analysis of two species plankton interaction model. *Indian Journal of Pure and Applied Mathematics*, 2025, 1-27. 5. Yadav, S., Tripathi, J.P., Bhuria, S., Tiwari, S.K., Tripathi, D., Tiwari, V., Upadhyay, R.K. and Kang, Y. (2025). Ecological system with fear induced group defense and prey refuge. *Differential Equations and Dynamical Systems*, 2025, 1-48.
3	Dr. Sanat Kumar Singha	1. Chatterjee, S., Ghosh, S., Vadakkayil, N., Paul, T., Singha, S.K., and Das, S.K. (2024). Mpemba effect in pure spin systems: A universal picture of the role of spatial correlations at initial states. *Physical Review E*, 110, L012103. [Published 25-Jul-24]
4	Dr. Satyajit Chowdhury	Chowdhury, S., Singh, R., Shrivastava, S. K., & Sangwai, J. S. (2023). Biodiesel Production: Advance Techniques and Future Prospective. Renewable Energy Innovations: Biofuels, Solar, and Other Technologies, 205. Dehury, R., Chowdhury, S., & Sangwai, J. S. (2024). Dynamics of hydrogen storage in subsurface saline aquifers: A computational and experimental pore-scale displacement study. International Journal of Hydrogen Energy, 69, 817-836. Medhi, S., Chowdhury, S., Dehury, R., Khaklari, G. H., Puzari, S., Bharadwaj, J., ... & Sangwai, J. S. (2024). Comprehensive review on the recent advancements in nanoparticle-based drilling fluids: properties, performance, and perspectives. Energy & Fuels, 38(15), 13455-13513.
5	Dr. Srawanti Medhi	Medhi, S., Chowdhury, S., Dehury, R., Khaklari, G. H., Puzari, S., Bharadwaj, J., ... & Sangwai, J. S. (2024). Comprehensive review on the recent advancements in nanoparticle-based drilling fluids: properties, performance, and perspectives. Energy & Fuels, 38(15), 13455-13513.

Design and Development Activities

Patents filed:

S. No.	Name of Faculty Member	Title of Patent
1	Dr. Karthik Babu NB	VERTICAL AXIS WIND TURBINE WITH SOLAR PANEL

Research and Consultancy

Sponsored research projects

S. No.	Title	Period	Funding Agency	Amount (in lakhs of Rs.)	Co- ordinator
1	Carbon Black and Ion-Functionalised Fillers Reinforced High Conductivity Polymer Nanocomposites: An Investigation Through Various Additive Manufacturing Techniques	24 months (March 2024 to March 2026)	DST-CRG	28,00,000/-	Dr. Karthik Babu NB
2	Development of a kinetic and deployable dual-use living space for low income living and working environment	24 months (2025-2027)	DST-TDP	19,01,300/-	Dr. Abhimanyu Kar

Research Publications:

Dr. Karthik Babu NB

1. Ramesh, T., Karthik Babu NB., NS, B., Kannan, A. R., & Mohan, D. G. (2024). Prediction of formability and effects of process parameters on the adhesively bonded composite metallic sheets. *Journal of Adhesion Science and Technology*, *38*(9), 1378-1394.
3. PadeepRaja, C., Karthik Babu, N.B. (2024). Progress in the Optimization of Compositional Design and Thermomechanical Processing of Metastable β Ti Alloys for Biomedical Applications. ACS Biomaterials Science & Engineering.
4. Rajendran, S., Palani, G., Karthik Babu, N. B., Veerasimman, A. P., Yang, Y. L., & Shanmugam, V. (2024). Solid particle erosion in fibre composites: A review. *Journal of Reinforced Plastics and Composites*, 07316844241255007.
5. Shanmugam, V., Babu, K., Kannan, G., Mensah, R. A., Samantaray, S. K., & Das, O. (2024). The thermal properties of FDM printed polymeric materials: A review. *Polymer degradation and stability*, *228*, 110902.
6. Babu, N. K., Vignesh, V., Balasubramanian, K. A., Khan, A., Hashem, M., & Fouad, H. (2024). Effect of natural hybrid fillers reinforced vinyl ester composites on mechanical and physical properties. *Materials Research Express*, *11*(10), 105504.
7. Rajendran, S., Yang, Y. L., Marimuthu, U., Veerasimman, A., Palani, G., Babu, K., & Shanmugam, V. (2025). Thrust Force and Delamination Analysis on Redmud-filled Coconut Sheath Fiber Polyester Composite. *Mechanics of Advanced Composite Structures*, *12*(1), 43-52.
8. NB, Karthik Babu., Balaji, N. S., & Saikiran, A. (2025). Effect of Nutrient-Based Alloying Elements on Biodegradable Magnesium Alloys: Evolution, Challenges, and Strategies for Orthopaedic Applications. *Biomedical Engineering Advances*, 100161.
9. Vignesh V., & Karthik Babu NB. (2025). Development of Hybrid Fiber-Reinforced Vinyl Ester Composites for Civil and Automotive. Scientific Reports (Accepted)

Dr. Satish Kumar Tiwari

1. Basak, P., **Tiwari S. K.,** Tripathi, J. P., Tiwari, V., Mishra, R. K.(2024). Plankton interaction model: Effect of prey refuge and harvesting. *Computational and Mathematical Biophysics,* 12(1), 20240011, 1-12.
2. Tripathi, D., Tripathi, J. P., **Tiwari, S. K.,** Jana, D., Hou, L. F., Shi , Y., Sun, G Q., Tiwari, V., Asamoah, J. K K (2024). Modified Holling Tanner diffusive and non-diffusive predator–prey models: The impact of prey refuge and fear effect. *Results in Physics*, 65(2024), 107995, 1-17.
3. Tripathi, J. P., Bhuria, S., Yadav, S., **Tiwari, S. K.,** Tripathi, D., Tiwari, V. (2025). Dynamics of a Prey-Predator Model: Untangling the Role of Fear-Induced Allee Effect, Prey Refuge, and Group Defense. *Journal of Biological Systems*, 33(1), 143-194.
4. Upadhyay, R.K., Kumari, S., Mondal, B. and **Tiwari, S.K.** (2025). Cross-diffusive pattern formation and Hopf-bifurcation analysis of two species plankton interaction model. *Indian Journal of Pure and Applied Mathematics*, 2025, 1-27.
5. Yadav, S., Tripathi, J.P., Bhuria, S., **Tiwari, S.K.,** Tripathi, D., Tiwari, V., Upadhyay, R.K. and Kang, Y. (2025). Ecological system with fear induced group defense and prey refuge. *Differential Equations and Dynamical Systems*, 2025, 1-48.

Dr. Sanat Kumar Singha

1. Chatterjee, S., Ghosh, S., Vadakkayil, N., Paul, T., **Singha, S.K.**, and Das, S.K. (2024). Mpemba effect in pure spin systems: A universal picture of the role of spatial correlations at initial states. *Physical Review E*, 110, L012103. [Published 25-Jul-24]

Dr. Satyajit Chowdhury

1. **Chowdhury, S**., Singh, R., Shrivastava, S. K., & Sangwai, J. S. (2023). Biodiesel Production: Advance Techniques and Future Prospective. Renewable Energy Innovations: Biofuels, Solar, and Other Technologies, 205.
2. Dehury, R., **Chowdhury, S**., & Sangwai, J. S. (2024). Dynamics of hydrogen storage in subsurface saline aquifers: A computational and experimental pore-scale displacement study. International Journal of Hydrogen Energy, 69, 817-836.
3. Medhi, S., **Chowdhury, S**., Dehury, R., Khaklari, G. H., Puzari, S., Bharadwaj, J., & Sangwai, J. S. (2024). Comprehensive review on the recent advancements in nanoparticle-based drilling fluids: properties, performance, and perspectives. Energy & Fuels, 38(15), 13455-

Dr. Srawanti Medhi

1. Medhi, S., Chowdhury, S., Dehury, R., Khaklari, G. H., Puzari, S., Bharadwaj, J., ... & Sangwai, J. S. (2024). Comprehensive review on the recent advancements in nanoparticle-based drilling fluids: properties, performance, and perspectives. Energy & Fuels, 38(15), 13455-13513.

Activities by Student Welfare and Grievance Cell

Student activities at RGIPT Sivasagar

GyanArpan

GyanArpan is a noble initiative by the institute aimed at promoting education and providing social support to underprivileged children in nearby villages. The activities run throughout the year on

weekends. The program hosts interactive events on weekends, featuring healthy competitions with a small gift and campus visits for local school children. To expand the reach of GyanArpan, volunteers actively engaged with additional schools and teachers in Sivasagar, fostering connections to include more institutions in this initiative. During these events, the volunteers share their knowledge and experiences, inspiring the children to explore science and engineering fields and broadening their perspectives. The initiative also creates opportunities for meaningful mentorship, allowing volunteers to guide, advise, and motivate young minds, encouraging them to dream big and pursue their goals.

Expert Session: "Artificial Intelligence and Machine Learning: Transforming the Future

An expert talk on "Artificial Intelligence and Machine Learning: Transforming the Future" was organized at RGIPT Sivasagar Campus on April 9, 2025. The session was led by Dr. Manoj Kumar Sarma, an eminent expert in the field of Artificial Intelligence and Machine Learning. Dr. Sarma shared valuable insights on the rapid advancements in AI and ML technologies and their wide-ranging applications in various industries. He also discussed the ethical implications, challenges, and opportunities these technologies present for future engineers and researchers. The session received an enthusiastic response from students and faculty members, who actively interacted with the speaker during the Q&A session. The event proved to be highly informative and inspiring, encouraging participants to explore the potential of AI and ML in their academic and professional pursuits.





Sports Week: Krida Oorja 2025

The institute's annual sports fest, Krida Oorja 2025, was held on February 15-16, 2025, with the objective of promoting physical fitness, teamwork, and a spirit of healthy competition among students. The event brought together enthusiastic participants from all batches, competing in a wide range of indoor and outdoor sports, including football, cricket, volleyball, badminton, chess, carrom, tug of war, and kabaddi. The campus came alive with energy and sportsmanship as students demonstrated skill, determination, and mutual respect throughout the competitions. The fest successfully fostered a strong sense of unity, camaraderie, and institute pride. The closing ceremony recognized the winners and outstanding performers with medals and trophies, celebrating their dedication and achievements.

Technical & Cultural Fest: Xiworong'24

The RGIPT, Sivasagar Campus' annual techno-cultural fest, XIWORONG'24, was a vibrant three-day extravaganza held from November 8 to 10, 2024. This event provided a remarkable platform for young talents to showcase their skills and passion to a wider and more enthusiastic audience. The fest offered a rich blend of technical and cultural events, including workshops, exhibitions, seminars by dignitaries, as well as dance and singing competitions. For the first time in the

northeastern region, AEI hosted a 3-pound category Robo war, adding a unique highlight to the event. With over 65 events on the roster—comprising 10 technical competitions, 7 cultural contests, and 14 art and literature activities—the festival boasted a total prize pool of ₹1.5 lakh. Daytime activities featured technical exhibitions and competitions like science exhibitions, chemical car, Best from Waste, craft displays, drone workshops, and oral and poster presentations. Evenings were a celebration of creativity and talent, with music, dance, and fashion performances uniting participants from across Assam, making XIWORONG'24 a memorable and inspiring event.

Universal Brotherhood Day

The Universal Brotherhood Day was observed on 11th September 2024 at RGUPT, Sivasagar Campus, in collaboration with Vivekananda Kendra Vidyalaya, Sivasagar. The session began at 11:00 AM with a welcome address, setting a thoughtful tone for the event. The program featured an inspiring talk by Dr. Soumitra Puzari, who delivered a thought-provoking speech emphasizing the significance of universal brotherhood and the timeless teachings of Swami Vivekananda. Dr. Puzari highlighted the relevance of these ideals in today's world and urged the youth to uphold the values of unity, compassion, and service to the nation. The event successfully fulfilled its objective of inspiring students by focusing on the values of our motherland and fostering a sense of national pride and social responsibility among the participants.

Awareness Programme: Mental Health and Physical Health

A student health awareness program was held on August 20, 2024, emphasizing the significance of adopting a healthy lifestyle to enhance academic performance. The event featured Dr. KSV Surya Prakash, a renowned neurosurgeon from Su-Ka-Pha Multispeciality Hospital, Sivasagar, as the keynote speaker. His insightful lecture and practical demonstrations were highly appreciated and proved invaluable for the students.

Mental health is just as crucial as physical health for leading a fulfilling life and becoming a well-rounded individual. Recognizing this, the Student Welfare Council organized a mental health awareness program titled Mind Control on 28-30th July 2024 to highlight the importance of addressing mental health concerns among students. The program featured a spiritual speaker from a Guwahati-based association, who conducted two engaging sessions on mind control techniques to promote mental well-being. The enthusiastic participation of students and their thoughtful questions about mental health made the event a resounding success.

Chapter-22
Energy Institute Bengaluru

Year of Establishment: 2018
Incharge of the Centre: Dr. Arjun Deo w.e.f. 30th September 2020

Brief Introduction of the Department/Centre

Ministry of Petroleum and Natural Gas (MoPNG), Government of India has made an initiative to spread technological based advancements through Rajiv Gandhi Institute of Petroleum Technology (RGIPT) approved by the act of parliament (RGIPT Act 2007). Under this privileged guidance and association, Energy Institute, Bengaluru (EIB), Centre of Rajiv Gandhi Institute of Petroleum Technology is operating since 2018 in transit campus in Bengaluru. For establishing the Institute, a widespread land of 150 acres has been allotted to RGIPT by Government of Karnataka in Kambalipura, Hoskote Taluk in Bengaluru.

EIB is envisioned to be a distinguished academic and research institute offering realistic cutting-edge academic and research programmes in the domain of energy. It strives to ignite young minds inculcating the required technical expertise. EIB intends to drive societal growth through research and development activities, energy innovation and entrepreneurship. The Institute aims in conducting leading-edge industrial, technological, and fundamental research in the field of energy; Offer quality education to students; offer shot-term training course to Industrial professionals in the field of energy. The Institute is also aiming to create an Energy Experience Centre, Incubation Cell /E-Cell, Office of licensing and commercialization to facilitate immersive experience of energy technologies.

Major areas of Research

- **Solar Photovoltaic**
  - Solar Cell Modelling and Fabrication
  - Solar PV Grid Integration and optimisation
  - Smart Grid / Micro-grid
- **Solar Thermal**
  - Revamped design of non-concentrating collectors
  - Concentrating Solar Plants
  - Solar water heating and dryer
- **E-Mobility**
  - Electric and Hybrid Power train design modelling and optimisation
  - Range Extension of hybrid vehicles
  - Battery Management system with revamped thermal design

- **Digitalisation in Energy Sector**
  - Machine learning
  - Deep learning
  - Computational Intelligence
  - Artificial Intelligence
  - IoT / IIoT/ Digital twin

Infrastructure

S. No.	Particulars	Number
1	No. of Classrooms	09
2	No. of Lecture Halls /Seminar Hall	01
3	No. of Laboratory (RE / EVT)	02
4	No. of Computers available for students in the Department/Centre/ Centre	100

Unique Achievement / Preposition of the Department/Centre

Energy Institute Bengaluru aims to offer qualitative academic programmes and research solutions that align with the Government Missions and Industrial needs. Academic Programmes of National Interest like Renewable Energy and Electric Vehicle Technology are currently offered. The thrust areas of research include Solar PV /Thermal, Electric Vehicle Technology and Digitalization in Energy Sector. The Centre has made significant progresses in advancing knowledge through productive publications by faculty.

Academic Programmes offered

List of Programmes offered by the Department

S.No	List of Programmes offered by the Department
1	M.Tech Renewable Energy
2	M.Tech Electric Vehicle Technology

Students on Roll

S. No.	Programme	I Year	II Year	III Year	IV Year	V Year & above
1	M. Tech/ M. Pharm	06	08	NA	NA	-
2	Ph. D (Under Institute Fellowship)	NA	NA	NA	03	03

Names of students/scholars who attended conferences/workshops/seminars and symposia abroad or in India

S. No.	Name of Student	Roll No.	Conference/Seminar/Symposia/Workshop	Date & Venue	Financial Assistance From
ÌNDIA					
1	Alisha Das	20EB0002	Atal FDP -" AI- empowered Electric Vehicle in Smart Grid System: Challenges and Opportunities "	10/02/2025 to 15/02/2025 online	Self

2	Almas	20EB0003	Developments and Innovations in Solar Photovoltaic / Floating PV with its applications in Green Hydrogen Production and Electric Vehicle: Assisted with Hands on Training	16/05/2024 to 17/05/2024 At Energy Institute Bengaluru	Self
3	Pavan Darbha	23EB1RE02	Conference on Sustainable Development of Energy, Water and Environment Systems 2025 (Online)	26/05/2025 to 30/05/ 2025 online	Self
ABROAD					
1	Anitesh Anand	21EB0002	EMRS (European Materials Research Society) Spring 2025	26/05/2025-30/05/2025 France	ANRF

Faculty & their Activity

Faculty and their areas of specialisation:

S. No.	Name, Qualifications, Employee No.	Date of award of PhD Degree	Date of Joining in the Department	Major Areas of Specialization (Max. 3)
ASSISTANT PROFESSORS				
1	Dr. Arjun Deo, Ph.D. Emp: 0200	3rd November, 2018	21st September 2018	1)Photovoltaic/Thermal Systems 2) Micro-grid/Smart Grid 3) Electric and Hybrid Vehicle
2	Dr. Roopa Manjunatha, Ph.D. Emp: 0203	24th June, 2014	11th October 2018	1) Instrumentation & Control 2) Wearable Devices 3) Automotive Safety
3	Dr. Hakeem Niyas. U.S, Ph.D. Emp: 0205	15th September, 2017	15th October 2018	1) Thermal Energy Storage 2) Thermal Management of Batteries and Buildings 3) Solar Thermal
4	Dr Debasis De, Ph.D, Emp: 0208	19th January, 2012	1st November 2018	1) Fabrication of solar cells 2) Photo/Electrocatalyst for water electrolysis 3) Energy materials
5	Dr. Sivasankari S, Ph.D. Emp: 0209	31st July, 2016	5th December 2018	1) Solar photovoltaic /Thermal 2) Smart grid /Micro grid 3) Electric and Hybrid Vehicles
6	Dr. Chandrakant, Ph.D. Emp: 0297	26th August, 2021	7th November 2022	1) Statistical Inference 2) Reliability Analysis 3) Censored lifetime analysis
7	Dr.Bhagirath Sahu, Ph.D. Emp: 0304	4th December, 2018	21st June 2023	Microwave Engineering
8	Dr.Pallabi Saikia, Ph.D Emp: 0292	10th August 2020	28th July 2022 at RGIPT 1st September 2023 at EIB	Artificial Intelligence Machine Learning Multi sensor data analytics

Technical and Non-Teaching Staff

Sl. No.	Name, Qualifications	Designation, Employee No.	Date of Appointment in the department
1	Mahabaleshwar S Shetti	Superintendent-Grade I	01-11-2018
2	Raghu D J	Assistant-Grade I	01-03-2018
3	Mr. Kamal Singh	Superintendent-Grade I	13-04-2023
4	Mr. Ashwini Kumar Chaudhary	Assistant Systems Grade III	31-07-2023
5	Dayanand Shetty	Office Attendant	01-10-2021
6	Mr. Madhusudhan H.V	Assistant Engineer Civil	14-11-2024
7	Mr. Manikanta S R	Assistant Boys Hostel	15-04-2025
8	Mr. Vamsi Krishna Dasore	Technician	16-04-2025
9	Mr. Sanjay Kumar N M	Assistant (Lib. & Info.)	26-04-2025
10	Mrs. Soniya Verma	Assistant Girls Hostel	13-11-2024
11	Mr. Sudarshan Kumar	Electrician	01-11-2024

Short-term courses/workshops/seminars/symposia/conferences organised by faculty members

S. No.	Coordinator	Title	Period
1	Dr.Sivasankari Sundaram	A 2 day workshop on Developments and innovations in Solar Photovoltaic /Floating with applications in green hydrogen production and electric vehicle: assisted with hands on training	16th -17th May 2024

Short-term courses/workshops/seminars/symposia/conferences/training programmes attended by faculty members in academic institutions and public sector undertakings

S. No.	Name of Faculty Member	Title	Period and Venue
Seminars/Symposia/Conferences			
1	Dr. Roopa Manjunatha	2024 IEEE 29th Asia Pacific Conference on Communications (APCC)	05-07 November 2024, Bali, Indonesia
2	Dr. Roopa Manjunatha	2024 17th International Conference on Sensing Technology (ICST)	*9-11 December 2024, Sydney, Australia*
3	Dr. Hakeem Niyas. U.S.	Combustors for Future Energy and Propulsion Needs (ASME IGTI Webinar)	03/06/2024 (Online)
4	Dr. Hakeem Niyas. U.S.	GIAN Course on "Advances in Solar Collector Technologies"	03/03/2025 – 07/03/2025 Indian Institute of Technology Guwahati
5	Dr.Sivasankari Sundaram	IEEE 53rd Photovoltaic Specialists Conference (PVSC)	June 8-13, 2025 Canada (online)
6	Dr. Debasis De	2nd International conference on Renewable Energy Technologies and Bio Sustainability	22-24 March 2025 (online)
7	Dr. Debasis De	Global conference for Decarbonization of Energy and Materials	26-30 November 2024, Singapore

8	Dr. Bhagirath Sahu	International Conference on Electrical Electronics and Computing Technologies (ICEECT-2024)	Sharda School of Engineering and Technology, Sharda University, Greater Noida, India 29-08-2024 to 31-08-2024
9	Dr. Bhagirath Sahu	IEEE Microwave, Antennas and Propagation Conference (MAPCON-2024)	Hyderabad, India 09-12-2024 to 13-12-2024
10	Dr. Bhagirath Sahu	One week Workshop on "Wireless Power Transfer: Concepts to Applications"	Department of Electronics and Communication Engineering, Ramaiah Institute of Technology from 30th June to 4th July 2025
11	Dr. Chandrakant	Data Science and Statistical Analysis through R and Python Software 2.0	May 29-June 2, 2024, SVNIT Surat
Meetings			
1	Dr. Roopa Manjunatha	Research Collaboration	21 st July 2024, DRDO (DIA-RCOE) IISc, Bengaluru
2	Dr. Roopa Manjunatha	Research Collaboration	08 th Dec 2024, Prof. Hardik Jeetendra Pandya Laboratory, IISc, Bengaluru
3	Dr. Hakeem Niyas. U.S.	ASME Karnataka Professional Section Annual Meet	27/03/2025 Reva University, Bengaluru
4	Dr. Debasis De	HYD-GEN green hydrogen generation facility	9-10 April 2025, Mangalore India
5	Dr. Bhagirath Sahu	Exploring potential avenues for research collaboration, in the domain of microwave component design for airborne radar systems	Centre for Airborne Systems (CABS), Defence Research and Development Organisation (DRDO) Bangalore 02-06-2025 to 03-06-2025
6	Dr. Bhagirath Sahu	To explore the research opportunities in antenna technology	REDANT Technologies KIADB Industrial Area I Bangalore - 562149 24/06/2025

Special lectures delivered by faculty members in other institutions

S. No.	Name of faculty Member	Topic of Lecture	Institution	Date
1	Dr. Roopa Manjunatha	Session Chair	2024 IEEE 29th Asia Pacific Conference on Communications (APCC)	06 November 2024
2	Dr. Roopa Manjunatha	Session Chair	2024 17th International Conference on Sensing Technology (ICST)	10 December 2024
3	Dr. Hakeem Niyas. U.S.	AI-Driven Electrolyzer Optimization for	GH Raisoni College of Engineering and Management, Pune	May 8th 2025

		Scalable Green Hydrogen Production		
4	Dr. Chandrakant	Data Science and Statistical Analysis through R	SVNIT Surat	May 29 to June 2, 2024
5	Dr. Bhagirath Sahu	Session Chair	ICEECT-2024 organised by Sharda School of Engineering and Technology, Sharda University, Greater Noida, India	August 29th to 31st 2024

Visits abroad by faculty members

S. No.	Name of Faculty Member	Country Visited	Date of Leaving india	Date of Returning India	Purpose of Visit	Funding from
1	Dr. Roopa Manjunatha	Bali, Indonesia	04-11-2024	08-11-2024	2024 IEEE 29th Asia Pacific Conference on Communications (APCC)	RGIPT

Fellowships of academic and professional societies

S. No.	Name of Faculty Member	Details of Fellowship
1	Dr. Roopa Manjunatha	Member at Instrument Society of India IEEE Member SAE India member
2	Dr. Hakeem Niyas. U.S.	Solar Energy Society of India, Life Member, Membership ID: 2412 Indian Society for Technical Education, Life Member, Membership ID: LM 138067 Indian Society for Heat and Mass Transfer, Life Member, Membership ID: 1162 Indian Society of Heating, Refrigerating and Air-conditioning Engineers, Membership ID: 22259 International Solar Energy Society, Member American Society of Mechanical Engineers, Membership ID: 101985019 Institute of Electrical and Electronics Engineers, Member, Membership ID: 94231657
3	Dr.Sivasankari Sundaram	Life member Solar Energy Society of India Member ID:3832 International Solar Energy Society, Member
4	Dr. Bhagirath Sahu	Life Senior Member (No. 3037), Wireless Antenna & Microwave Symposium (WAMS) Society. Life Member (LM 140560), Indian Society for Technical Education (ISTE) India Member (No. 92751096), Institute of Electrical and Electronics Engineers (IEEE) U.S.A. Member (M-1808650), The Institution of Engineers (India) Member (M-504737), The Institution of Electronics & Telecommunication Engineers (IETE) Member (M- 385267), International Association of Engineers (IAENG)

Books, monographs authored/co-authored

S. No.	Name of Author/ Co- Author	Title	Publisher
1	Prajna K B, Roopa Manjunatha, Suraksha Ramesh	Transportation Safety for Smart Cities (2024)	AI and Data Engineering for Smart Cities, CRC Press,Taylor and Francis Group
2	D. Maity, Debasis De, G. G. Khan	Black Phosphorus Solution-Phase Preparation and Applications in Energy Conversion in Layered Nanomaterials for Solution-Processed Optoelectronics	CRC Press https://doi.org/10.1201/9781003509509
3	Pillai, Kalidas Parameswaran, M Mathew, H Niyas and S Sundaram.	A Comprehensive Analysis of Fuel Cell-Powered Electric Vehicles in India Through the PESTLE Framework.	IGI Global, June 2024
4	Mathew, M., Sundaram, S., & Niyas, H	Evaluation of the Political, Economic, Social, Technical, Legal, and Environmental Perspectives of Second Life Electric Vehicle Batteries in India.	IGI Global, June 2024
5	Sivasankari Sundaram, Almas and Pavan Darbha	A comprehensive review on digital initiatives fostering improvements in Solar PV system	Wiley Scrivener, May 2025

Editorial boards of journals

S. No.	Name of Faculty Member	Position (Editor/ member)	Name of Journal
1	Dr.Sivasankari Sundaram	Editorial Board Member	Journal of Next Generation Technology 2583-021X

Design and Development Activities

New facilities added

Sl. No.	Details (Infrastructure, Equipments, etc.)	Qty	Value (in Lakhs of Rupees)
Equipment			
1	Programmable DC Power Supply	05	2.83 Lakhs
2	Function Generator	05	2.93 Lakhs
3	Digital Storage Oscilloscope [DSO]	12	25.56 Lakhs
4	DC Electronic Load	01	6.96 Lakhs
5	Evaluation Board	02	0.22 Lakhs
6	MS Rollers	01	0.28 Lakhs
7	Hydraulic Power Pack	01	0.40 Lakhs
8	Hydraulic Rollers	01	0.11 Lakhs
9	3Ghz Real Time Spectrum Analyzer with Tracking	01	4.15 Lakhs
10	Design Support / Mechanical Components	01	2.52 Lakhs
Infrastructure based materials (for Mess & Gym)			
1	Mess Based Items	21	9.94 Lakhs
2	Gym based Items	20	4.96 Lakhs
3	Network Switches, Projector, Wall mount screen, Podium (Computer Peripherals)	19	5.82 Lakhs
4	Aqua guard (water cooler)	05	2.89 Lakhs
5	Voltas Water Cooler	05	2.09 Lakhs
6	5 KVA/120 VDC UPS	04	4.99 Lakhs
7	D Link 48 Port Switch	10	4.34 Lakhs

8	Network Accessories	05	0.53 Lakhs
9	TT TABLE, Carrom Board, Volley / Badminton Pole, Foot ball Brown	11	2.42 Lakhs
10	Wireless access point	12	3.84 Lakhs
11	Wifi camera with SD card	10	0.35 Lakhs
12	Mess Furniture	101	5.53 Lakhs
13	Almirah (Boys hostel)	52	7.59Lakhs
14	Furniture & fixture	1194	105.55 Lakhs
15	RO+UV Plant 500 Lph	1	3.22 Lakhs
16	Supply of L shaped holder curtain cloth hanger etc under head of fixture	795	2.68 Lakhs

Faculty members' participation with other universities under MoUs

Research Publications

S. No.		No.
1	Total Number of Papers Published in Refereed National Journals	NIL
2	Total Number of Papers Published in Refereed International Journals	22
3	Total Number of Papers Presented in National Conferences	NIL
4	Total Number of Papers Presented in International Conferences	04

Refereed International Journals

1. A. Das, P. R. Muduli and **R. Manjunatha**, QCM-Based Electronic Nose for Near-Real-Time BTEX Detection IEEE Transactions on Instrumentation and Measurement 74, (2025),1-8 https://doi.10.1109/TIM.2025.3578708.
2. A. Das, **R. Manjunatha**, K N Kumar, D De, R Bandyopadhyay. Fabrication of surface functionalized QCM sensor for BTX detection at ambient conditions. Talanta 283(2025). https://doi.org/10.1016/j.talanta.2024.127081
3. A Das, Giri, B.S. and **R. Manjunatha**. Systematic review on benzene, toluene, ethylbenzene, and xylene (BTEX) emissions; health impact assessment; and detection techniques in oil and natural gas operations. Environ Science & Pollution Research 22 (2025), 1–22 https://doi.org/10.1007/s11356-024-35698-1.
4. M.N.S. Jagirdar, G. Priyadarshi, B.K. Naik, **H. Niyas**. Implementation of adaptive neuro-fuzzy inference system in design and process optimization of latent heat storage system. Journal of Energy Storage 89 (2024) 111810. https://doi.org/10.1016/j.est.2024.111810.
5. H. Togun, H.S. Sultan Aljibori, A.M. Abed, N. Biswas, M.T. Alshamkhani, **H. Niyas**, H.I. Mohammed, F.L. Rashid, J.M. dhabab, D. Paul. A review on recent advances on improving fuel economy and performance of a fuel cell hybrid electric vehicle. International Journal of Hydrogen Energy 89 (2024) 22–47. https://doi.org/10.1016/j.ijhydene.2024.09.298.
6. M.A.H. Mithu, T.A. Tahseen, A.M. Abdulateef, **H. Niyas**. Fins-nanoparticle combination for phase change material enhancement in a triplex tube heat exchanger: A numerical approach to thermal sustainability. International Communications in Heat and Mass Transfer 159 (2024) 108199. https://doi.org/10.1016/j.icheatmasstransfer.2024.108199.
7. M.N.S. Jagirdar, S.S. Bhogilla, A. Mawire, **H. Niyas**. Recent Advancements in CSP: Evaluating High-Temperature Heat Transfer Fluids, Corrosion Prevention, and Alloy Selection

for Enhanced Energy Density. Solar Compass 14 (2025) 100118. https://doi.org/10.1016/j.solcom.2025.100118.

8. K. Shubham, M. K. Ganesha, H. Hakkeem, A. M. Chandran, A. S. Mary, A. Anand, Debasis De, D. Sarkar, G. G. Khan, and A. K. Singh, High-performance silicon-based n–i–p heterojunction photoanode for efficient photoelectrochemical water splitting: fabrication, optimization, and large-scale application, **Journal of Material Chemistry A** 13 (2025) 10844 https://doi.org/10.1039/D5TA01070E.
9. A. Anand, A Raj, D. Mondal, D. Maity, M K Ganesh, A K Singh and **Debasis De** and G G Khan, Effective Surface Engineering for Defect Passivation and Reduction of Water Oxidation Overpotential in Benchmark Two-Dimensional α-$SnWO_4$ Nanoplate Photoanodes, Advanced Functional Materials 35 (2025) 2417398, https://doi.org/10.1002/adfm.202417398.
10. V. Leela Devi, P. Kuchhal, **Debasis De**, A. Sharma, N. Kumar Shukla and M. Aggarwal, Machine Learning-Driven Optimization of Transport Layers in $MAPbI_3$ Perovskite Solar Cells for Enhanced Performance, ***IEEE Access***, 12 (2024) 179546, DOI: 10.1109/ACCESS.2024.3492378.
11. D. Sadhu, D. Dattatreya, A. Deo, K. Tarafder, and **Debasis De** Performance prediction and analysis of perovskite solar cells using machine learning, ***Journal of Alloys and compounds Communications***, 3, (2024) 100022, https://doi.org/10.1016/j.jacomc.2024.100022.
12. V. Leela Devi, **Debasis De**, P. Kuchhal, and R. K. Pachauri Photovoltaic performance of TiO_2 and ZnO nanostructures in anthocyanin dye-sensitized solar cells, ***Clean Energy***, 8 (2024) 144, https://doi.org/10.1093/ce/zkae059
13. Almas, **S Sundaram** and U.D. Dwivedi Predictive analysis of power degradation rate in solar PV systems emphasizing hot spots and visual effects-based failure modes, Renewable Energy 228 (2024), https://doi.org/10.1016/j.renene.2024.120684.
14. A Rathore, Almas and **S Sundaram** Energy, exergy and performance analysis of a 380 kWp roof-top PV plant assisted with data-driven models for energy generation, Journal of Thermal Engineering, 10 (2024) 1164-1183, 10.14744/thermal.0000859
15. Pillai, K. and **Sundaram, S**. Optimization and Feasibility Analysis of Hybrid Distributed Generator Based System with a Comparison of Battery and Hydrogen Energy Storage for Residential Electrification. Energy Storage, 6, (2024) https://doi.org/10.1002/est2.70075
16. Verma, R. P., Gupta, A., & **Sahu, B.** A Miniaturized High-Gain Circular Coaxial-Fed Radiator Filtering Antenna with Configurable Radiation Nulls for Modern 5G Applications. International Journal of Antennas and Propagation, 1, (2024), 5424401. https://doi.org/10.1155/2024/5424401
17. K. Singh, Y.M. Tripathi, **C. Lodhi**, and L. Wang. Order Restricted Inference for a Generalized Family of Inverted Exponentiated Distributions with BPTC Scheme. Sankhya B, (2025). https://doi.org/10.1007/s13571-025-00377-9
18. R. Kumari, Y.M. Tripathi, **C. Lodhi**, L. Wang. Pivotal based reliability inference for Burr-XII distribution under block progressive type-II censoring. Communications in Statistics – Simulation and Computation, (2025) 1–22, https://doi.org/10.1080/03610918.2025.2483437
19. R. Mondal, A. K. Gangopadhyay, K. Maiti and **C. Lodhi**. Reliability Inference for Power Rayleigh Distribution under Block Progressive Censoring: A Pivotal Quantity based Approach. International Journal of Reliability, Quality and Safety Engineering, (2025). 32, 2450053, https://doi.org/10.1142/S0218539324500530

20. P. Chandra, **C. Lodhi**, Y. M. Tripathi, and A. Asgharzadeh. Inference and optimal plans for a new Pareto distribution under Type-1 hybrid censoring. International Journal of Reliability, Quality and Safety Engineering, (2025), 32, https://doi.org/10.1142/S0218539325500159.
21. K. Singh, Y.M. Tripathi, **C. Lodhi**, and L. Wang. Inference for Unit Inverse Weibull Distribution Under Block Progressive Type-II Censoring. Journal of Statistical Theory and Practice (2024) 18, https://doi.org/10.1007/s42519-024-00395-2
22. **C. Lodhi**, A.K. Gangopadhyay & P. Bhattacharya. Likelihood and pivotal-based reliability inference for inverse exponentiated Rayleigh distribution under block progressive censoring. Quality Technology & Quantitative Management (2024) 22, 779–804 https://doi.org/10.1080/16843703.2024.2400435

Proceedings of International Conferences

1. **R. Manjunatha** and K. Rajanna, Calibration of Polyvinylidene Fluoride Nasal Sensor to Measure Breathing Pressure," *2024 17th International Conference on Sensing Technology (ICST)*, Sydney, Australia, pp. 1-5, doi: 10.1109/ICST62759.2024.10992085.
2. R. Suraksha and **R. Manjunatha**, Design of a Communication Protocol for a Hoverboard Mobile APP: Mobility For Smart City, 2024 IEEE 29th Asia Pacific Conference on Communications (APCC), BALI, Indonesia, 2024, pp. 435-441, doi: 10.1109/APCC62576.2024.10767942.
2. Almas, **Sundaram, S**. (2024). Degradation Assessment Through Prediction Approaches for Solar PV System in South India. Advances in Clean Energy and Sustainability, Volume 1. ICAER 2023. Green Energy and Technology. Springer, Singapore. https://doi.org/10.1007/978-981-97-5415-1_40 40
3. Dwivedy, A.P., **Sundaram, S**. (2025). Optimised Grid Integration of Solar PV and Electric Vehicle (EV): A Dynamic State-Based Energy Management Strategy. Intelligent Communication, Control and Devices. ICICCD 2024. Lecture Notes in Networks and Systems, vol 1164. Springer, Singapore. https://doi.org/10.1007/978-981-97-8329-8_5

5 Articles with maximum no. of Citations in last 5 years

1. Li, Z.R. Abdulghani, M.N. Alghamdi, K. Sharma, H. Niyas, H. Moria, A. Arsalanloo. Effect of twisted fins on the melting performance of PCM in a latent heat thermal energy storage system in vertical and horizontal orientations: Energy and exergy analysis. Applied Thermal Engineering. 219 (2023) 119489. https://doi.org/10.1016/j.applthermaleng.2022.119489. (109 Citations)

2. T. Rehman, T. Ambreen, H. Niyas, P. Kanti, H.M. Ali, C.-W. Park. Experimental investigation on the performance of RT-44HC-nickel foam-based heat sinks for thermal management of electronic gadgets, International Journal of Heat and Mass Transfer. 188 (2022) 122591. https://doi.org/10.1016/j.ijheatmasstransfer.2022.122591. (100 Citations)

3. A.M. Abdulateef, M. Jaszczur, Q. Hassan, R. Anish, H. Niyas, K. Sopian, J. Abdulateef. Enhancing the melting of phase change material using a fins–nanoparticle combination in a triplex tube heat exchanger. Journal of Energy Storage 35 (2021) 102227. https://doi.org/10.1016/j.est.2020.102227. (85 Citations)

International collaboration/achievements by the Department/Centre

Indian Faculty visits in the Department/Centre/Centre

S. No.	Name of Faculty Member	Purpose of Visit	Date and Venue
1	Dr.Abhishek Saini	For an invited guest lecture on Ultrasonic NDE	12 June 2025 Energy Institute Bengaluru
2	Dr.Ashutosh Kumar	Invited guest lecture on Designing affordable functional smart devices	22 May 2025 Energy Institute Bengaluru

Foreign Faculty Visits in the Department/Centre/Centre

S. No.	Name of Faculty Member	Purpose of Visit	Date and Venue
1	Dr.Goutam Kumar Dalapati	Invited research lecture on Renewable Energy Solutions	8th April 2025

Chapter-23
Audited Financial Report of 2024-25

Accounts for the Year 2024-25

The Audited Accounts of RGIPT for the year 2024-25 are attached as **Annexure-I.** The highlights of the Accounts are as follows:

1. Corpus Fund/Capital Fund (Schedule 1 to Balance Sheet):

Jais

The Corpus Fund of Rs 333.60 crore (which includes Rs 250 crore contributed by the promoting Oil PSUs and surplus interest ploughed back) which stands invested in Bank FDs. The interest earnings from this fund are utilized for recurring expenses and surplus is reinvested on regular basis. It has been transferred to earmarked fund Schedule-3 during 2024-25.

Assam

The Corpus Fund of Rs. 250.20 crore (which includes Rs 147.03 crore contributed by participating Oil PSUs and surplus interest ploughed back) which stands invested in Bank FDs. The interest earning has been used for recurring expenses and surplus is reinvested on regular basis. It has been transferred to earmarked fund Schedule-3 during 2024-25.

At the year end the excess of income over expenditure to the extent of the surplus interest lying invested in FDs with banks/Non-tradable Government Securities has been ploughed back to Corpus Fund as follows:

Particulars	Jais (**Rs. in lakhs**)	Assam (**Rs. in lakhs**)
From Income & Expenditure account for 2024-25	Nil	Nil

Fund towards Capital Expenditure

The status of Capital Fund received as on 31.03.2025 from Government of India and Grant from OIDB/PSU is as follows:

A. Jais Campus:

- GOI Fund of Rs. 44896 lakh was received up to 31.03.2025. During the year 2024-25 Nil transferred from Reserve Fund.
- OIDB Grant received up to 31.03.2025 amounts to Rs. 16736 lakh.

B. Assam Centre:

The Capital Fund received from PSU and OIDB as on 31.03.2025 amounted to Rs. 21558 lakh.

C. Bengaluru Centre:

The Capital Fund received from GoI as on 31.03.2025 amounted to Rs. 11633 lakh.

2. Reserve and Surplus (Schedule 2 to Balance Sheet)

General Reserve

During the year, Rs. 2870.67. lakh has been credited to General Reserve by way of transfer of the excess of income over expenditure as on 31.03.2025

3. Earmarked Funds: (Schedule 3 to Balance Sheet)

Earmarked Fund of Rs. 58435 lakh as on 31.03.2025 represents the balance available in Scholarship Fund and corpus fund which is transferred to earmarked fund from 2024-25.

4. Deferred Credit Liability (Schedule 4 to Balance Sheet)

The amount of Rs. 405 lakh as on 31.03.2025 represents the balance amount of Research Project Grants received from various agencies like Department of Science and Technology (DST), SERB, DAE, etc. for future utilization.

5. Current Liabilities & Provisions (Schedule 5 to Balance Sheet)

1. Rs. 470.72 lakh as on 31.03.2025 represents liability for unpaid bills towards revenue expenses/ bills.
2. Rs. 134.50 lakh is liability towards outstanding Statutory Dues for March 31.3.2025 payable in April 2025.
3. Includes Rs. 442.57 lakh towards refundable EMD/ Security Deposit / Retention Money and Student Alumni /Welfare Fund.
4. Based on Actuarial Valuation the accumulated provision of Rs. 1636.70 Lakh has been made towards Retirement benefits for Gratuity and Leave Encashment in current year accounts.
5. A further provision of Rs. 41.80 Lakh has been made toward balance of deposit receivable from U.P.S.I.D.C.

6. Fixed Assets (Schedule 6 to Balance Sheet)

Capital items amounting to Rs 2093.70 lakh were added during the current year which includes Buildings, Plant and Machinery, Furniture, Building Management System, Electric Equipment and other assets. The Gross Block of Fixed Assets amounted to Rs. 58625.93 lakh including land and the Net Block of Fixed Assets amounted to Rs. 42099 Lakh after deduction of Rs.16526.89 Lakh on account of depreciation during the years.

7. Capital Work in Progress (Schedule 6 to Balance Sheet)

The Capital Work in Progress as on 31.03.2025 amounted to Rs. 26870.55 Lakh which represents capital expenses of all Centers.

8. Investments (Schedule 7 and 8 to Balance Sheet)

Investments from earmarked fund of Rs. 24 lakh represents scholarship grant received from

Chevron and Rs.56050.73 invested towards corpus fund. Rs.1330.27 invested with LIC towards Gratuity and Leave encashment fund of employees.

9. Current Assets & Loans and Advances (Schedule 9 to Balance Sheet)

The Bank Balance of Rs. 30458.29 lakh as on 31.03.2025 includes the following amount

a. Rs. 22250.85 Lakh towards Fixed Deposits with various Banks and 8207.44 in saving and current accounts.

b. Loans and advances include:

- Rs. 2291.15 lakh on account of accrued interest income on investment

10. Income (Schedule 10, 11 and 12)

Total Income of Rs 9587.85 lakh includes interest earning from Fixed Deposits of Rs. 5266.33 Lakh (including accrued interest of Rs. 2291.15 lakh) and Rs. 4096.57 Lakh towards Students' Fee and Application Fee.

11. Expenditure (Schedule 13, 14 and 15)

The major head wise expenses for the year are tabulated in Schedule 13, 14 and 15 along with previous year figures as per the summary given below:

Schedule No	Expenses	2023-24 (Rs. in lakhs)	2024-25 (Rs. in lakhs)
13	Academic	934.90	966.86
14	Establishment	4032.67	4387.33
15	Other Administrative	1290.48	1278.17
Total		**6258.05**	**6632.36**

12. Audit Report on Accounts

The Finance Committee and Board of Governors in the meetings held on 26.06.2025 (78TH BoG Meeting) has considered the Accounts for the year 2024.25 The Audit Report is issued by the Principal Director, Commercial Audit & Ex-Officio Member, Audit Board II, New Delhi. **A copy of the Audit Report No. DGS(Energy)/Rep/01-139/Acs-RGIPT/2025-26/504 dated 31.10.2025 is attached in Annexure-II.**

Annexure I

ANNUAL ACCOUNTS FOR THE FINANCIAL YEAR 2024–25

Rajiv Gandhi Institute of Petroleum Technology
Jais, Amethi, Uttar Pradesh

राजीव गाँधी पेट्रोलियम प्रौद्योगिकी संस्थान, जायस, अमेठी
Rajiv Gandhi Institute of Petroleum Technology, Jais, Amethi
विधारत्नम् महद्धनम्

Rajiv Gandhi Institute of Petroleum Technology (RGIPT)

(An Institution of National Importance Established under an Act of Parliament)

Jais, Amethi, Uttar Pradesh, India

ACCOUNTS FOR THE FINANCIAL YEAR 2024-25

1. BALANCE BALANCE SHEET AS ON 31ST MARCH 2025.
2. INCOME / INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2025.
3. RECIEPT RECIEPT & PAYMENT ACCOUNTS FOR THE YEAR ENDED 31ST MARCH 2025.

Signed on. 26/06/2025

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
BALANCE SHEET AS AT 31ST MARCH' 2025

AMOUNT(₹)

CORPUS/ CAPITAL FUND AND LIABILITIES	SCHEDULE	CURRENT YEAR	PREVIOUS YEAR
CORPUS /CAPITAL FUND	1	7,82,52,95,416.46	7,85,60,63,974.06
RESERVES AND SURPLUS	2	1,34,81,66,877.99	1,13,09,35,256.94
EARMARKED / ENDOWMENT FUNDS	3	5,84,35,12,763.93	5,84,24,60,113.93
SECURED LOANS AND BORROWINGS			
UNSECURED LOANS AND BORROWINGS			
DEFERRED CREDIT LIABILITIES	4	4,05,74,375.74	3,77,63,422.94
CURRENT LIABLITITES AND PROVISIONS	5	96,50,50,021.39	90,06,17,229.04
TOTAL		16,02,25,99,455.51	15,76,78,39,996.91
ASSETS			
FIXED ASSETS	6	6,89,69,58,878.52	5,12,78,63,207.65
INVESTMENTS- FROM EARMARKED/ ENDOWMENT FUNDS	7	5,60,74,72,792.00	24,00,000.00
INVESTMENTS- OTHERS	8	13,30,27,029.09	8,36,53,229.00
CURRENT ASSETS, LOANS, ADVANCES ETC.	9	3,38,51,40,755.90	10,55,39,23,560.26
MISCELLANEOUS EXPENDITURE (TO THE EXTENT NOT WRITTEN OFF OR ADJUSTED)			-
TOTAL		16,02,25,99,455.51	15,76,78,39,996.91
SIGNIFICANT ACCOUNTING POLICIES	17	Enclosed	
CONTINGENT LIABILITIES AND NOTES ON ACCOUNTS	18	Enclosed	

ASSISTANT REGISTRAR (ACCOUNTS) **REGISTRAR** **DIRECTOR** **PRESIDENT (BOG)**

Signed on : 26/06/2025

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
INCOME AND EXPENDITURE FOR THE PERIOD/YEAR ENDED 31ST MARCH 2025

AMOUNT (₹)

INCOME		SCHEDULE	CURRENT YEAR	PREVIOUS YEAR
Income from Sales / Service			-	-
Grants / Subsidies			-	-
Fees / Subscriptions		10	**40,96,57,304.54**	34,01,50,768.00
Income from investments				
Income from Royalty, Publication			`	-
Interest Earned		11	**52,66,33,525.98**	43,84,23,116.85
Other Income		12	**2,24,94,787.17**	1,99,85,000.25
Deferred Revenue Income (Transferred From Capital Fund - Contingent Fund)			**21,69,04,038.40**	19,82,00,783.06
TOTAL - (A)			**1,17,56,89,656.09**	**99,67,59,668.16**
EXPENDITURE				
Academic Expenses		13	**9,66,86,002.80**	9,34,90,293.87
Establishment Expenses		14	**43,87,33,448.00**	40,32,67,026.00
Other Administrative Expenses		15	**12,78,17,458.45**	12,90,47,788.41
Expenditure on grants, subsidies etc.			-	-
Provision for doubtful debts			-	-
Deferred Revenue Expenses (Depreciation- corresponding to Schedule - 6)			**21,69,04,038.40**	19,82,00,783.06
TOTAL - (B)			**88,01,40,947.65**	**82,40,05,891.34**
Excess of income over expenditure for the year	C = (A-B)		**29,55,48,708.44**	17,27,53,776.82
Add : Prior Period Adjustment (Net)	(D)	16	**(84,81,591.79)**	**(14,90,74,759.71)**
Net excess of income over expenditure	(C-D)		**28,70,67,116.65**	**2,36,79,017.11**
Transfer to (From) Corpus Fund Jais			-	-
Transfer to Corpus Fund Assam			-	-
Transfer to General Reserve			**28,70,67,116.65**	2,36,79,017.11
Surplus / (Deficit) carried to Corpus / Capital Fund			-	-
Significant Accounting Policies		17	**Enclosed**	
Contingent Liabilities and Notes on Accounts		18	**Enclosed**	

ASSISTANT REGISTRAR (ACCOUNTS) **REGISTRAR** **DIRECTOR** **PRESIDENT (BOG)**

Signed on: 26/06/2025

RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
RECEIPT AND PAYMENT ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2025

AMOUNT (₹)

PREVIOUS YEAR	RECEIPTS	AMOUNT (Rs.)	AMOUNT (Rs.)	PREVIOUS YEAR	PAYMENTS	AMOUNT (Rs.)	AMOUNT (Rs.)
	OPENING BALANCES				**EXPENSES**		
	WITH SCHEDULED BANKS			8,56,99,436.16	Academic Expenses	9,43,25,920.80	
	IN SAVING ACCOUNTS			35,28,58,647.75	Establishment Expenses	39,09,58,191.00	
46,84,004.11	ICICI Bank - 000701260248	65,00,405.11		10,27,62,832.16	Administrative Expenses	12,27,90,814.25	
	Canara Bank-110068915050 (PFMS)	98,496.00		9,143.17	Prior Period Expenditure	26,43,193.42	**61,07,18,119.47**
(1,00,58,353.00)	Allahabad Bank- 50192401170	-		**52,94,86,727.24**			
-	Bank of Maharashtra-60431776441 (PFMS)	12,93,194.00			**REFUNDS / OTHER PAYMENTS**		
	HDFC Bank A/c No.-50100508749864	5,37,77,422.94		4,22,37,871.00	Utilization Of Research/Other Grants	2,92,39,491.3	
15,68,86,718.78	Allahabad Bank- 50441574197	7,47,44,538.50		1,16,08,315.00	Refunded to Students	1,11,12,030.00	
1,54,95,000.00	Bank of Baroda-37350100004760	28,40,000.00		-	Institutional Development Fund (Fund utilised)	44,21,437.00	
1,13,251.00	ICICI Bank- 000701258840	1,13,251.00		1,85,957.00	SERB Project Fund returned	-	
1,22,025.00	Indian Bank- EIB - 7290143660	1,22,025.00		12,82,64,488.00	Statutory Liab. Paid	-	
2,32,003.94	HDFC Bank- 00031110004499			-	Research Grant Refunded		
	Investment in sweep with SBI-82316 Bengaluru	1,22,88,000.00		75,49,344.00	Other Payments	47,21,515.00	
72,30,943.00	State Bank of India-31936731040	42,45,780.00		73,839.00	Imprest	49,741.00	
	Investment in sweep with SBI-82860 Jais	11,43,60,237.68		**18,99,19,814.00**			**4,95,44,214.30**
4,50,51,356.14	Bank of Baroda-59480100000001	2,66,76,171.67					
10,27,35,611.03	Bank of Baroda-59480100000382	5,67,53,757.34			**Payments**		
	SBI - 67164 (CIF)	32,664.00		2,25,06,520.73	Payment to Sundry Creditors	3,76,33,750.74	
81,113.80	Corporation Bank-520101255658060	18,765.54		2,36,93,705.03	Payment to Creditors For Others	3,35,85,122.00	
8,64,743.00	Indian Overseas Bank-125501000020082	8,88,770.00		17,65,00,000.00	Advance paid to CPWD for capital works		
	Union Bank Of India - 145522010001647 (AEI)	2,18,19,248.00		2,37,86,15,429.00	Payment for FDR	-	
21,543.00	Indian Bank-50524153041	21,729.85		-	Payment to NCCL		

Contd ...

ASSISTANT REGISTRAR (ACCOUNTS) **REGISTRAR** **DIRECTOR** **PRESIDENT (BoG)**

Signed on: 26/06/2025

... Contd

RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
RECEIPT AND PAYMENT ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2025

AMOUNT (₹)

PREVIOUS YEAR	RECEIPTS	AMOUNT (Rs.)	AMOUNT (Rs.)	PREVIOUS YEAR	PAYMENTS	AMOUNT (Rs.)	AMOUNT (Rs.)
5,74,68,745.53	State Bank of India-3478552906-2	5,57,822.00		25,07,32,633.00	Payment to Nirmithi Kendra - Bengaluru		**7,12,18,872.74**
15,520.90	RGIPT Chevron Scholarship Accounts-001914	1,61,222.90		**2,85,20,48,287.76**			
95,62,489.22	RGIPT Fee-1913	9,79,66,152.02			**ADVANCES**		
21,73,98,456.68	SBI-082316(Banglore)	(19,22,642.82)					
12,06,94,572.34	SBI-082860(Capital Account Jais)	(31,39,289.00)		**1,46,989.00**	Loans & Advances - Others	1,44,125.00	
34,07,64,175.84	SBI- 083148 (Capital Accounts Assam)	32,88,333.18					**1,44,125.00**
14,038.36	BOB-004760 (Raibareli)	14,489.27					
6,44,70,623.40	AEI Project Grant Accounts-001915	26,741.40			**FIXED ASSETS**		
35,08,619.00	Axis Bank-583120	27,50,449.00		2,14,81,381.82	CWIP Jais	30,31,87,955.00	
1,49,14,815.21	Bank of Baroda AEI Revenue Accounts-001916	16,46,699.84		-	CWIP Assam	36,50,00,000.00	
89.60	Canara Bank - 110076198882	2,495.60		23,99,369.00	CWIP Bangalore	14,72,36,997.00	
	Union Bank Of India - 145522010001648 (Jais)	15,32,116.00					
6,040.00	Cheque in hand			-	CWIP - Advances		
2,77,15,431.97	SBI RGIPT (Mess Fee) A/c-41137316469	2,67,01,620.95		8,90,03,069.26	Fixed Assets- Jais	9,88,27,350.27	
1,17,99,93,577.85		**50,61,80,666.97**		1,10,99,418.00	Fixed Assets- Assam	67,44,539.00	
				1,93,36,668.00	Fixed Assets- Bengaluru	1,39,84,173.00	**93,49,81,014.27**
	WITH SCHEDULED BANKS			**14,33,19,906.08**			
8,35,93,01,464.00	**IN DEPOSIT ACCOUNTS**	8,61,69,94,563.00					
24,00,000.00	FDR with HDFC	24,00,000.00	**9,12,55,75,229.97**				
8,36,17,01,464.00							
	GRANTS RECEIVED				**REFUNDABLE PAYMENTS**		
-	**GRANTS RECEIVED**			10,000.00	Security - Deposit Paid (Others)	-	
-	Institute Development Fund	2,25,000.00					
3,21,35,064.54	Research Grants/Other Grant	2,16,55,304.50		8,86,659.02	Retention Money Refunded	22,72,509.60	**22,72,509.60**
4,62,000.00	Scholarship Grant from Ministry of Tribal Affairs	11,96,200.00		**8,96,659.02**			
60,000.00	Scholarship received from Swami Dayanand Education Foundation	60,000.00					

Contd ...

ASSISTANT REGISTRAR (ACCOUNTS) | REGISTRAR | DIRECTOR | PRESIDENT (BoG)

Signed on: 26/06/2025

... Contd

RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
RECEIPT AND PAYMENT ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2025

AMOUNT (₹)

PREVIOUS YEAR	RECEIPTS	AMOUNT (Rs.)	AMOUNT (Rs.)	PREVIOUS YEAR	PAYMENTS	AMOUNT (Rs.)	AMOUNT (Rs.)
	Capital Fund From Oil Companies				**CLOSING BALANCES**		
5,42,937.00	Received from Bihar State Education	1,80,809.00	2,33,17,313.50		**WITH SCHEDULED BANKS**		
3,32,00,001.54					**IN SAVING ACCOUNTS**		
	INTEREST EARNED			65,00,405.11	ICICI Bank - 000701260248	19,87,489.11	
-	Interest on Bank Guarantee Invoked	-		-	Allahabad Bank - 50192401170	-	
21,37,194.00	Interest On - Capital Fund JAIS	1,21,778.00		-	HDFC Bank - 00031110004499	-	
82,43,990.00	Intt.On -Capital Fund (Assam)	5,26,40,222.92		7,47,44,538.50	Allahabad Bank - 50441574197	7,72,71,882.01	
33,05,387.00	Intt. on -Capital Fund (EIB)	4,05,57,803.89		28,40,000.00	Bank OF Baroda - 37350100004760	1,85,65,000.00	
81,12,483.85	Interest received on Saving Bank Accounts	76,47,299.00		1,13,251.00	ICICI Bank - 000701258840	1,13,251.00	
23,05,197.00	Int received on Research Grants	21,16,418.00		42,45,780.00	State Bank of India - 31936731040	1,61,93,092.00	
1,52,638.00	Intt.On FDRs -Earmarked Endowment Fund	1,72,841.00		2,66,76,171.67	Bank of Baroda - 59480100000001	99,65,333.96	
35,54,80,509.00	Interest on FDRs - Scheduled Banks	48,29,62,784.78		5,67,53,757.34	Bank of Baroda - 59480100000382	3,91,66,413.85	
1,50,86,433.00	Interest received from bank	2,64,86,018.90	**61,27,05,166.49**	18,765.54	Corporation Bank - 520101255658060	17,112.05	
39,48,23,831.85				8,88,770.00	Indian Overseas Bank-125501000020082	9,13,484.80	
	REFUNDABLE/ TRANSFERABLE RECEIPTS			21,729.85	Indian Bank-50524153041	21,729.85	
-	P.Y. Accrued Income Received	-		5,57,822.00	State Bank of India-3478552906-2	2,47,715.60	
52,08,000.00	Security Deposit From Students	54,19,000.00		1,61,222.90	Bank of Baroda Chevron Scholarship Account-001914	1,41,897.99	
5,81,000.00	Student Welfare Fund	6,03,000.00		9,79,66,152.02	Bank of Baroda Fee-1913	7,29,50,829.60	
1,27,96,300.00	Student Fee Refundable			(19,22,642.82)	SBI, Capital Account, EIB-082316 (Bengluru)	(11,87,505.00)	

Contd ...

ASSISTANT REGISTRAR (ACCOUNTS) | REGISTRAR | DIRECTOR | PRESIDENT (BoG)

Signed on: 26/06/2025

... Contd

RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
RECEIPT AND PAYMENT ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2025

AMOUNT (₹)

PREVIOUS YEAR	RECEIPTS	AMOUNT (Rs.)	AMOUNT (Rs.)	PREVIOUS YEAR	PAYMENTS	AMOUNT (Rs.)	AMOUNT (Rs.)
5,83,000.00	Allumni Membership Fund	6,03,000.00		(31,39,289.00)	SBI, Capital Account, Jais - 082860	(40,36,289.38)	
-	Staff Advance			32,88,333.18	SBI, Capital Account, AEI - 083148	68,74,808.18	
-	Retention money received			14,489.27	BOB-004760 (Raibareli)	14,15,311.44	
	Caution Money			26,741.40	AEI Project Grant Account-001915	7,128.73	
19,46,916.00	Scholarship From Director Technical Education	-		27,50,449.00	Axis Bank-583120	45,792.00	
	Other			2,67,01,620.95	SBI RGIPT (Mess Fee) A/c-41137316469	3,89,46,891.19	
22,56,645.00	Earnest Money Received	34,55,932.00	**1,00,80,932.00**	1,22,025.00	Indian Bank - EIB - 7290143660	1,22,025.00	
2,33,71,861.00				2,495.60	Canara Bank - 110076198882	2,580.60	
				-	Cheque in hand		
				16,46,699.84	Bank of Baroda AEI Revenue Accounts-001916	3,06,89,263.91	
				12,93,194.00	Bank of Maharashtra-60431776441 (PFMS)	-	
				98,496.00	Canara Bank-110068915050 (PFMS)	-	
				5,37,77,422.94	HDFC Bank A/c No.-50100508749864	76,33,609.94	
				1,22,88,000.00	Investment in sweep with SBI-82316 Bengaluru	6,02,87,579.18	
				11,43,60,237.68	Investment in sweep with SBI-82860 Jais	4,40,41,514.96	
				32,664.00	SBI - 67164 (CIF)	5,52,907.00	
				2,18,19,248.00	Union Bank Of India - 145522010001647 (AEI)	3,07,23,548.41	
			-	15,32,116.00	Union Bank Of India - 145522010001648 (Jais)	2,32,85,904.90	

Contd ...

ASSISTANT REGISTRAR (ACCOUNTS) | REGISTRAR | DIRECTOR | PRESIDENT (BoG)

Signed on: 26/06/2025

... Contd

RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
RECEIPT AND PAYMENT ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2025

AMOUNT (₹)

PREVIOUS YEAR	RECEIPTS	AMOUNT (Rs.)	AMOUNT (Rs.)	PREVIOUS YEAR	PAYMENTS	AMOUNT (Rs.)	AMOUNT (Rs.)
	REFUNDS			-	Hdfc-50100722762351 Assam Capital	21,36,805.00	
89,95,611.00	Income Tax Refund	-		-	Hdfc Fees A/C-50100722765203	94,37,906.00	
	Security deposit refund from APDCL	-		-	Indian Bank- 7753028076-Bangalore	2,68,865.00	
89,95,611.00				-	Investment In Sweep A/C- 9062	7,23,73,000.00	
	INCOMES			-	Investment In Sweep Pnb-000031	10,61,00,000.00	
32,12,22,714.44	Fees Received	36,47,53,882.00		-	Punjab National Bank-0917001200000031	14,62,37,053.00	
7,10,85,840.00	Advance fee received from students	12,64,66,583.00		-	Punjab & Sindh Bank-09581000014362	72,30,611.00	
1,15,94,918.00	Prior Period Income	-		-			-
8,80,176.07	Other Income	7,14,031.77	49,19,34,496.77	**50,61,80,666.97**			**82,07,44,542.88**
40,47,83,648.51							
	Institutional Development Fund (Other Income)						
	Institutional Development Fund (Transfer from HAL Korwa)				**WITH SCHEDULED BANKS**		
				8,61,69,94,563.00	**IN DEPOSIT ACCOUNTS**	7,83,01,57,937.00	
	Other Received			24,00,000.00	FDR with HDFC	24,00,000.00	**7,83,25,57,937.00**
3,56,16,735.00	Received from Sundry Debtors	3,91,21,486.37		**8,61,93,94,563.00**			
3,73,154.80	Security Deposit Received	2,45,677.00					
5,80,583.00	Interest on IT Refund	-					
2,37,86,15,429.00	FDR Matured	-					
20,91,686.00	Recovery of Staff Advance	26,58,184.00					
1,06,07,507.00	Recovery of Other Loans & Advances	1,45,58,534.52					
	Advance settled by India Habitat Centre						
	IDF Advance Settled						
27,000.00	Tender Fees	60,000.00					
10,503.00	Electronic Cash Ledger GST						
	Sale of old bus						
	Returned from Vendor						
	Gratuity & Leave Enacashment						
-	Contribution received from NIFTEM						-

Contd ...

ASSISTANT REGISTRAR (ACCOUNTS) | REGISTRAR | DIRECTOR | PRESIDENT (BoG)

Signed on: 26/06/2025

... Contd

RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
RECEIPT AND PAYMENT ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2025

AMOUNT (₹)

PREVIOUS YEAR	RECEIPTS	AMOUNT (Rs.)	AMOUNT (Rs.)	PREVIOUS YEAR	PAYMENTS	AMOUNT (Rs.)	AMOUNT (Rs.)
47,65,849.00	Gratuity & Leave Enacashment Contribution received from LIC	1,20,534.00					
	Leave Salary Contribution received from FSSAI						
	Service Benefits received from IIPE						
54,000.00	Receovery of License Fees from PhD students	1,53,867.00					
52,679.00	Receovery of License Fees	1,01,099.00					
4,14,000.00	Convocation Fees	3,02,500.00					
-	RTI Fees						
7,93,711.00	Income from Guest Hostel	6,58,905.00					
41,470.00	Rent recovered from Bank of Baroda, RGIPT	41,662.00					
43,810.45	Bonafide and Marksheet Verification Charges						
52,240.00	Vehicle Charges Recovered	57,690.00					
3,83,260.07	Recovery of Electricity Charges	4,88,057.64	**5,85,68,196.53**				
2,43,45,23,617.32							
	CONTRA ITEMS				**CONTRA ITEMS**		
26,37,136.00	Imprest Cash	28,00,068.00		26,37,136.00	Imprest Cash	28,00,068.00	
2,58,68,15,868.88	Bank to Bank Transfer	4,76,87,31,357.21		2,58,68,15,868.88	Bank To Bank Transfer	4,76,87,31,357.21	
31,13,71,884.00	Payment to Creditors cancel	40,63,465.00		31,13,71,884.00	Payment to creditors cancel	40,63,465.00	
-	Cheque Cancelled- Dibrugarh, Assam				Cheque Cancelled- Dibrugarh, Assam		
23,68,943.00	Cheque Cancelled- Statutory Liabilities	40,54,806.00		23,68,943.00	Cheque Cancelled- Statutory Liabilities	40,54,806.00	
-	Cancelled Cheques - NCCL				Cancelled Cheques - NCCL		
12,84,13,93,613.07	**TOTAL RECEIPTS**		**10,32,21,81,335.26**	**12,84,13,93,613.07**	**TOTAL PAYMENTS**		**10,32,21,81,335.26**

ASSISTANT REGISTRAR (ACCOUNTS) **REGISTRAR** **DIRECTOR** **PRESIDENT (BoG)**

Signed on: 26/06/2025

विधारत्नम् महद्धनम्

Rajiv Gandhi Institute of Petroleum Technology (RGIPT)

Jais, Amethi, Uttar Pradesh, India

ACCOUNTS FOR THE FINANCIAL YEAR 2024-25

SCHEDULES FORMING PART OF BALANCE SHEET AND INCOME & EXPENDITURE ACCOUNT

1.	SCHEDULE-1	CORPUS/CAPITAL FUND
2.	SCHEDULE-2	RESERVE AND SURPLUS
3.	SCHEDULE-3	EARMARKED/ENDOWMENT FUNDS
4.	SCHEDULE-4	DEFERRED CREDIT LIABILITES AND PROVISIONS
5.	SCHEDULE-5	CURRENT LIABILITIES AND PROVISIONS
6.	SCHEDULE-6	FIXED ASSETS
7.	SCHEDULE-7	INVESTMENTS FROM EARMARKED/ENDOWNMENT FUNDS
8.	SCHEDULE-8	INVESTMENTS-OTHERS
9.	SCHEDULE-9	CURRENT ASSETS, LOANS & ADVANCES ETC.
10.	SCHEDULE-10	FEES/SUBSCRIPTIONS
11.	SCHEDULE-11	INTEREST EARNED
12.	SCHEDULE-12	OTHER INCOME
13.	SCHEDULE-13	ACADEMIC EXPENSES
14.	SCHEDULE-14	ESTABLISHMENT EXPENSES
15.	SCHEDULE-15	OTHER ADMINISTRATIVE EXPENSES
16	SCHEDULE-16	PRIOR PERIOD ADJUSTMENT
17.	SCHEDULE-17	SINIFICANT ACCOUNTING POLICIES
18.	SCHEDULE-18	NOTES ON ACCOUNTS AND CONTINGENT LIABILITIES

Signed on. 26/06/2025

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2025

AMOUNT(₹)

SCHEDULE - 1 - CORPUS / CAPITAL FUND	CURRENT YEAR		PREVIOUS YEAR	
CAPITAL FUND- RGIPT				
Government of India Budgetary Support				
Balance as at the beginning of the year	4,48,96,14,173.00		4,48,74,76,979.00	
Add : Contribution during the year	-		-	
	4,48,96,14,173.00		**4,48,74,76,979.00**	
Less: Previous Year Adjustment against Capital Fund (Own Contribution)	-		-	
	4,48,96,14,173.00		**4,48,74,76,979.00**	
Capital Fund Jais (Own Contribution)				
Add : Contribution during the year	**9,28,15,676.00**		-	
	4,58,24,29,849.00		**4,48,74,76,979.00**	
Add : Interest for the year from Bank	1,21,778.00	**4,58,25,51,627.00**	21,37,194.00	**4,48,96,14,173.00**
Capital Grant from Oil Industry Development Board				
Balance as at the beginning of the year	1,67,36,41,097.00		1,67,36,41,097.00	
Add : Contribution during the year	-		-	
Add : Interest for the year from Bank	-		-	
	1,67,36,41,097.00	**1,67,36,41,097.00**	**1,67,36,41,097.00**	**1,67,36,41,097.00**

Contd ...

ASSISTANT REGISTRAR (ACCOUNTS) **REGISTRAR** **DIRECTOR** **PRESIDENT (BOG)**

Signed on: 26/06/2025

... Contd

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2025

AMOUNT(₹)

SCHEDULE - 1 - CORPUS / CAPITAL FUND	CURRENT YEAR		PREVIOUS YEAR	
CAPITAL FUND- AEI				
Balance as at the beginning of the year	2,10,32,17,174.00		2,05,61,97,775.00	
Add: Contribution during the year			-	
Add: Received from Capital Grant from Oil India Ltd			-	
Add : Interest from Bank	5,26,40,222.92	**2,15,58,57,396.92**	4,70,19,399.00	**2,10,32,17,174.00**
CAPITAL FUND- EIB				
Balance as at the beginning of the year	1,12,27,89,090.00		1,05,24,23,192.00	
Add : Contribution during the year			-	
Add : Interest for the year from Bank	4,05,57,803.89	**1,16,33,46,893.89**	7,03,65,898.00	**1,12,27,89,090.00**
TOTAL CAPITAL FUND		**9,57,53,97,014.81**		**9,38,92,61,534.00**
Less : Capital Fund Adjustment - Assam (Cost of Land & Depreciation)				
Up to previous year	2,89,85,356.52		2,13,02,709.21	
During the current year	91,18,967.52		76,82,647.31	
	3,81,04,324.04		**2,89,85,356.52**	
Less : Capital Fund Adjustment - Bengaluru (Cost of Land & Depreciation)				
Up to previous year	1,19,90,095.52		58,45,112.63	
During the current year	1,09,79,046.41		61,44,982.89	
	2,29,69,141.93		**1,19,90,095.52**	

Contd ...

ASSISTANT REGISTRAR (ACCOUNTS) | REGISTRAR | DIRECTOR | PRESIDENT (BOG)

Signed on. 26/06/2025

... Contd

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2024

AMOUNT(₹)

SCHEDULE - 1 - CORPUS / CAPITAL FUND	CURRENT YEAR		PREVIOUS YEAR	
Less : Capital Fund Adjustment - Jais (Cost of Land & Depreciation)				
Up to previous year	1,49,22,22,107.90		1,30,78,48,955.04	
During the current year	19,68,06,024.48		18,43,73,152.86	
	1,68,90,28,132.38	**1,75,01,01,598.35**	**1,49,22,22,107.90**	**1,53,31,97,559.94**
		7,82,52,95,416.46		**7,85,60,63,974.06**
CORPUS FUND				
AEI, SIVASAGAR				
Balance as at the beginning of the year	-		2,50,20,27,926.42	
Add: Transfer from Capital Fund Assam	-		-	
Add: Corpus Fund Received From Oil Companies	-			
Less: Transfer to Corpus/Earmarked Fund- AEI		-	2,50,20,27,926.42	-
RGIPT, JAIS				
Balance as at the beginning of the year				
Fund Balance	-		3,33,60,16,888.13	
Surplus Interest	-		-	
Less: Transfer to Corpus/Earmarked Fund- Jais	-		3,33,60,16,888.13	
Excess of Income over Expenditure	-		-	
	-		-	
Add: Contributions received during the year	-		-	
	-		-	
Add: Surplus Funds Allocated	-		-	
Add: Transfer from Income & Expenditure	-	-	-	-
Total		-		-
BALANCE AS AT THE YEAR END		**7,82,52,95,416.46**		**7,85,60,63,974.06**

ASSISTANT REGISTRAR (ACCOUNTS) | **REGISTRAR** | **DIRECTOR** | **PRESIDENT (BOG)**

Signed on: 26/06/2025

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2025

AMOUNT(₹)

SCHEDULE - 2 - RESERVES AND SURPLUS	CURRENT YEAR		PREVIOUS YEAR	
1. CAPITAL RESERVE				
As per last account	5,08,00,831.59		5,08,00,831.59	
Addition during the year	-		-	
Less: Deductions during the year	-	**5,08,00,831.59**	-	**5,08,00,831.59**
2. GENERAL RESERVE				
As per last account	1,05,29,86,980.35		1,02,93,07,963.24	
Less: Transfer to Institute Development Fund	-		-	
Less: Transfer to Capital Fund (Own Contribution)	9,28,15,676.00		-	
Less: Transfer to Institute Development Fund	45,959.00		-	
Less: Transfer to Depreciation Fund	-		-	
	96,01,25,345.35		**1,02,93,07,963.24**	
Add: Transfer from Contingent Fund	-		-	
Addition during the year	2,72,22,576.40		-	
Addition during the year (Excess of Income over Expenditure)	28,70,67,116.65	**1,27,44,15,038.40**	2,36,79,017.11	**1,05,29,86,980.35**
3. INSTITUTE DEVELOPMENT FUND	2,71,47,445.00			
As per last account	-		2,87,71,793.00	
Add: Mess Fee	-		-	
Add: Other Grant Overhead	-		-	
Add: Transfer from HAL Korwa	-		-	
Add: Fund Transfer to NTPC Project	-		-	
Add: Fund Transfer from Research & Development	-		-	
Add: Return of Advances given to External project	7,60,896.00		19,46,352.00	
Less : Fund Utilised	49,57,333.00	**2,29,51,008.00**	35,70,700.00	**2,71,47,445.00**
BALANCE AS AT THE YEAR END		**1,34,81,66,877.99**		**1,13,09,35,256.94**

ASSISTANT REGISTRAR (ACCOUNTS) | **REGISTRAR** | **DIRECTOR** | **PRESIDENT (BOG)**

Signed on: 26/06/2025

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2025

SCHEDULE - 3 - EARMARKED / ENDOWMENT FUND	AMOUNT(₹) CURRENT YEAR Opening Balance		AMOUNT(₹) CURRENT YEAR Receipts During the year		AMOUNT(₹) CURRENT YEAR Closing Balance		AMOUNT(₹) PREVIOUS YEAR	
1. Corpus/Endowment Fund- Jais								
Transfer from Schedule 1- Corpus/ Capital Fund Jais	3,33,60,16,888.13						3,33,60,16,888.13	
2. Corpus/Endowment Fund- Assam								
Transfer from Schedule 1- Corpus/ Capital Fund Assam	2,50,20,27,926.42	**5,83,80,44,814.55**					2,50,20,27,926.42	**5,83,80,44,814.55**
3. SCHOLARSHIP/ OTHER GRANTS								
a) Opening Balance of the Funds		44,15,299.38				-	-	42,12,078.38
b) Additions to Funds								
i. Donations/Grants:								
Bhaskar Research Ineternship			-		-		-	
Zila Kalyan Karayalaya - Saran/ Padhadhikari			-		-		-	
Bihar State Education Fin.Corp.	1,80,809.00		-		-		5,42,937.00	
Director of Technical Education	-		-		-		-	
Minsitry of Tribal Affairs	11,96,200.00		-		-		4,62,000.00	
MMVY Scholorship - MP	-		-		-		1,08,300.00	
Swami Dayanand Edu. Foundation	60,000.00		-		-		60,000.00	
ii. Prior Period Adjustments	-						-	
	14,37,009.00		-		-		**11,73,237.00**	**11,73,237.00**
Less: Refunds	-	14,37,009.00	-	-	-	-	-	
iii. Interest on Investments- On Earmarked Funds (Chevron)		1,72,841.00		-		-		1,14,587.00
iv. Interest Adjustment on Investments- On Earmarked Funds (Chevron)		-			-	-	-	-
TOTAL (a+b)		**60,25,149.38**		**0.00**		**0.00**		**54,99,902.38**

Contd ...

ASSISTANT REGISTRAR (ACCOUNTS) **REGISTRAR** **DIRECTOR** **PRESIDENT (BOG)**

... Contd

Signed on: 26/06/2025

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2025

SCHEDULE - 3 - EARMARKED / ENDOWMENT FUND	AMOUNT(₹) CURRENT YEAR Opening Balance		AMOUNT(₹) CURRENT YEAR Receipts During the year		AMOUNT(₹) CURRENT YEAR Closing Balance		AMOUNT(₹) PREVIOUS YEAR	
c) Utilisation / Expenditure towards objectives of the Funds								
i. Capital Expenditure								
ii. Revenue Expenditure								
Other Expenditure (Scholorship Distributed)								
Chevron Scholorship	-		-		-		-	
Bhaskar Research Ineternship Award	-		-		-		-	
Zila Kalyan Karayalaya - Saran/Padhadikari	-		-		-		-	
Unnat Bharat Abhiyan	-		-		-		-	
Minsitry of Tribal Affairs	3,33,200.00		-		-		4,62,000.00	
Bihar State Education Fin.Corp.	1,64,000.00		-		-		5,62,603.00	
Swami Dayanand Education Foundation	60,000.00		-		-		60,000.00	
Scholarship Grant ONGC	-		-		-		-	
Central Sector Scholarship Scheme (MOSJE)	-	5,57,200.00	-	-	-	-	-	**10,84,603.00**
TOTAL (c)		**5,57,200.00**		-		-		**10,84,603.00**
NET BALANCE OF SCHOLRSHIP AS AT THE YEAR END (a+b-c)		**54,67,949.38**		-		-		**44,15,299.38**
BALANCE OF ENDOWMENT FUND AS AT YEAR END (1+2+3)		**5,84,35,12,763.93**						**5,84,24,60,113.93**

ASSISTANT REGISTRAR (ACCOUNTS) **REGISTRAR** **DIRECTOR** **PRESIDENT (BOG)**

Signed on: 26/06/2025

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2025

AMOUNT(₹)

SCHEDULE- 4- DEFERRED CREDIT LIABILITIES	CURRENT YEAR		PREVIOUS YEAR	
Others - Research Grants - Opening Balance	3,77,63,422.94		7,21,09,570.83	
Add : Prior Period Item	16,29,202.00		-	
Add : Interest Received During the year	21,16,418.00		23,05,197.00	
Add : Received During the year	3,49,27,523.50		4,70,86,526.13	
	7,64,36,566.44		**12,15,01,293.96**	
Less : Refunded During the year	18,84,185.30		-	
Less : Utilized During the year	3,39,78,005.40	**4,05,74,375.74**	8,37,37,871.02	**3,77,63,422.94**
BALANCE GRANTS REPRESENTED BY :				
Dr. Rakesh Kumar - Council of Science & Tech.	532.00		50,730.00	
Dr. Chanchal Kundu - NBHM	-		40.00	
Dr. U. P. Ojha - SERB	-		15,456.40	
Dr. Chanchal Kundu - DAE	-		7,267.00	
Dr. U. P. Ojha - DAE	-		3,61,754.00	
Dr. Atul Sharma - DST	-		45,959.00	
Dr. Alok Kumar Singh - DST	21,601.00		21,601.00	
Dr. Susham Biswas - GEOKNO INDIA	-		94,456.00	
Dr. Chanchal Kundu - DST	-		65,574.00	
Dr. Amit Ranjan - DST	-		27,033.00	
Dr. Shivanjali Sharma - DST	-		197.00	
Dr. Tushar Sharma - DST	-		9,248.00	
Dr. Amritanshu Shukla - DST	-		2,42,388.00	
Dr. Debashis Panda - CSIR	0.12		0.12	
Niharika Pandey - DST	-		5,962.00	

Contd ...

ASSISTANT REGISTRAR (ACCOUNTS) | REGISTRAR | DIRECTOR | PRESIDENT (BOG)

... Contd

Signed on: 26/06/2025

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2025

AMOUNT(₹)

SCHEDULE- 4- DEFERRED CREDIT LIABILITIES	CURRENT YEAR		PREVIOUS YEAR	
Dr. G. K. Agrahari - DST	3,05,211.00		3,05,211.00	
Prof. A.S.K. Sinha - DST	-2,69,612.21		2,04,069.79	
Dr. P. K. Parida - Minority Affairs	9,19,585.00		10,16,185.00	
Dr. Arshad Aijaz - SERB	-		6,710.00	
Dr. G. R. Dilip - DST	-		3,33,527.77	
Dr. K.G. Biswas - CSIR	-		-11,763.00	
Dr. Arshad Aijaz - CSIR	25,959.00		28,959.00	
Prof. A.S.K. Sinha - PCRA	10,86,971.00		8,36,971.00	
Dr. Debashis Panda - SERB	4,41,306.63		3,31,506.63	
Dr. Shikha Singh - DST	-69,000.00		5,00,703.00	
Dr. U. P. Ojha - NTPC	7,96,601.00		16,44,001.00	
Scholarship - Ministry of Social Justice	41,360.00		41,360.00	
Scholarship - ONGC	60,000.00		60,000.00	
Dr. Alok Kumar Singh - AICTE	1,18,505.00		1,18,505.00	
Dr. Anirban Mukjherjee - ICSSR	4,398.00		1,023.00	
Ms. Jyoti (Ph.D) - DST	-		2,50,957.00	
Gyan Arpan Project - HAL- Korwa	50,62,431.60		63,70,431.60	
Dr. Susham Biswas - SCM	1,50,000.00		1,50,000.00	
Dr. Satish Sinha - SEG	11,814.00		11,814.00	
Dr. V.S. Sistla - CSIR	-		1,80,000.00	

Contd ...

ASSISTANT REGISTRAR (ACCOUNTS) | REGISTRAR | DIRECTOR | PRESIDENT (BOG)

... Contd

Signed on: 26/06/2025

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2025

AMOUNT(₹)

SCHEDULE- 4- DEFERRED CREDIT LIABILITIES	CURRENT YEAR		PREVIOUS YEAR	
Interest	78,96,839.00		58,97,923.00	
Dr. Milan Kumar - DSIR	14,585.60		1,03,081.60	
Dr. Tushar Sharma - ONGC	-		2,09,163.00	
Dr. Abhishek Kumar - SERB	-2,13,858.00		-37,406.00	
Dr. Shailesh Kumar - SERB	871.00		78,355.00	
Dr. Vipin Amoli - SERB	1,345.00		32,792.00	
Dr. Tathamay Basu - SERB	10,231.00		17,25,164.00	
Dr. Tushar Sharma - SERB	2,42,055.00		3,41,709.00	
Dr. Karan Malik - SERB	46,367.00		7,47,185.00	
Dr. Satish Sinha - OIL	7,56,038.00		17,13,438.00	
Dr. S. Shivsankari - SERB	4,792.00		4,792.00	
Dr. S. Kundu - SERB	-		2,10,925.00	
Dr. MD Irfan - ISM	95,559.00		95,559.00	
Dr. Amit Saxena - HPCL	33,313.00		7,06,129.00	
Dr. Alok Kumar Singh - OIL	1,162.00		7,55,162.00	
Dr. Alpesh Kumar - SERB	2,20,000.00		2,20,000.00	
Dr. S.Sivasankari	2,409.00		-	
Dr. Shivanjali Sharma - SERB	1,91,083.00		78,186.00	

Contd ...

ASSISTANT REGISTRAR (ACCOUNTS) | REGISTRAR | DIRECTOR | PRESIDENT (BOG)

... Contd

Signed on: 26/06/2025

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)

NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2025

AMOUNT(₹)

SCHEDULE- 4- DEFERRED CREDIT LIABILITIES	CURRENT YEAR		PREVIOUS YEAR	
Grant received from DAE	2,44,534.00		2,00,279.00	
DGH PROJECT	9,71,838.00		13,91,838.00	
Prasad BSN - KSCC	10,000.00		10,000.00	
Grant received from CSIR	-		1,15,292.00	
Dr. Sajal Agarwal - SERB	-		23,528.00	
Dr. Siddharth Gautam- SERB	-		13,94,717.00	
Dr. Ambrish Dubey - CST UP Workshop Grant	5,464.00		5,464.03	
P- 2308- DR. SIDHARTH GAUTAM	52,237.00		-	
P- 2401	34,54,737.00		-	
P- 2402- DR. MILAN KUMAR	11,88,000.00		-	
P- 2406 DR. MALAYA KUMAR SAHOO	20,14,786.00		-	
P- 2407- DR. DEEPAK DWIVEDI	14,88,000.00		-	
P- 2408- DR. D. PANDA	14,00,000.00		-	
P- 2410- DR. SHWETA	11,88,000.00		-	
P- 2411- DR. AMIT SAXENA	1,17,810.00		-	
P- 2412- DR. MALAYA KUMAR SAHOO	18,25,000.00		-	
P- 2414 DR. ARSHAD AIJAZ	40,00,000.00		-	
RGIPT/JAIS/CST/Dr. Saptarishi Gosh/P-2404	2,36,065.00		-	
RGIPT/JAIS/CST/K.G BISWAS/P-2405	2,86,744.00		-	
Dr. Deepak Dwivedi	2,67,566.00		-1,55,053.00	
Dr Debashish Panda	24,21,882.00		26,01,700.00	
Dr Amit Saxena	-3,15,831.00		17,81,269.00	
Dr. Rohit Bansal	-80,265.00		-80,265.00	
Dr. Satish Sinha	3,93,475.00		3,92,968.00	
Dr. Amit Saxena	-19,148.00		7,35,606.00	

Contd ...

ASSISTANT REGISTRAR (ACCOUNTS) | REGISTRAR | DIRECTOR | PRESIDENT (BOG)

... Contd

Signed on: 26/06/2025

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2025

AMOUNT(₹)

SCHEDULE- 4- DEFERRED CREDIT LIABILITIES	CURRENT YEAR		PREVIOUS YEAR	
IOCL T-2304	1,52,543.00		-	
Consultancy Project Geowing Engg.	4,80,000.00		-	
Dr. Debashih De	1.00		45,000.00	
Dr. Rohit Bansal	3,11,183.00		-	
Dr. Sajal Agarwal	3,45,024.00		-	
Dr. Jaya Srivastava	2,40,085.00		2,40,085.00	
Fellowship-Jyoti P-2104 (PFMS)	-20,000.00		-	
RGIPT/JAIS/ONGC/P-2217	-1,10,886.00		-	
Dr. Amit Kumar	15,077.00		28,51,000.00	
	4,05,74,375.74		**3,77,63,422.94**	
TOTAL		**0.00**		**0.00**
NOTE : Amounts due within one year		**0.00**		**0.00**

ASSISTANT REGISTRAR (ACCOUNTS) **REGISTRAR** **DIRECTOR** **PRESIDENT (BOG)**

Signed on: 26/06/2025

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2025

AMOUNT(₹)

SCHEDULE - 5 - CURRENT LIABILITIES & PROVISIONS	CURRENT YEAR		PREVIOUS YEAR	
A. CURRENT LIABILITIES				
1. Sundry Creditors				
a) For Goods/ Services	4,54,20,697.13		10,39,66,503.87	
b) Others	16,51,646.33	**4,70,72,343.46**	10,51,640.33	**10,50,18,144.20**
2. Advance Fees Received from Students	12,64,66,583.00	**12,64,66,583.00**	7,10,85,840.00	**7,10,85,840.00**
3. a) Statutory Liabilities	1,34,50,403.00		1,18,43,332.00	
b) Others	-	**1,34,50,403.00**	-	**1,18,43,332.00**
4. Other Current Liablities				
a) Preliminary Fund - Banglore- Opening Balance	50,00,00,000.00		50,00,00,000.00	
Received during the year	-		-	
Less (Add): Refunds	-	**50,00,00,000.00**	-	**50,00,00,000.00**
b) Alumni Fund	38,36,094.00		32,01,994.00	
c) Student Welfare Fund	1,28,96,080.00		22,06,080.00	
d) Scholarship & Stipend Payable to P.hd. Students	-		-	
e) Others	21,900.00		5,50,000.00	
f) Mess Advance from Students	3,18,56,884.34		2,76,96,486.65	
g) Faculty/ Staff	-		-	
h) B.Tech Fees Refundable	3,36,600.00		3,36,600.00	
i) Caution Money Payable	1,93,81,100.00		1,59,26,100.00	
j) Fund for AAPG Student Chapter	16,992.00		21,590.00	
k) Fellowship received from IICHE	968.00		30,968.00	
l) Funds received from Rural Development	1,74,384.00		1,74,384.00	
l) Unexplained Liabilities	16,11,184.00	**7,01,32,186.34**	-	**5,01,44,202.65**
5. Retention Money of Vendors	3,78,05,641.79		3,57,12,438.39	
6. Earnest Money Deposit/Security Deposit	64,52,297.80	**4,42,57,939.59**	46,77,953.80	**4,03,90,392.19**
TOTAL (A)		**80,13,79,455.39**		**77,84,81,911.04**

Contd ...

ASSISTANT REGISTRAR (ACCOUNTS) | REGISTRAR | DIRECTOR | PRESIDENT (BOG)

... Contd

Signed on: 26/06/2025

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2025

AMOUNT(₹)

SCHEDULE - 5 - CURRENT LIABILITIES & PROVISIONS	CURRENT YEAR		PREVIOUS YEAR	
B PROVISIONS				
1. Provision for Gratuity - JAIS	5,46,91,668.00			3,90,65,472.00
2. Provision for Leave Encashment -JAIS	8,18,18,012.00			6,50,42,544.00
3. Provision For Gratuity Assam	97,96,572.00			59,35,428.00
4. Provision For Gratuity Banglore	32,41,987.00			17,47,695.00
5. Provision For Leave Encashment Banglore	25,46,185.00			15,43,632.00
6. Provision For Leave Encashment Assam	73,96,134.00			46,20,539.00
7. Provision for Doubtful Debts (UPSIDC)	41,80,008.00			41,80,008.00
TOTAL (B)	**16,36,70,566.00**	**16,36,70,566.00**		**12,21,35,318.00**
TOTAL (A+B)	**16,36,70,566.00**	**96,50,50,021.39**		**90,06,17,229.04**

ASSISTANT REGISTRAR (ACCOUNTS) | REGISTRAR | DIRECTOR | PRESIDENT (BOG)

Signed on 26/06/2025

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2025
SCHEDULES - 6 - FIXED ASSETS

AMOUNT (₹)

DESCRIPTION	Rate of Depriciation	GROSS BLOCK				DEPRECIATION					NET BLOCK	
		COST AS AT BEGINNING OF THE YEAR	ADDITIONS DURING THE YEAR	DEDUCTIONS/ ADJ. DURING THE YEAR	COST/ AT THE YEAR-END	AS AT BEGINNING OF THE YEAR	DURING THE YEAR	Prior Period Adjustment	ON DEDUCTIONS/ ADJ. DURING THE YEAR	TOTAL UP TO THE YEAR-END	AS AT THE CURRENT YEAR-END	AS AT THE PREVIOUS YEAR-END
A. FIXED ASSETS-TANGIBLE												
1. LAND												
a) Freehold- Jais	0.00%	4,47,03,297			4,47,03,297	-	-	-		-	4,47,03,297	4,47,03,297
b) Freehold-Assam	0.00%	60,97,535			60,97,535	-	-	-	-	-	60,97,535	60,97,535
c) Lease Hold Land-Banglore	0.00%	150			150	-	-	-	-	-	150	150
		-			-		-			-	-	
2. BUILDINGS												
a) On Freehold Land-Jais	2.00%	3,73,34,67,474	40,71,170	3,52,686	3,73,71,85,958	63,44,33,786	7,47,43,719		6,915	70,91,70,591	3,02,80,15,367	3,09,90,33,688
b) On Freehold Land-Assam	2.00%	17,37,63,524			17,37,63,524	97,84,778	34,75,270		-	1,32,60,048	16,05,03,476	16,39,78,746
c) On Freehold Land-Banglore	2.00%	-	9,18,60,205	-	9,18,60,205	-	18,37,204		-	18,37,204	9,00,23,001	-
3. PLANT & MACHINERY												
a) General Equipment	5.00%	17,19,90,389			17,19,90,389	10,28,87,949	85,99,519		-	11,14,87,469	6,05,02,920	6,91,02,440
b) High Capacity Chiller Plant	5.00%	9,16,27,855			9,16,27,855	5,48,13,542	45,81,393		-	5,93,94,935	3,22,32,921	3,68,14,313
c) Lab Equipments-Jais	8.00%	63,21,69,136	5,74,94,279		68,96,63,415	15,76,72,458	5,51,73,073		-	21,28,45,532	47,68,17,884	47,44,96,678
d) Lab Equipment-Assam	8.00%	1,56,27,631	28,24,777		1,84,52,408	19,03,886	14,76,193		-	33,80,079	1,50,72,329	1,37,23,745
e) Lab Equipments-Banglore	8.00%	1,91,48,413	77,92,804		2,69,41,217	17,17,678	21,55,297		-	38,72,976	2,30,68,241	1,74,30,735
f) Fire Fighting System	5.00%	5,49,97,877			5,49,97,877	3,28,70,222	27,49,894		-	3,56,20,116	1,93,77,761	2,21,27,655
g) Telecommunication Network	5.00%	5,90,58,373			5,90,58,373	2,65,96,546	29,52,919		-	2,95,49,465	2,95,08,908	3,24,61,827
g) Building Management System	5.00%	4,68,14,361			4,68,14,361	3,49,44,034	23,40,718		-	3,72,84,752	95,29,609	1,18,70,327
4. VEHICLES	10.00%	1,57,45,818	19,70,000		1,77,15,818	1,52,40,285	17,71,582		-	1,70,11,867	7,03,950	5,05,532
		-										

Contd ...

ASSISTANT REGISTRAR (ACCOUNTS) | REGISTRAR | DIRECTOR | PRESIDENT (BOG)

26/06/2025

... Contd

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2025
SCHEDULES - 6 - FIXED ASSETS

AMOUNT (₹)

DESCRIPTION	Rate of Depreciation	GROSS BLOCK				DEPRECIATION					NET BLOCK	
		COST AS AT BEGINNING OF THE YEAR	ADDITIONS DURING THE YEAR	DEDUCTIONS/ ADJ. DURING THE YEAR	COST/ AT THE YEAR-END	AS AT BEGINNING OF THE YEAR	DURING THE YEAR	Prior Period Adjustment	ON DEDUCTIONS/ ADJ. DURING THE YEAR	TOTAL UP TO THE YEAR-END	AS AT THE CURRENT YEAR-END	AS AT THE PREVIOUS YEAR-END
5. FURNITURE , FIXTURES												
Jais	7.50%	12,65,52,095	84,76,136		13,50,28,231	6,48,94,233	1,01,27,117	-	-	7,50,21,350	6,00,06,881	6,16,57,862
Banglore	7.50%	25,51,350			25,51,350	4,62,273	1,91,351	-	-	6,53,624	18,97,726	20,89,077
Assam	7.50%	2,15,67,908	18,20,600		2,33,88,508	61,25,755	17,54,138	-	-	78,79,893	1,55,08,615	1,54,42,153
6. OFFICE EQUIPMENTS												
Jais	7.50%	38,70,930	1,26,999		39,97,929	25,88,237	2,99,845	-	-	28,88,081	11,09,848	12,82,693
Assam	7.50%	1,60,910	-		1,60,910	1,11,161	12,068	-	-	1,23,229	37,681	49,749
7. COMPUTER/ PERIPHERALS												
Jais	20.00%	12,95,26,351	1,47,95,829		14,43,22,180	12,04,67,941	1,41,69,594		-	13,46,37,535	96,84,645	90,58,410
Assam	20.00%	83,21,478	12,14,781		95,36,259	41,80,955	19,07,252	-	-	60,88,207	34,48,052	41,40,523
Banglore	20.00%	2,20,14,506	25,72,789		2,45,87,295	87,84,888	49,17,459	-	-	1,37,02,347	1,08,84,948	1,32,29,618
8. ELECTRIC EQUIPMENTS												
Jais	5.00%	20,13,01,225	55,19,323		20,68,20,548	12,08,19,893	1,03,41,027	-	-	13,11,60,920	7,56,59,628	8,04,81,332
Assam	5.00%	50,11,191	-		50,11,191	6,09,327	2,50,560	-	-	8,59,887	41,51,304	44,01,864
Banglore	5.00%	-	13,13,261		13,13,261	-	65,663	-	-	65,663	12,47,598	-
9. LIBRARY BOOKS												
Jais	10.00%	2,46,23,307	27,69,412		2,73,92,719	1,53,09,370	27,39,272	-	-	1,80,48,642	93,44,077	93,13,937
Assam	10.00%	11,17,110	8,47,005		19,64,115	4,42,750	1,96,412	-	-	6,39,161	13,24,954	6,74,360
Banglore	10.00%	28,43,569	3,95,728		32,39,297	21,78,712	3,23,930	-	-	25,02,641	7,36,655	6,64,857
10. OTHER FIXED ASSETS												
Jais	7.50%	2,02,88,175	3,45,497		2,06,33,672	66,37,316	15,47,525	-	-	81,84,841	1,24,48,831	1,36,50,859
Banglore	7.50%	-	10,19,402		10,19,402	-	76,455	-	-	76,455	9,42,947	-
Assam	7.50%	2,68,492	37,376		3,02,868	99,298	22,715	-	-	1,22,013	1,80,855	1,66,194

... Contd

ASSISTANT REGISTRAR (ACCOUNTS) | REGISTRAR | DIRECTOR | PRESIDENT (BOG)

Signed on: 26/06/2025

... Contd

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2025
SCHEDULES - 6 - FIXED ASSETS

AMOUNT (₹)

DESCRIPTION	Rate of Depreciation	GROSS BLOCK				DEPRECIATION					NET BLOCK	
		COST AS AT BEGINNING OF THE YEAR	ADDITIONS DURING THE YEAR	DEDUCTIONS/ ADJ. DURING THE YEAR	COST/ AT THE YEAR-END	AS AT BEGINNING OF THE YEAR	DURING THE YEAR	Prior Period Adjustment	ON DEDUCTIONS/ ADJ. DURING THE YEAR	TOTAL UP TO THE YEAR-END	AS AT THE CURRENT YEAR-END	AS AT THE PREVIOUS YEAR-END
11. (i) HOSTEL EQUIPMENTS-JAIS	7.50%	47,53,988	48,822	-	48,02,810	45,12,580	2,90,230	-	-	48,02,810	-	2,41,408
11. (ii) HOSTEL EQUIPMENTS-Banglore	7.50%	-	9,28,100		9,28,100	-	69,608	-	-	69,608	8,58,493	-
		-			-	-	-			-	-	
B. FIXED ASSETS - INTANGIBLE		-			-	-	-			-	-	
		-			-	-	-			-	-	
1. PATENT & COPYRIGHTS	11.11%	4,94,836	-	-	4,94,836	1,64,929	54,976	-	-	2,19,905	2,74,931	3,29,907
		-			-	-	-			-	-	
2. SOFTWARE		-			-	-	-			-	-	
Jais	40.00%	96,84,320	11,24,732		1,08,09,052	35,52,364	43,23,621		-	78,75,985	29,33,067	61,31,956
Assam	40.00%	60,900	-		60,900	16,842	24,360	-		41,202	19,698	44,058
Banglore	40.00%	33,55,198	-		33,55,198	9,68,739	13,42,079	-		23,10,819	10,44,380	23,86,459
										-		
TOTAL OF CURRENT YEAR		5,65,35,76,672	20,93,69,027	3,52,686	5,86,25,93,013	1,43,57,92,730	21,69,04,038	-	6,915	1,65,26,89,854	4,20,99,03,159	4,21,77,83,941
PREVIOUS YEAR		5,48,64,30,209	34,62,21,661	17,90,75,198	5,65,35,76,671	1,28,05,37,701	19,82,00,782	4,29,45,754.00	-	1,43,57,92,730	4,21,77,83,941	4,20,58,92,508

ASSISTANT REGISTRAR (ACCOUNTS) | REGISTRAR | DIRECTOR | PRESIDENT (BOG)

Signed on: 26/06/2025

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2025
SCHEDULES - 6 - FIXED ASSETS

AMOUNT (₹)

DESCRIPTION	GROSS BLOCK				DEPRECIATION					NET BLOCK	
	COST AS AT BEGINNING OF THE YEAR	ADDITIONS DURING THE YEAR	DEDUCTIONS/ ADJ DURING THE YEAR	COST/ AT THE YEAR-END	AS AT BEGINNING OF THE YEAR	DURING THE YEAR		ON DEDUCTIONS/ ADJ DURING THE YEAR	TOTAL UP TO THE YEAR-END	AS AT THE CURRENT YEAR-END	AS AT THE PREVIOUS YEAR-END
CAPITAL WORK-IN-PROGRESS											
A -RGIPT, JAIS PROJECT											
Amenties for Faculty Staff-Jais	-			-	-	-	-	-	-	-	-
Fixed Assets	-	7,46,904.80		7,46,904.80	-	-	-	-	-	7,46,904.80	-0.36
Lab Equipment	83,31,339.35	16,86,697.00	14,51,700.00	85,66,336.35	-	-	-	-	-	85,66,336.35	83,31,339.35
Building Under Construction	30,74,98,330.13	62,03,18,164.00	40,71,170.00	92,37,45,324.13	-	-	-	-	-	92,37,45,324.13	30,74,98,330.13
Swami Vivekanand Statue	8,85,000.00	-	-	8,85,000.00	-	-	-	-	-	8,85,000.00	8,85,000.00
TOTAL (A)	31,67,14,669.48	62,27,51,765.80	55,22,870.00	93,39,43,565.28	-	-	-	-	-	93,39,43,565.28	31,67,14,669.12
B - AEI, SIVSAGAR PROJECT							-				
Project Management Expenses				-	-	-		-	-	-	-
Project Management Fee				-	-	-	-	-	-	-	-
Civil Work In Progress	43,78,68,553.00	69,03,04,701.00		1,12,81,73,254.00	-	-	-	-	-	1,12,81,73,254.00	43,78,68,553.00
Lab Equipment				-	-	-	-	-	-	-	-
Secured Advance Against Material	-	-	-	-	-	-	-	-	-	-	-
TOTAL (B)	43,78,68,553.00	69,03,04,701.00	-	1,12,81,73,254.00	-	-	-	-	-	1,12,81,73,254.00	43,78,68,553.00
C-BANGLORE PROJECT											
Buidling under Construction	14,51,42,848.00	56,13,03,061.00	9,18,60,205.00	61,45,85,704.00	-	-	-	-	-	61,45,85,704.00	14,51,42,848.00
Banglore Management Expenses	1,03,53,196.00	-	-	1,03,53,196.00	-	-	-	-	-	1,03,53,196.00	1,03,53,196.00
TOTAL - C	15,54,96,044.00	56,13,03,061.00	9,18,60,205.00	62,49,38,900.00	-	-	-	-	-	62,49,38,900.00	15,54,96,044.00
TOTAL CWIP (A+B+C+D)	91,00,79,266.48	1,87,43,59,527.80	9,73,83,075.00	2,68,70,55,719.28	-	-	-	-	-	2,68,70,55,719.28	91,00,79,266.12
GRAND TOTAL	6,56,36,55,938.13	2,08,37,28,555.07	9,77,35,761.00	8,54,96,48,732.20	1,43,57,92,730.28	21,69,04,038.40	-	6,915.00	1,65,26,89,853.68	6,89,69,58,878.52	5,12,78,63,207.38
PREVIOUS YEAR GRAND TOTAL	6,57,37,38,668.00	37,01,02,412.00	38,01,85,042.00	6,56,36,55,938.00	1,28,05,37,701.00	19,82,00,782.00	4,29,45,754.00		1,43,57,92,730.00	5,12,78,63,207.00	5,29,32,00,867.00

ASSISTANT REGISTRAR (ACCOUNTS) | REGISTRAR | DIRECTOR | PRESIDENT (BOG)

Signed on: 26/06/2025

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2025

AMOUNT(₹)

SCHEDULE - 7- INVESTMENTS - EARMARKED/ ENDOWMENT FUND	CURRENT YEAR		PREVIOUS YEAR	
1. In Government Securities		-		-
2. Other Approved Securities		-		-
3. Shares		-		-
4. Debentures and Bonds		-		-
5. Subsidiaries and Joint Ventures		-		-
6. Fixed Deposit		-		
Fixed Deposits-Jais (Endowment)	3,03,88,26,414.00			
Fixed Deposits-Assam (Endowment)	2,56,62,46,378.00			
Other Fixed Deposit	24,00,000.00	5,60,74,72,792.00		24,00,000.00
TOTAL		**5,60,74,72,792.00**		**24,00,000.00**

AMOUNT(₹)

SCHEDULE- 8- INVESTMENTS-OTHERS	CURRENT YEAR		PREVIOUS YEAR	
1. In Government Securities (RBI Bonds- Not Marketable)		-		-
2. Other Approved Securities		-		-
3. Shares		-		-
4. Debentures and Bonds		-		-
5. Subsidiaries and Joint Ventures		-		-
6. Others		-		-
Gratuity fund With LIC-Assam	68,56,326.26		29,03,512.00	
Gratuity fund With LIC- Jais	4,36,57,863.07		2,76,68,259.00	
Gratuity fund With LIC- Bangalore	19,98,980.21		13,26,382.00	
Leave Incashment Fund With LIC- Assam	51,54,310.98		21,65,583.00	
Leave Incashment Fund With LIC- Banglore	17,79,577.56		10,33,889.00	
Leave Incashment Fund With LIC- Jais	7,35,79,971.01	**13,30,27,029.09**	4,85,55,604.00	**8,36,53,229.00**
TOTAL		**13,30,27,029.09**		**8,36,53,229.00**

ASSISTANT REGISTRAR (ACCOUNTS) **REGISTRAR** **DIRECTOR** **PRESIDENT (BOG)**

Signed on: 26/06/2025

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2025

AMOUNT(₹)

SCHEDULE - 9 -CURRENT ASSETS, LOANS & ADVANCES	CURRENT YEAR		PREVIOUS YEAR	
A. CURRENT ASSETS :				
1. Inventories				
a) Stores and Spares (Stationery Items)	5,16,083.00		47,977.00	
b) Stock of Medicine	3,19,846.80		-	
c) Stock of Civil and Electrical Materials	24,48,031.00		26,20,264.00	
d) Stock of Computer/ IT Consumables	-		47,258.00	
e) Stock of Diesel	5,69,739.00	**38,53,699.80**	2,30,402.00	**29,45,901.00**
2. Sundry Debtors				
a) Debts Outstanding for a period exceeding six months	29,82,263.75			
b) Other Debts (Receivable against Workshop/ Training Programme)	1,79,86,451.91	**2,09,68,715.66**	1,22,75,661.09	**1,22,75,661.09**
3. Cash Balances in Hand (including Cheques/Drafts and imprest)		-		
4. Bank Balances				
a) With Scheduled Bank:				
- on Current Accounts	2,47,715.60		5,57,822.00	
- on Deposit Accounts	2,22,50,85,145.00		8,61,69,94,563.00	
- on Savings Accounts	82,04,96,827.28	**3,04,58,29,687.88**	50,56,22,844.97	**9,12,31,75,229.97**
b) With Non - Scheduled Bank:	-		-	
TOTAL (A)		**3,07,06,52,103.34**		**9,13,83,96,792.06**

Contd ...

ASSISTANT REGISTRAR (ACCOUNTS) | REGISTRAR | DIRECTOR | PRESIDENT (BOG)

Signed on: 26/06/2025

... Contd

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH' 2024

AMOUNT(₹)

SCHEDULE - 9 -CURRENT ASSETS, LOANS & ADVANCES	CURRENT YEAR		PREVIOUS YEAR	
B. LOANS , ADVANCES AND OTHER ASSETS :				
1. Advances:				
a) Staff - Advance for Activity	-		-	
b) Others	-	-	1,34,579.00	**1,34,579.00**
2.Advances and other amounts recoverable in cash or in kind or for value to be received:				
a) On Capital Account	41,80,008.00		1,05,75,30,744.00	
b) Prepayments	25,57,121.60		28,31,558.52	
c) Security Deposits Paid	56,18,882.00		52,91,882.00	
d) Others	7,30,17,318.55	**8,53,73,330.15**	6,56,51,096.33	**1,13,13,05,280.85**
3.Income Accrued:				
a) On Investments from Earmarked/Endowment Funds				
b) On Investments-Others	19,69,03,558.43		27,03,96,468.00	
c) On Loans and Advances	7,83,768.00		-	
d) Others - Student Fees Due	3,14,27,995.98	**22,91,15,322.41**	1,36,90,440.35	**28,40,86,908.35**
4.Claims Receivable:		-		-
TOTAL (B)		**31,44,88,652.56**		**1,41,55,26,768.20**
TOTAL (A+B)		**3,38,51,40,755.90**		**10,55,39,23,560.26**

ASSISTANT REGISTRAR (ACCOUNTS) **REGISTRAR** **DIRECTOR** **PRESIDENT (BOG)**

Signed on: 26/06/2025

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)

NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS

SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31ST MARCH 2025

AMOUNT (₹)

SCHEDULE - 10 - FEES/SUBSCRIPTIONS	CURRENT YEAR		PREVIOUS YEAR	
1. Entrance Fees	17,77,468.00		16,13,222.00	
2. Annual Fees/ Subscription	40,78,79,836.54		33,85,37,546.00	
		40,96,57,304.54		34,01,50,768.00
TOTAL		40,96,57,304.54		34,01,50,768.00

ASSISTANT REGISTRAR (ACCOUNTS) | REGISTRAR | DIRECTOR | PRESIDENT (BOG)

Signed on: 26/06/2025

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)

NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS

SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31ST MARCH 2025

AMOUNT (₹)

SCHEDULE - 11 - INTEREST EARNED	CURRENT YEAR		PREVIOUS YEAR	
1) On Term Deposits :				
a) With Scheduled Banks	57,18,05,891.43		52,34,42,723.00	
b) With Non-Scheduled Banks	-		-	
c) With Institutions (Govt. of India Bond)	-		-	
d) Others	-	**57,18,05,891.43**	-	**52,34,42,723.00**
2) On Savings Accounts :				
a) With Scheduled Banks	84,49,045.00		82,74,121.85	
b) With Scheduled Banks in Sweep A/c	2,78,00,690.90		1,46,37,345.00	
c) With Non-Scheduled Banks	-		-	
d) With Institutions	-		-	
e) Others	-	**3,62,49,735.90**	-	**2,29,11,466.85**
		60,80,55,627.33		**54,63,54,189.85**
Less : Transfer to Capital Fund				
a) Capital Fund RGIPT, JAIS	-		-	
b) Capital Fund AEI , Sivasagar	4,93,81,988.91		3,87,75,409.00	
c) Capital Fund (Grant OIDB)			-	
d) Capital Fund EIB, Bangaluru	3,92,88,276.89		6,70,60,511.00	
e) Depreciation Fund			-	
f) Interest on Bank Guarantee Invoked-NCCL			-	
g) Earmarked Fund - Chevron Scholarship Grant	1,72,841.00		1,52,638.00	
h) Deferred Credit Liabilties - DST Grants	21,16,418.00	**9,09,59,524.80**	25,23,368.00	**10,85,11,926.00**
		51,70,96,102.52		**43,78,42,263.85**
3) On Loans:				
a) Employees/Staff	-		-	
b) Others- Interest on IT Refund	-	-	5,80,853.00	**5,80,853.00**
4) Interest on Debtors and Other Receivables:	-	-	-	-
5) Interest on Investment with LIC		95,37,423.46		
TOTAL		**52,66,33,525.98**		**43,84,23,116.85**

ASSISTANT REGISTRAR (ACCOUNTS)	REGISTRAR	DIRECTOR	PRESIDENT (BOG)

Signed on: 26/06/2025

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)

NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS

SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31ST MARCH 2025

AMOUNT (₹)

SCHEDULE - 12 - OTHER INCOME	CURRENT YEAR		PREVIOUS YEAR	
1.Profit on Sale/Disposal of Assets				
a) Owned Assets	-	-	-	-
b) Assets acquired out of grants or received free of cost	-	-	-	-
2. Export Incentives realised	-	-	-	-
3. Fees for Miscellaneous Services				
Recovery of Transport/ Vehicles running charges				
Income From Vehicles	69,480.00		25,140.00	
Recovery of Transport Charges - Academic	3,03,951.00		2,48,378.00	
Recovery of Transport Charges - Non-Academic	2,70,129.00	**6,43,560.00**	2,42,882.00	**5,16,400.00**
Recovery of Electricity charges RGIPT Jais				
Recovery Of Electricity Charges- Ph.D Students	1,22,486.00		54,389.00	
Recovery of Electricity Charges- Faculty	14,29,824.00		12,48,614.00	
Recovery of Electricity Charges- Non Faculty	7,18,370.00		5,71,763.00	
Recovery of Electricity Charges- BOB	1,19,620.33		73,843.07	
Recovery of Electricity Charges- Washermen	2,611.00		1,820.00	
Recovery of Electricity Charges- Post Office	5,097.00		3,096.00	
Recovery of Electricity Charges-SR ENTERPRISES	13,855.00		5,779.00	
Recovery of Electricity Charges- Beauty Parlour	16.00		-	
Recovery of Electricity Charges-US Bakers	46,404.31		-	
Recovery of Electricity Charges-Cafeteria	44,098.00		-	
Recovery of Electricity Charges-A to Z	1,902.76		-	
Recovery of Electricity Charges	4,65,736.00		-	
Recovery of Electricity Charges -Jaiswal Canteen	7,305.00	**29,77,325.40**	5,10,108.00	**24,69,412.07**

Contd .....

ASSISTANT REGISTRAR (ACCOUNTS) | REGISTRAR | DIRECTOR | PRESIDENT (BOG)

Signed on: 26/06/2025

.... Contd.

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31ST MARCH 2025

AMOUNT (₹)

SCHEDULE - 12 - OTHER INCOME	CURRENT YEAR		PREVIOUS YEAR	
Recovery of Medical Contribution				
Recovery of Medical Contribution Academic-RGIPT, Jais	7,37,650.00		3,34,265.00	
Recovery of Medical Contribution Non-Academic RGIPT, Jais	2,21,067.00		1,01,225.00	
Recovery of Medical Contribution Acacdemic- AEI	-		88,550.00	
Recovery of Medical Contribution (Non-Acacdemic)- AEI	3,000.00		12,125.00	
Recovery of Medical Contribution ACA-ASSAM	1,83,600.00		-	
Recovery of Medical Contribution NON-ACA-ASSAM	28,450.00		-	
Recovery of Medical Contribution EIB, Bangalore	62,400.00	**12,36,167.00**	28,636.00	**5,64,801.00**
Recovery of License Fee/Rent				
Recovery of License Fee Academic	11,69,704.00		13,47,588.00	
Recovery of License Fee Non Academic	5,81,877.00		6,38,639.00	
Recovery of License Fee- Ph.D Students	1,53,867.00		1,52,400.00	
Recovery of License Fee- S.R. Enterprises	18,929.00		12,600.00	
Recovery of Licence Fees-Jaiswal Canteen /ATOZ SHOP	9,750.00		-	
Recovery of Licence Fees- Beauty Parlour	1,630.00		-	
Recovery of Licence Fees- Cafeteria	23,000.00		-	
Recovery of Hostel Rent	13,600.00		-	
Rent from BOB	45,998.00		4,200.00	
Recovery of Licence Fees	98,250.00		1,950.00	
Recovery of Licence Fees-US Bakers	13,300.00	**21,29,905.00**	41,470.00	**21,98,847.00**

Contd .....

ASSISTANT REGISTRAR (ACCOUNTS) | REGISTRAR | DIRECTOR | PRESIDENT (BOG)

Signed on: 26/06/2025

.... Contd.

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)

NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS

SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31ST MARCH 2025

AMOUNT (₹)

SCHEDULE - 12 - OTHER INCOME	CURRENT YEAR		PREVIOUS YEAR	
4. Miscellaneous Income				
Excess Provision written Back	3,400.00		2,28,452.11	
Guest House Income	26,66,370.00		32,77,953.00	
Admission Processing fee	26,65,500.00		24,41,000.00	
Convocation Fee- AEI, Assam	1,00,500.00		2,10,000.00	
Convocation Fees- RGIPT, Jais	2,02,000.00		2,02,000.00	
Tender fees Jais	60,000.00		27,000.00	
Sponsorship Fee - Assam	2,00,000.00		1,00,000.00	
Income from Sample analysis	8,06,801.00		71,605.00	
Other income - Bangalore	13,051.00		46,955.72	
Other income - Assam	40,202.30		29,476.59	
Other Income (Grant Overhead)	53,39,260.00		32,27,095.00	
Professional Fee for Consultancy	-		6,43,382.00	
Liquidated Damages/ Penalties	20,75,649.00		26,31,922.00	
Registration fees fom Confrence/Seminars	2,33,180.00		-	
Other income and recoveries	11,01,916.47		10,98,698.76	
Bonafide, Transcript & Migration Fees From Students- Assam	-	**1,55,07,829.77**	-	**1,42,35,540.18**
TOTAL		**2,24,94,787.17**		**1,99,85,000.25**

ASSISTANT REGISTRAR (ACCOUNTS) | REGISTRAR | DIRECTOR | PRESIDENT (BOG)

Signed on: 26/06/2025

NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS

SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31ST MARCH 2025

AMOUNT (₹)

SCHEDULE - 13 - ACADEMIC EXPENSES	CURRENT YEAR		PREVIOUS YEAR	
Honorarium to Visiting Faculties	19,84,369.00		15,47,352.75	
Book Grant, e-Journal Charges, Magazines & Academic Softwares	65,27,990.80		80,29,398.12	
Convocation Expenses-Jais	19,26,284.00		15,05,048.00	
Convocation Expenses- Assam	7,24,228.00		11,03,405.00	
IIT-JEE Fees	19,47,000.00		18,00,000.00	
Student Welfare	42,21,280.00		29,41,571.00	
Scholorship & Stipend	5,74,81,414.00		5,36,11,952.00	
Workshop & Training	8,681.00		2,66,100.00	
Cultural & Sports Activities	52,06,344.00		13,66,636.00	
Repairs & Maintenance (Equipment)	36,72,984.00		59,16,754.00	
Lab Consumables	26,29,131.00		35,25,438.00	
Student Contingency/ Admission/ Orientation Expenses	29,88,149.00		17,29,999.00	
Cummulative Professional Development Allowance	44,91,534.00		34,26,215.00	
Training & Placement Exp.	8,81,703.00		86,917.00	
Research Grant - Faculty	1,95,332.00		14,80,021.00	
Seed Grant	17,99,579.00	9,66,86,002.80	51,53,487.00	9,34,90,293.87
TOTAL		**9,66,86,002.80**		**9,34,90,293.87**

ASSISTANT REGISTRAR (ACCOUNTS) | REGISTRAR | DIRECTOR | PRESIDENT (BOG)

Signed on: 26/06/2025

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)

NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS

SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31ST MARCH 2025

AMOUNT (₹)

SCHEDULE - 14 - ESTABLISHMENT EXPENSES	CURRENT YEAR		PREVIOUS YEAR	
a) Salaries & Allowances	28,04,62,020.00		26,85,47,941.00	
b) Children Education Allowance	34,91,728.00		-	
c) Man Power Hiring	6,95,66,176.00		6,27,28,304.00	
d) Contribution to Provident Fund , NPS & Others	3,56,27,203.00		3,34,81,204.00	
e) Contribution to Other Fund	-		-	
f) Provision on Employees Retirment and Terminal Benefits (Gratuity & Leave Encashment)	4,16,90,004.00		3,34,23,124.00	
g) **Others**				
Honorariun/ Compensation	12,08,373.00		15,74,319.00	
Medical Reimbursement	51,60,560.00		23,28,739.00	
Newspaper/ Mobile Exp Reimbursement	15,27,384.00		10,06,484.00	
Staff Welfare Exp.	-		-	
Relocation Expenses	-		1,76,911.00	
TOTAL		**43,87,33,448.00**		**40,32,67,026.00**

ASSISTANT REGISTRAR (ACCOUNTS) **REGISTRAR** **DIRECTOR** **PRESIDENT (BOG)**

Signed on: 26/06/2025

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)

NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS

SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31ST MARCH 2025

AMOUNT (₹)

SCHEDULE - 15 - OTHER ADMINISTRATIVE EXPENSES	CURRENT YEAR		PREVIOUS YEAR	
Electricity and Power	4,01,66,531.00		3,82,62,117.00	
Repairs & Maintenance (Building & Other)	97,55,490.00		80,19,157.00	
Insurance	2,69,571.00		2,03,591.00	
Repairs & Maintenance (Housekeeping & Office Expenses)	1,29,77,769.00		1,18,68,071.00	
Security Service Charges	2,24,28,045.00		1,80,34,982.00	
Rent, Rates and Taxes	64,28,333.00		75,67,340.00	
Vehicles Running and Maintenance	33,72,603.00		31,32,091.87	
Postage, Telephone and Communication Charges	12,19,728.00		11,32,117.00	
Printing , Stationary and Publication	24,63,763.00		27,49,863.00	
Travelling and Conveyance Expenses	63,74,330.00		57,71,907.00	
Legal & Arbritation Expenses	5,70,530.00		86,85,190.00	
Conference & Meetings Expenses	17,04,035.00		30,55,617.00	
Professional & Consultancy Charges	6,72,442.00		22,82,330.00	
Advertisement and Publicity	51,19,951.00		47,83,557.00	
Guest House Expenses	25,19,614.00		26,19,343.00	
Bank Charges	2,26,998.72		1,75,490.73	
Website Expenses	3,14,328.00		2,09,227.00	
CAG Audit Fees	5,30,640.00		5,50,000.00	
Doctor Fees	36,20,710.20		39,12,306.00	
Bad and doubtful debts	-		6,20,104.81	
Mis Office Exp	45,83,825.53		54,13,386.00	
DG Set Running	24,98,221.00		0.00	
TOTAL		12,78,17,458.45		13,90,47,788.41

ASSISTANT REGISTRAR (ACCOUNTS) | REGISTRAR | DIRECTOR | PRESIDENT (BOG)

Signed on: 26/06/2025

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)

NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS

SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31ST MARCH 2025

AMOUNT (₹)

SCHEDULE - 16 - PRIOR PERIOD ADJUSTMENT	CURRENT YEAR		PREVIOUS YEAR	
INCOME				
Interest Income on FDR	28,762.00		-	
Security Deposit	3,27,000.00		30,40,407.00	
Capital Fund Adjustment Deprecaition Jais	-		4,29,45,754.00	
Investment in Sweep sbi RBL 1040	-		1,61,392.00	
CAG Audit Fees	-		13,59,975.00	
Fee & Subscriptions	-		17,63,228.00	
Overhead Reversal (IDF)	34,080.00		30,46,900.00	
Fees From Student	-		14,000.00	
Repair & Renovation-CPWD Kanpur	-		7,48,524.00	
PL Tondon (Lab Equipment)	-		9,91,700.00	
Liquidated Damages	-		495.00	
Investment in Sweep Allahabad Bank 1170	-		1,00,58,353.00	
Interest on Retirement Benefit Fund with LIC	66,71,788.63		-	
Advance Adjustment	1,47,392.00		-	
Others	86,942.00	**72,95,964.63**	10,00,792.30	**6,51,31,520.30**

Contd .....

ASSISTANT REGISTRAR (ACCOUNTS) **REGISTRAR** **DIRECTOR** **PRESIDENT (BOG)**

Signed on: 26/06/2025

.... Contd.

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)

NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS

SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31ST MARCH 2025

AMOUNT (₹)

SCHEDULE- 16- PRIOR PERIOD ADJUSTMENT	CURRENT YEAR		PREVIOUS YEAR	
EXPENDITURE				
Travelling Expenses			58,646.00	
Fee & Subscriptions	14,24,684.00		10,26,795.17	
Liquidated Damages	46,920.00		75,406.00	
Security Deposit	30,060.00		5,66,000.00	
Mess Fee refund	-		10,69,374.00	
Electricity Charges	-		15,524.00	
Telephone & Communication Charges	-		11,326.00	
Lab Consumables	23,730.00		4,535.00	
NPS Contribution	1,06,268.00		2,29,344.00	
Mess Advance	-		2,99,26,841.00	
Interest & Penality (NCC)	-	**16,31,662.00**	17,09,82,871.00	**20,39,66,662.17**

Contd .....

ASSISTANT REGISTRAR (ACCOUNTS) **REGISTRAR** **DIRECTOR** **PRESIDENT (BOG)**

Signed on: 26/06/2025

.... Contd.

FORM OF FINANCIAL STATEMENTS (NON-PROFIT ORGANISATIONS)
NAME OF ENTITY : RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31ST MARCH 2025

AMOUNT (₹)

SCHEDULE- 16- PRIOR PERIOD ADJUSTMENT	CURRENT YEAR		PREVIOUS YEAR	
EXPENDITURE				
Advertisement & Publicity	-		30,000.00	
Project Overhead	16,69,244.00		3,18,585.00	
Insurance	3,118.00		8,067.00	
Excess Fee Due Reversed	82,047.00		3,50,000.00	
Retention Money Adjsutment	9,94,629.00		0.00	
Mess Fees Transferred to Student Welfare Fund	99,19,000.00		0.00	
Fees Refund (withdrawn)	2,97,835.00		56,70,524.84	
Consultancy & Professional Fees	-		26,550.00	
Medical Reimbursment	-		25,662.00	
Honorarium	-		1,99,998.00	
CAG Audit Fees	3,45,771.00		18,88,075.00	
PL Tondon (Lab Equipment)	12,273.15		9,91,700.00	
Repair & Maintenance	36,554.00		7,22,497.00	
Assets	3,79,067.00		-	
Caution Money	14,500.00		-	
IGST Liability	220.00		-	
Vehicle Running	95,711.00		-	
Training	33,390.00		-	
Ambulance	1,26,094.00		-	
Reimbursement	17,700.00		-	
other	1,18,741.27	**1,41,45,894.42**	7,959.00	**1,02,39,617.84**
NET PRIOR PERIOD EXPENDITURE		**-84,81,591.79**		**-14,90,74,759.71**

ASSISTANT REGISTRAR (ACCOUNTS) | **REGISTRAR** | **DIRECTOR** | **PRESIDENT (BOG)**

Signed on: 26/06/2025

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31st MARCH 2025
SCHEDULE '17'-SIGNIFICANT ACCOUNTING POLICIES

1. **Accounting Convention**

   The financial statements are prepared under dual entry system under the historic cost convention and on-going concern concept, following the accrual method of accounting unless otherwise stated herein.

2. **Inventory Valuation**
   Stores materials including stationery held at year end are valued at cost adopting FIFO method.

3. **Fixed Assets**
   - 3.1 Fixed assets are stated at the cost of acquisition, less accumulated depreciation thereon and impairment loss, if any. The cost includes inward freight, duties and taxes, installation charges and other directly attributable expenses related to their acquisition.
   - 3.2 Assets created out of research grants normally remain as property of the sponsoring authority in terms of sanction letters.
   - 3.3 Land includes acquisition cost, registration and other expenses and is capitalized on taking possession under Schedule-6 "Tangible Assets". However interim payments made on demand to Government Authorities for the purpose of acquisition of land will be treated as Capital Advance and will be grouped under Schedule-9 "Current Assets".
   - 3.4 Capital Work-In-Progress: Expenses incurred towards building under construction / civil work in progress / equipment received but not installed/ running bills payments during project construction stage towards contracts, consultancy services and project management / administrative expenses are grouped under Capital Work-In-Progress.
   - 3.5 The assets which are unserviceable, condemned or out of use are written off only after approval by the Competent Authority of the Institute.

ASSISTANT REGISTRAR (ACCOUNTS)	REGISTRAR	DIRECTOR	PRESIDENT-BOG

Signed on : 26/06/2025

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31st MARCH 2025

SCHEDULE '17'-SIGNIFICANT ACCOUNTING POLICIES

4. Method of Depreciation on Fixed Assets

4.1 Depreciation on fixed assets is provided on Straight Line Method (SLM) on pro-rata basis at the rates arrived at based on the estimated useful life of the assets. In respect of assets fully depreciated and are in use, a residual value of Rs. 1.00 is retained in the books till it is discarded.

4.2 Each Fixed asset costing Rs. 5000/- and below is fully depreciated in the year of acquisition.

4.3 On the recommendation of the Finance Committee, the BoG in 68th meeting resolved to revise the useful life and rate of depreciation of fixed assets (Tangible and Intangible) with effect from Financial Year 2021-22. The approved useful life of asset and rates of depreciation are as follows:

I. Useful Life and Rate of Depreciation on Fixed (Tangible) Assets

Sl. No.	Tangible Assets	Useful Life (In years)	Rate of Depreciation (In %)
1	Land	-	0
2	Site Development	-	0
3	Buildings	50.00	2.00
4	Roads & Bridges	50.00	2.00
5	Tube wells & Water Supply	50.00	2.00
6	Sewerage & Drainage	50.00	2.00
7	Electrical Installation and Equipment	20.00	5.00
8	Plant & Machinery	20.00	5.00
9	Scientific & Laboratory Equipment	12.50	8.00
10	Office Equipment	13.33	7.50
11	Audio-Visual Equipment	13.33	7.50
12	Computers & Peripherals	05.00	20.00
13	Furniture, Fixtures & Fittings	13.33	7.50
14	Vehicles	10.00	10.00
15	Library Books & Scientific Journals	10.00	10.00

ASSISTANT REGISTRAR (ACCOUNTS) | REGISTRAR | DIRECTOR | PRESIDENT-BOG

Signed on : 26/06/2025

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31st MARCH 2025
SCHEDULE '17'-SIGNIFICANT ACCOUNTING POLICIES

II. Amortization Period and Amortization Rate on Intangible Assets

Sl. No.	Intangible Assets	Amortization Period (In years)	Amortization Rate
1	E-Journals	02.50	40.00
2	Computer Software	02.50	40.00
3	Patents and Copyrights	09.00	11.11

5. Merging of Contingent Fund with Institute's Reserve Fund

A Depreciation Fund was initially created by transferring equivalent amount of depreciation subject to excess of income over expenditure from Income & Expenditure Account, to facilitate suitable funding for the replacement of assets. The BoG in its 62nd meeting resolved to rename the Depreciation Fund as Contingent Fund. The Board of Governors (BoG) further deliberated on the matter in its 68th meeting and resolved the following:

i. The fund shall be called **RESERVE FUND** of the Institute. General Reserve shall be known as Reserve Fund.
ii. The amount of Contingent Fund being merged with Reserve Fund shall be utilized only for capital works of the Institute.
iii. The Reserve Fund shall be used for capital works, however, in case of administrative exigencies, reserve funds may be utilized for recurring expenses with the approval of BoG.
iv. The excess of income over expenditure of each financial year shall be transferred to **RESERVE FUND** of the Institute.

6. Miscellaneous Expenditure

6.1 All expenses relating to renovation of rented premises including playgrounds/ courts are accounted in Income & Expenditure Account in the year of incurrence.

6.2 Deferred revenue expenditure on account of RGIPT Brand or intangible (E-Journals, Computer Software and Patent & Copyrights) assets shall be written off as per Amortization Policy of Institute.

ASSISTANT REGISTRAR (ACCOUNTS)	REGISTRAR	DIRECTOR	PRESIDENT-BOG

Signed on : 26/06/2025

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31st MARCH 2025

SCHEDULE '17'-SIGNIFICANT ACCOUNTING POLICIES

7. Accounting Policy on Lease as per Accounting Standard-19

On the recommendation of Finance Committee, the BoG in its 68th meeting considered the Accounting Policy on Lease as per Accounting Standard-19 to implement it with effect from Financial Year 2021-22. The approved policy is as follows:

Operating Leases (As per Para-23 of Accounting Standard- 19)

Para-23 of AS-19: The Lease payment under an operating lease shall be recognized as an expense in the statement of Income & Expenditure on a Straight-Line Basis.

Para-24 of AS-19: For operating lease, lease payments (excluding costs for services such as insurance and maintenance) shall be recognized as an expense in the statement of Income & Expenditure on a Straight-Line Basis.

Para-25 of AS-19: The lease shall be disclosed as under:

(a) Future minimum lease payments for the Operating Lease for the following periods:

(i) not later than one year,
(ii) later than one year and not later than five years,
(iii) later than five years.

8. Capital Fund Grant

8.1 Budgetary Support from Government of India and Grant from OIDB / Promoting entities for campus project work are accounted on receipt basis and grouped under "Capital Fund." Interest earned if any, from bank on capital fund account/ investment is accounted in Capital Fund account.

8.2 Depreciation charged on assets created out of Capital fund are treated as Deferred Income and transferred to Income and Expenditure Account every year on systematic basis over useful life of the assets.

8.3 The fund utilized for creating non-depreciable assets like land is treated as Capital Reserve.

ASSISTANT REGISTRAR (ACCOUNTS)	REGISTRAR	DIRECTOR	PRESIDENT-BOG

Signed on : 26/06/2025

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31st MARCH 2025
SCHEDULE '17'-SIGNIFICANT ACCOUNTING POLICIES

9. Corpus fund

9.1 Corpus Fund received is accounted on receipt basis and is grouped under Corpus Fund. Interest earned from investment of Corpus Fund in Fixed Deposit Receipts (FDRs) with banks are utilized for meeting the recurring expenses.

9.2 Interest earned from investment of Corpus Fund is accounted in Income & Expenditure Account and the surplus interest (if any) after meeting the recurring expenses, as lying invested in Fixed Deposits Receipts with Banks.

10. Foreign Currency Transactions

10.1 Transactions denominated in foreign currency are accounted at the exchange rate prevailing as at the date of such transactions.

11. Provisions, Prepaid

11.1 All known liabilities and other financial obligations exceeding Rs.10,000/- up to the date of finalization of accounts are accounted for.

11.2 Pre-paid charges/expenses exceeding Rs. 10,000/- incurred during the year are carried to next year and are duly considered in relevant future period.

12. Investments

12.1 Investments are held in the form of Fixed Deposit Receipts with Scheduled Banks.

12.2 No Investments are made by the Institute in the tradable securities.

12.3 Investments are valued at cost.

13. Revenue Recognition

13.1 Interest earned on Fixed Deposits with Banks, income from Students' Fees including entrance fees and other receipts are accounted for as and when due on accrual basis and are recognized as income of the Institute. Sale of discarded assets/items etc. is accounted for on receipt basis.

ASSISTANT REGISTRAR (ACCOUNTS)	REGISTRAR	DIRECTOR	PRESIDENT-BOG

Signed on : 26/06/2025

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31st MARCH 2025
SCHEDULE '17'-SIGNIFICANT ACCOUNTING POLICIES

14. Retirement Benefits

14.1 Liability of retirement benefits i.e. Gratuity and Leave Encashment are provided on the basis of actuarial valuation.

14.2 Provisions for Gratuity and Leave Encashment are being made in books and capitalized value of Gratuity and Leave Encashment being received from previous employers of the Institute's employees, who have been absorbed in the Institution, is credited to the Provision Accounts.

14.3 Equivalent amount of provisions being made is transferred to respective Gratuity and Leave Encashment Funds of RGIPT Jais, Amethi, Assam Energy Institute (AEI), Sivasagar and Energy Institute, Bengaluru (EIB).

14.4 Investment made against these provisions are being shown as a part of "Investment Others" in a separate Schedule.

14.5 The actual payments of Gratuity and Leave Encashment are debited in the accounts to the respective provisions.

14.6 The Board of Governors in its 66th meeting resolved on the recommendation of Finance Committee for the investment of 'Leave Encashment' and 'Gratuity Funds' in LIC's New Group Leave Encashment Plan' and 'LIC's New Group Gratuity Cash Accumulation Plan' respectively for the employees of RGIPT Jais, Amethi and its centres, namely- AEI, Sivasagar and Energy Institute, Bengaluru (EIB).

15. Income Tax

15.1 The Institute income is exempted from Income Tax under the provisions of Section 10(23C) (iii) (ab) of the Income Tax Act, 1961, hence, no provision is made for Income Tax.

ASSISTANT REGISTRAR (ACCOUNTS)	REGISTRAR	DIRECTOR	PRESIDENT-BOG

Signed on : 26/06/2025

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31st MARCH 2025

SCHEDULE '17'-SIGNIFICANT ACCOUNTING POLICIES

16. Policy for Grant of Research Grant/ Seed Grant to Faculty Members

The BoG in its 71st meeting passed the policy to sanction Research Grant/ Seed Money to Faculty Members of the Institute and its centres. The major highlights of the policy are as under:

Preamble: To provide financial support to young faculty members to carry out research works and establish research laboratory, which may further lead to fetch the extramural projects from industries and funding agencies.

Research Grant: Providing assistance to outstanding collaborative research proposals received from faculty of Institute and centres with an objective to attract external fundings.

Seed Grant: Providing one-time research financial support to the newly appointed faculty in the cadre of Assistant Professor of Institute and its centres.

Funding: Interested faculty will be required to submit the research proposals to the office of Dean- Research & Development to get support under Seed Grant/ Research Grant scheme. The projects shall be approved based on the recommendation of the Evaluation Committee. The fund shall be sanctioned from the "Recurring Grant" of the Institute for various project activities. The financial support under the Seed Grant scheme shall be generally up to Rs. 10.00 Lakhs and it may be extended further depending on the genuine need of the proposal/ recommendation of the committee. In the case of the Research Grant Scheme, as such there shall not be any financial limit, however, funding for the project shall be sanctioned on the recommendation of Internal Project Evaluation Committee.

Approving Authority: The Director, RGIPT shall be Approving Authority for financial support under both the schemes.

General Guidelines: The guidelines followed in the external funded projects shall be applicable in all the projects sanctioned under the Research Grant/ Seed Grant schemes. Institutes' procurement rules shall be followed in the procurement of non-consumable and consumable items. A list of all non-consumable items procured out of Project Funds shall be handed over to the respective department after the closure of the project.

ASSISTANT REGISTRAR (ACCOUNTS)	REGISTRAR	DIRECTOR	PRESIDENT-BOG

Signed on : 26/06/2025

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2025
SCHEDULE '18'-NOTES ON ACCOUNTS

The Notes forming part of the Accounts giving inter-alia certain additional disclosures in respect of significant accounting transactions during the year and highlighting the Institute's contingent liability and capital commitment as of 31st March 2025 are as follows:

1. The Receipt and Payment Account carries the amounts of actual receipts and actual payments of the Institute during the year 2024-25. However, the recoveries under the various heads have been grossed up. e.g. salaries expenses have been raised on account of NPS, Income Tax Deductions, etc.

2. The Income & Expenditure Account and the Balance Sheet have been drawn from Receipt and Payments Account duly accounted for liabilities, prepaid expenses, advance payments and provisions as at the end of the accounting year.

3. The financial statements have been presented as per Uniform Format prescribed for non-profit Central Autonomous Bodies.

4. Previous year figures have been regrouped/rearranged in order to make them comparable with the current year figures.

5. While finalizing the Accounts for the year, necessary action has been taken, wherever applicable, to implement the recommendations of Government Audit on accounts of previous year.

6. In line with the recommended policy for non-profit organization in respect of accounting of Gross Budgetary Support (GBS) and Grants, the Institute has adopted the following significant accounting policy:

   - Budgetary Support received from Government of India and Grants received from OIDB/ promoting entities and Capital Fund (Own Contribution) for campus development are grouped under "Capital Fund" in **Schedule-1** along with the interest and other amount earned if any.

   - Amounts grouped under Corpus/Endowment Fund in **Schedule- 3** represent contribution received from Oil PSUs for meeting the recurring expenses from its interest and the transfer of excess of income over expenditure to the extent of surplus interest lying invested in Fixed Deposit Receipts from the Income & Expenditure Account.

ASSISTANT REGISTRAR (ACCOUNTS)	REGISTRAR	DIRECTOR	PRESIDENT-BOG

Signed on : 26/06/2025

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2025
SCHEDULE '18'-NOTES ON ACCOUNTS

- Depreciation on assets created out of capital funds is treated as Deferred Revenue Income and recognized in the Income and Expenditure Account every year on a systematic basis over the 'useful life' of the assets. Accordingly, Rs. 21,69,04,038.40 being the depreciation charged during the year has been transferred to Deferred Revenue Income.

7. The provisions of Payment of Gratuity Act are applicable to the Institute. Accordingly, based on Actuarial Valuation, accumulated provision for Rs. 15,94,90,558.00 has been made in the accounts towards retirement benefit for (a) Gratuity and (b) Leave Encashment, which is reflected in accounts at **Schedule-5** under 'Current Liabilities and Provisions' as of 31-03-2025.

8. During the year, excess of income over expenditure to the extent of the surplus interest lying invested in fixed deposit with banks amounting to total of Rs. 28,70,67,116.65 have been transferred to the Institute's Reserve Fund, which has been reflected under Reserve and Surplus in **Schedule-2**.

9. As per the EFC Sanction Ref. F.No. 42024/6/2012-Gen.(Vol. II) dated 16.03.2015 with regard to Revised Cost Estimate for Jais Project taken by Department of Expenditure (Ministry of Finance), it is decided that RGIPT will confine its RGIPT Jais Campus project in 47.00 acres of land only, as the acquisition of additional land by UPSIDC did not materialize. Consequent to this, the institute had applied to UPSIDC in 2015-16 for refund of advance payment of Rs. 185.00 Lakh made during previous years as per their demand, for acquisition of land. Out of the above, Rs. 143.00 Lakh was realized during the year and the balance of Rs. 41.80 Lakh is grouped under Loans & Advances on capital account. According to UPSIDC, Rs. 41.80 Lakh is not payable since the amount is deducted against their standard deduction policy for land acquisition. RGIPT is following up with UPSIDC for refund on the grounds that the acquisition of land did not take place, hence, there is no deduction applicable. Meanwhile, provision for doubtful debt of Rs. 41.80 Lakh has been made in books from 2017-18 which is reflecting under Schedule-5(B), on the recommendation of Audit.

ASSISTANT REGISTRAR (ACCOUNTS)	REGISTRAR	DIRECTOR	PRESIDENT-BOG

Signed on : 26/06/2025

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2025
SCHEDULE '18'-NOTES ON ACCOUNTS

10. The contract for civil & structural work awarded in June 2010 to M/s Punj Lloyd Ltd for an estimated contract value of Rs.179,89,04,329/- had been terminated in view of the contractor's failure to perform as per the agreed schedule. Prior to termination, contractor raised certain claims not payable under the contract and on Institute's refusal to pay the claimed amount, the contractor invoked arbitration. During the previous year the Current Liabilities and Provisions includes Rs. 3,27,27,202/-, the unpaid balance amount against the value of work done by the contractor and retention money of Rs. 35,04,000/- the same along with escalation advance of Rs. 1,00,00,000/- adjusted and the balance amount of Rs. 2,62,31,202/- has been transferred to General Reserve as per the approval of BOG. This is also in compliance with CAG para issued.

11. MoPNG in its meeting held on 14.02.2014 proposed to set up a centre of RGIPT at Bangaluru. The foundation stone for this centre was laid at Kambalipura Village in Rural Bangaluru District, Karnataka by then Minister PNG on 05.03.2014. Meanwhile, a fund of Rs. 2000.00 lakh has been paid by OIDB to RGIPT as an advance (vide letter No.4/15/2017-OIDB dated18.07.2017 for construction of compound wall and other miscellaneous expenses for setting up of Energy Institute, Bengaluru. A further fund of Rs. 3000.00 lakhs was also paid by OIDB to RGIPT (vide letter No.J-25021/6/2017-Gen/CA dated 24.07.2018) to commence academic courses from temporary campus. Since the amount has been received as an advance, the same has been reflected under **Schedule-5** under Current Liabilities.

12. Contingent Liabilities

a) An arbitration award for arrear salary (approx. Rs. 4.24 lakhs plus interest) against a claim from an ex-employee Prof. R. K. Suri is under litigation in the Court of Law and no liability has materialized as on 31.03.2025.

b) An amount of Rs. 3.59 Crore is being kept as Lien Marked FDR as Collateral Security against opening of Letter of Credits for Equipment purchase as on 31.03.2025.

ASSISTANT REGISTRAR (ACCOUNTS)	REGISTRAR	DIRECTOR	PRESIDENT-BOG

Signed on : 26/06/2025

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2025
SCHEDULE '18'-NOTES ON ACCOUNTS

13. Capital Commitments

The capital commitments as on 31.03.2025 was NIL.

14. Immovable Asset/ Land

1. The Rajiv Gandhi Institute of Petroleum Technology (RGIPT), Jais, Amethi had purchased a land measuring 18.167 Hectares (44.89 acres) at Village- Mubarakpur Mukhatia, Bahadurpur, Post- Harbanshganj, Tehsil- Tiloi, Jais, Amethi, Uttar Pradesh from M/s Indian Oil Tanking Ltd (A registered company incorporated under the Companies Act, 1956) vide Sale Deed dated 18th February 2008. However, the Mutation of land in favour of RGIPT is pending with the Court of Tehsildar, Tiloi, Dist- Amethi.

2. The Government of Assam had allotted a land measuring 100.00 acres at Village- Gohain Gaon, Dhai Ali Road, Akhoiphutia, Sivasagar-785697, Assam to Rajiv Gandhi Institute of Petroleum Technology (RGIPT) to establish its centre, namely- Assam Energy Institute (AEI), Sivasagar.

3. The Government of Karnataka has allotted a land on lease measuring 150 acres at Survey No- 127-P of Kambalipura Village, Soolibele Hobli, Hoskote Taluk, Bengaluru Rural District, Karnataka to establish its centre, namely- Energy Institute (EIB), Bengaluru. The lease of land is valid up to 22-03-2026. The Institute is required to utilize at least 50% of allotted land as per Lease cum Sale Agreement dated March 23, 2018, and thereafter land shall be transferred to the Institute.

ASSISTANT REGISTRAR (ACCOUNTS)	REGISTRAR	DIRECTOR	PRESIDENT-BOG

Signed on : 26/06/2025

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2025
SCHEDULE '18'-NOTES ON ACCOUNTS

The details of above-mentioned land are as follows:

Sl. No.	Particulars	Book Value as on 31.03.2025	Leasehold/ Freehold	Area of Land
1	Rajiv Gandhi Institute of Petroleum Technology (RGIPT), Jais, Amethi, **Uttar Pradesh**	4,47,03,296.59	Freehold	18.167 Hectares (44.89 acres)
2	Assam Energy Institute (AEI), Sivasagar, **Assam**	60,97,535.00	Freehold	100 acres
3	Energy Institute (EIB), Bengaluru, **Karnataka**	150.00	Leasehold	150 acres

Accordingly, an amount of Rs. 5,08,00,831.59 has been shown as Capital Reserve under **Schedule-2**.

15. Lease

The Institute has taken premises on lease (operating lease) at Amethi, Sivasagar and Bengaluru for the purpose of Boys and Girls Hostels and for transit campus respectively. The details of premises taken on lease are as follows:

a. Not later than one year:

Sl. No.	Premises taken on Lease	Name of the Lessees	Lease Start Date	Monthly Rent	Lease Expiry
1.	Transit campus of EIB, Bengaluru	Sri Venkateshwara College of Engineering, Bengaluru	01.07.2023	2,50,000.00	30.06.2024
2.	Accommodation for B.Tech. Students (CS & EE)	Dwelve Spaces Private Ltd.	01.09.2023	7,76,216.00	31.05.2024

ASSISTANT REGISTRAR (ACCOUNTS) | REGISTRAR | DIRECTOR | PRESIDENT-BOG

Signed on : 26/06/2025

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2025
SCHEDULE '18'-NOTES ON ACCOUNTS

b. Later than one year and not later than five years:

Sl. No.	Premises taken on Lease	Name of the Lessees	Lease Start Date	Monthly Rent	Lease Expiry
1.	Boys Hostel-7, Sivasagar	Bitul Baruah	01.09.2019	30,000.00	30.06.2024
2.	Girls Hostel-1, Sivasagar	Ruprekha Baruah	01.09.2019	60,000.00	30.06.2024
3.	New Boys Hostel-1, Sivasagar	Kabir Ahmed Bhuyan	01.03.2021	94400.00	30.06.2024
4.	Transit campus of EIB, Bengaluru	Sri Venkateshwara College of Engineering, Bengaluru	01.07.2022	1,25,000.00	30.06.2024
5.	Boys Hostel for MBA students	Footwear Design & Development Institute (FDDI), Fursatganj, Amethi	28.07.2023	1,80,000.00	31.05.2025

16. Hiring out of Fixed Asset of Lease (GFR Rule No-212)

a. Not later than one year:

Sl. No.	Premises Given on Lease	Name of the Lessees	Lease Start Date	Monthly Rent	Lease Expiry
1.	Cafeteria	M/s Shahmau Enterprises	22.03.2024	2000.00	21.02.2025

b. Later than one year and not later than five years:

1.	Beauty Parlor, Commercial Complex, RGIPT	Smt. Suman Modanwal, Jais, Amethi	01.09.2023	1,470.00	30.06.2025
2.	Bakery Shop, Commercial Complex, RGIPT	M/s U. S. Bakers, Raebareli	22.09.2023	1,400.00	21.08.2024
3.	Canteen Shop	M/s Jaiswal Canteen	03.11.2021	750.00	16.05.2025

ASSISTANT REGISTRAR (ACCOUNTS) REGISTRAR DIRECTOR PRESIDENT-BOG

c. Later than five years:

Signed on : 26/06/2025

1	Bank of Baroda in Commercial Complex, RGIPT, Jais	Bank of Baroda	03.05.2017	3,770.00	02.05.2027
2	Post Office, Commercial Complex, RGIPT	India Post	Allotted free of cost.		
3	Grocery Shop, Commercial Complex, RGIPT	M/s S. R. Enterprises, Raebareli	26.02.2019	1544.00	28.02.2026
4	Stationary Shop	M/s A to Z Shop	30.08.2019	750.00	16.05.2025

17. Sundry Debtors Confirmation

The Institute raises invoices against the services provided to various Oil PSUs and other bodies. These are shown as "Debtors" under Schedule-9. The "Debtors" confirmation is obtained through emails. The concerned organizations acknowledge the same and remit the funds against these Invoices. Accordingly, every year the Institute receives the balance of receivable money against the "debit" balances.

18. Conversion of Advance to WIP

During the year Capital Advances of Rs. 1,87,19,25,926/- related to ongoing work transferred to Fixed Assets under work in progress to the redress the observation of CAG para.

19. Reclassification of Air Conditioner

To redress the observation of the CAG audit para regarding the classification of air conditioners under Schedule 6 "Fixed Assets" of the annual accounts, the nomenclature of the asset has been revised from "Air Conditioner" to "High Capacity Chiller Plant." This change ensures accurate classification and better representation of the nature and capacity of the installed system, in line with the applicable accounting and audit guidelines.

20. Security Deposit with BESCOM

To redress the observation of the CAG audit para regarding the security deposit with BESCOM the amount of Rs. 3,27,000/- has been transferred to security deposit.

ASSISTANT REGISTRAR (ACCOUNTS) **REGISTRAR** **DIRECTOR** **PRESIDENT-BOG**

21. Creation of Fixed Assets from WIP

Signed on : 26/06/2025

To redress the observation of the CAG audit para regarding the creation of fixed assets from WIP an amount of Rs. 9,18,60,205/- has been transferred to "Building on leasehold land Bangaluru". Further an amount of Rs. 40,71,170/- has also been transferred from WIP to fixed assets pertaining to track and field at RGIPT.

22. Disclosure of Debtors

To redress the observation of the CAG audit para regarding the separate disclosure for Debts outstanding for a period of exceeding 6 month has been made in Schedule 9 current assets.

23. Project Closed

To redress the observation of the CAG audit para regarding the closure of projects pertains to static balance since 2021-22 has been closed in respect of which closure report has been submitted to the sponsoring agencies.

24. Stock of Medicine

To redress the observation of the CAG audit para regarding the closing stock of Medicine, stock of medicine has been updated in annual accounts as on 31.03.2025.

25. Children Education Allowance

To redress the observation of the CAG audit para regarding the children education allowance the same has been separately disclosed under "Schedule 14 (Establishment Expenses).

26. Investment of Endowment fund

To redress To address the observation raised in the CAG Audit Para regarding the classification of investments related to the Endowment Fund, the necessary disclosure has been revised. Accordingly, an amount of Rs. 560.51 crores has been correctly reclassified and disclosed under Schedule-7 (Investments – Earmarked/Endowment Fund). The remaining balance of Rs. 23.29 crores, which is held as bank balance, continues to be reflected under Schedule-9 (Current Assets/Loans & Advances).

27. Separate Balance sheet of NPS

To redress the observation of the CAG audit para regarding the preparation of separate Balance Sheet of NPS the same has been prepared and enclosed with Annual Accounts.

ASSISTANT REGISTRAR (ACCOUNTS)	REGISTRAR	DIRECTOR	PRESIDENT-BOG

Signed on : 26/06/2025

Annexure II

SEPERATE AUDIT REPORT
2014–25

Rajiv Gandhi Institute of Petroleum Technology
Jais, Amethi, Uttar Pradesh

भारतीय लेखापरीक्षा एवं लेखा विभाग
कार्यालय महा निदेशक लेखापरीक्षा (ऊर्जा)
नई दिल्ली

SUPREME AUDIT INSTITUTION OF INDIA
लोकहितार्थ सत्यनिष्ठा
Dedicated to Truth in Public Interest

INDIAN AUDIT & ACCOUNTS DEPARTMENT
Office of the Director General of Audit (Energy)
New Delhi

Dated:.....

To,

The Secretary to the Government of India,
Ministry of Petroleum and Natural Gas,
Shastri Bhawan,
New Delhi -110001

Subject: Separate Audit Report on the Annual Accounts of Rajiv Gandhi Institute of Petroleum Technology for the year 2024-25.

Sir,

I am to forward herewith the Separate Audit Report on the Annual Accounts of Rajiv Gandhi Institute of Petroleum Technology for the year 2024-25 along with the Annual Accounts for the year 2024-25.

The Separate Audit Report and Annual Accounts may kindly be laid on the table of both the Houses of Parliament.

Two copies of the document as presented to both the Houses of the Parliament may kindly be forwarded to this office with an intimation regarding the date(s) on which these are laid on table of both the Houses of the Parliament.

Yours faithfully,

Encl: As above.

Sd/-

(Tanuja Mittal)
Director General of Audit (Energy)

पाँचवा, छठा, सातवाँ एवं दसवाँ तल, सी.ए.जी बिल्डिंग, एनैक्सी, 10, बहादुर शाह जफर मार्ग, नई दिल्ली - 110002
5th, 6th, 7th & 10th Floor, C.A.G. Building Annexe, 10, Bahadur Shah Zafar Marg, New Delhi - 110002
Tel.: 011-23239213, 011-23239211, Email : pdaenergydl.cag@nic.in / dgaenergydl@cag.gov.in

संख्या.: **DGA(Energy) /Rep/01-139/Acs-RGIPT/2025-26/** 504 **Dated:** 31/10/2025

Copy forwarded to:

The Director, Rajiv Gandhi Institute of Petroleum Technology, Mubarakhpur Mukhetia More, Bahadurpur, Jais, Post Harbanshganj, Amethi - 229304, Uttar Pradesh alongwith Management Letter for necessary action.

Encl: As above.

Tanuja Mittal

(Tanuja Mittal)
Director General of Audit (Energy)

Opinion of the Comptroller & Auditor General of India on the Accounts of Rajiv Gandhi Institute of Petroleum Technology for the year ended 31 March 2025

Qualified Opinion

We have audited the financial statements of Rajiv Gandhi Institute of Petroleum Technology (RGIPT), which comprise the statement of financial position as at 31 March 2025, the Income & Expenditure Account and Receipts & Payment Account for the year then ended, and Schedules forming part of financial statements, including a summary of significant accounting policies under Section 19(2) of the Comptroller & Auditor General's (Duties, Powers & Conditions of Service) Act, 1971 read with Section 26 of the Rajiv Gandhi Institute of Petroleum Technology Act, 2007.

This Audit Report contains the comments of the Comptroller & Auditor General of India (CAG) on the accounting treatment only with regard to classification, conformity with the best accounting practices, accounting standards, disclosure norms, etc. Audit observations on financial transactions regarding compliance with the law, Rules and Regulations (Propriety & Regularity) and efficiency cum performance aspects, etc., if any, are reported through inspection report/ CAG's audit reports separately.

In our opinion, except for the effects of the matter described in the Basis for Qualified Opinion section of our report, the accompanying financial statements of RGIPT, read together with the accounting policies and Notes thereon and other matters mentioned in the Separate Audit Report, which follows, **give a true and fair view** of the financial position of the autonomous body as at March 31, 2025, and (of) its financial performance and its cash flows for the year then ended in accordance with uniform format of accounts/ accounting standards generally accepted in India.

Basis for Qualified Opinion

Reference is invited to the following matters:

i. Depreciation (A.1): Depreciation on additions to fixed assets was not calculated on pro-rata basis from the date of assets put to use. In addition, the value of those assets, which have exceeded their useful life, was not brought down to residual value of ₹1. Consequently, there is overstatement of Depreciation and understatement of Fixed Assets by ₹18.29 crore each.

ii. Capital Work in progress (A.2): Certain completed construction works have not been capitalized under fixed assets, leading to misclassification in the accounts and potentially affecting the proper understanding of financial statements by users. This has resulted in overstatement of Capital Works in Progress and understatement of Fixed Assets by an amount of ₹29.88 crore each.

iii. Currents Assets, Loans and Advances (A.3): Unspent balances of advances given for deposit works were not transferred to 'Current Assets, Loans, and Advances' and continued to be shown under 'Capital Works in Progress' thereby leading to misclassification of assets. This has resulted in overstatement of Capital Work in Progress and understatement of Current Assets, Loans, and Advances by an amount of ₹15.21 crore each.

The comments on the financial statements that relate to specific amounts in the financial statements/ narrative disclosures/ non-disclosure of information required to be disclosed are included in our observations in the Separate Audit Report.

We conducted our audit in accordance with CAG's auditing regulations/ standards/ manuals/ guidelines/ guidance-notes/ orders/ circulars etc. Our responsibilities are further described in the Auditor's Responsibilities for the Audit of the Financial Statements section of our report. We are independent of the autonomous body in accordance with ethical requirements that are relevant to our audit of the financial statements, and we have fulfilled our other ethical responsibilities in accordance with these requirements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our qualified opinion.

Responsibilities of Management for the Financial Statements

The management of RGIPT is responsible for the preparation and fair presentation of the financial statements in accordance with uniform format of accounts prescribed for central autonomous bodies /accounting standards generally accepted in India and for internal control as management determines is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

Auditor's Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion in accordance with CAG's auditing regulations/ standards/ manuals/ guidelines/guidance-notes/ orders/ circulars etc.

For and on behalf of the
Comptroller & Auditor General of India

Tanuja Mittal

Place: New Delhi
Date: 31/10/2025

(Tanuja Mittal)
Director General of Audit (Energy)

Separate Audit Report on the Accounts of Rajiv Gandhi Institute of Petroleum Technology for the year ended on 31 March 2025

A. Balance Sheet

1. Fixed Assets (Schedule 6): ₹689.70 crore
Depreciation: ₹165.27 crore

As per Significant Accounting Policy No. 4.1, "Depreciation on fixed assets is provided on Straight Line Method (SLM) on pro-rata basis at the rates arrived at based on the estimated useful life of the assets. In respect of assets fully depreciated and are in use, a residual value of ₹1.00 is retained in the books till it is discarded". In this regard, Audit observed that:

(i) While charging depreciation on the fixed assets, RGIPT has worked out depreciation on the gross block of assets and not considered the residual value of ₹1.00 in respect of those assets which had completed their useful lives and were being retained in the books of accounts. This issue was also raised in Separate Audit Report on the financial statements for 2023–24.

(ii) During 2024–25, RGIPT capitalised assets amounting to ₹20.94 crore on various dates whereas full year's depreciation has been charged on these additions irrespective of their date of commissioning. This is inconsistent with the accounting policy and AS-10.

The above has resulted in overstatement of 'Depreciation' and understatement of 'Fixed Assets' by ₹18.29 crore each apart from corresponding overstatement of 'Deferred Revenue Income' and understatement of 'Capital Fund' by the same amount.

2. Fixed Assets (Schedule 6): ₹689.70 crore
Capital Work in Progress: ₹268.71 crore

(i) CWIP includes an amount of ₹9.15 crore in respect of the construction work which was executed by CPWD, Guwahati and completed and handed over to RGIPT in May 2024.

(ii) Similarly, CWIP also includes an amount of ₹20.73 crore towards the construction work of Additional Building at Energy Centre, Sivasagar, Assam which was completed and handed over to RGIPT in July 2024.

The above should have been classified as Fixed Assets in accordance with provisions of AS-10 (Property, Plant & Equipment) instead of including under CWIP.

This has resulted in overstatement of CWIP and understatement of Fixed Assets by an amount of ₹29.88 crore each apart from non-charging of depreciation thereon.

3. Current Assets, Loans and Advances (Schedule 9): ₹338.51 crore

Above does not include an amount of ₹15.21 crore (₹2.07 crore + ₹13.14 crore) paid by RGIPT as advance for deposit works to the Executing Agencies (CPWD, Amethi and CPWD, Assam) which, as per progress report submitted by the agencies, had not been utilized as on 31 March 2025. The same has, however, been treated as CWIP instead of Advance.

This has resulted in overstatement of CWIP and understatement of 'Current Assets, Loans, and Advances' by an amount of ₹15.21 crore each.

B. General

1. Non-disclosure of details of long pending TDS receivables

As per Uniform Format of Accounts for Central Autonomous Bodies, significant items under "Advances and Other Amounts Recoverable" which are disputed, long pending, or doubtful of recovery are required to be distinctly disclosed in the Notes to Accounts with suitable explanatory remarks.

However, despite the major portion of TDS receivable of ₹7.03 crore pertaining to earlier years and remaining unrealised for more than a decade being under reassessment proceedings presently, RGIPT has not disclosed these facts in the Notes to Accounts.

2. Non-compliance of the provisions of RGIPT First Statutes, 2009

As per the RGIPT Act, 2017 and RGIPT First Statutes, 2009, the Board of Governors of RGIPT shall ordinarily meet four times during a calendar year. Further, there shall not be gap of more than three months between two consecutive meetings.

However, RGIPT convened three Board meetings during the CY 2024 (viz., 29 April 2024, 6 August 2024 and 22 November 2024). Further, the interval between the 73rd Board meeting (5 December 2023) and the 74th (29 April 2024) Board meeting exceeded the stipulated maximum gap of three months.

3. Non-disclosure of Capital Commitment

As on 31 March 2025, RGIPT had ongoing works at its Jais Campus (AA&ES ₹106.89 crore, expenditure ₹65.19 crore), Assam Centre (AA&ES ₹114.10 crore, expenditure ₹62.84 crore) and Bengaluru Centre (AA&ES ₹25.19 crore, expenditure ₹15.83 crore). Thus, as against total AA&ES of ₹246.18 crore, an amount of ₹143.86 crore was spent, leaving unexecuted balance commitments of ₹102.32 crore. However, RGIPT did not disclose any Capital Commitments and shown the same in Notes to Accounts as "NIL".

Thus, Notes to accounts are deficient to such extent.

4. Non-disclosure of Interest pertaining to advance from OIDB

RGIPT has shown the advance of ₹50 crore received from OIDB under Schedule 5 – Current Liabilities and Provisions since 2018-19. However, OIDB had demanded the refund of the advance along with interest thereon from time to time and RGIPT has taken up the matter with MoP&NG for conversion of this amount into grant. Since the matter has been pending since long, the facts in this regard should have been adequately disclosed in the Notes to Accounts. The Notes to Accounts are deficient to include such disclosure.

5. No significant Accounting Policy for treatment and utilization of interest income from Endowment funds

During the year 2024-25, substantial investments were made by RGIPT in Fixed Deposits under Endowment Funds, viz., ₹303.88 crore in respect of Jais and ₹256.62 crore in respect of Assam. Being endowment funds, these FDRs were in restrictive nature and not available for use on other purposes. However, the interest income earned by RGIPT on these investments has been recognized as income in the Income and Expenditure Account directly and utilized to meet the Institute's recurring operational expenses without appropriate fund-

wise segregation or compliance with donor restrictions. Further, no specific accounting policy was formulated by RGIPT for treatment of interest income earned on such funds.

C. Management Letter

Deficiencies which have not been included in the Separate Audit Report have been brought to the notice of the Management through a Management Letter issued separately for remedial/ correction action.

D. Assessment of Internal Controls

(i) Adequacy of Internal Control System: Internal Control system is commensurate with the size and nature of activities of the Entity.

(ii) Adequacy of Internal Audit System: There is an Internal Audit Wing in RGIPT which submits its reports to the Registrar, RGIPT. The Internal Audit has been conducted up to 31 March 2025.

(iii) System of Physical verification of fixed assets: Physical Verification of fixed assets is carried out by a Committee every year and same has been completed up to 2024-25.

(iv) System of Physical verification of Inventory: Physical Verification of consumables is carried out by a Committee every year and completed up to 2024-25.

(v) Regularity in payment of Statutory Dues: The income of RGIPT is exempt from Income Tax. RGIPT is regular in payment of statutory dues applicable.

(vi) Other matters relating to functioning of the Entity: No significant risk perceived.

E. Grants-in-aid

Out of the Grants-in-aid of ₹189.33 crore for capital assets (comprising unspent opening balance of ₹180.00 crore from previous year as given by the Management, amount received during the year of 'Nil' and interest earned ₹9.33 crore), RGIPT could utilize a sum of ₹148.95 crore during the year leaving a balance of ₹40.38 crore as unutilized grant as on 31 March 2025.

भारतीय लेखापरीक्षा एवं लेखा विभाग
कार्यालय महा निदेशक लेखापरीक्षा (ऊर्जा)
नई दिल्ली

SUPREME AUDIT INSTITUTION OF INDIA
लोकहितार्थ सत्यनिष्ठा
Dedicated to Truth in Public Interest

INDIAN AUDIT & ACCOUNTS DEPARTMENT
Office of the Director General of Audit (Energy)
New Delhi

Dated:.....

To,
The Director,
Rajiv Gandhi Institute of Petroleum Technology,
Jais, Amethi,
Uttar Pradesh

Subject: Management letter- Deficiencies noticed in accounting records

Sir,

We have audited the annual accounts of Rajiv Gandhi Institute of Petroleum Technology, Jais, Amethi, Uttar Pradesh for the year 2024-25 and have issued the Separate Audit Report thereon vide letter dated 31-10-2025. During the course of audit, the following deficiencies were noticed which were relatively of a minor nature and were therefore, not included in the Separate Audit Report. These are being brought to your notice for taking corrective and remedial action: -

1. It may be ensured that accounting treatment for transfer of surplus amount is done in compliance with the uniform format of accounts. (DSAR A.1)
2. Recognition of the correct amount of interest income on term deposits after due reconciliation thereof with interest certificate issued by the bank(s) may be ensured. (DSAR Para A.2)
3. Correctness of the accounting treatment with regard to adjustment of ₹2.62 crore arising from the obligations related to capital works may be ensured. (DSAR Para A.3)
4. Correct accounting treatment in respect of advances/recoverable pertaining to IDF as per the applicable Accounting Standards may be ensured. (DSAR Para A.4)
5. Appropriate adjustments of the provisions for leave encashment, gratuity in respect of the employees, received from their respective principal employers may be carried out. (DSAR Para A.5)
6. Correctness of the amount classified as Establishment Expenditure (Schedule 14) may be ensured. (DSAR B.1)
7. It may be ensured that the amount classified as student fees under Schedule 10 is correct. (DSAR B.2)
8. Suitable Significant Accounting Policy for treatment and utilisation of interest from Endowment Fund may be formed. (DSAR Para C.1)
9. As assured, suitable and adequate disclosure in respect of Land handed over to Oil India Limited may be ensured. (DSAR Para D.5)
10. Suitable accounting in respect of long pending recoverable amount of ₹0.41 crore from UPSIDC may be ensured. (DSAR Para D.7)

पाँचवा, छठा, सातवाँ एवं दसवाँ तल, सी.ए.जी बिल्डिंग, एनैक्सी, 10, बहादुर शाह जफर मार्ग, नई दिल्ली - 110002
5th, 6th, 7th & 10th Floor, C.A.G. Building Annexe, 10, Bahadur Shah Zafar Marg, New Delhi - 110002
Tel.: 011-23239213, 011-23239211, Email : pdaenergydl.cag@nic.in / dgaenergydl@cag.gov.in

11. As assured, suitable disclosure in respect of MSME in Notes to Accounts may be ensured. (DSAR Para D.9)
12. As assured, suitable disclosure in respect of related party transactions as per Accounting Standard 18 may be ensured. (DSAR Para D.10)

Yours faithfully,

Tanuja Mittal

(Tanuja Mittal)
Director General of Audit (Energy)

वार्षिक प्रतिवेदन
2024-25



राजीव गांधी पेट्रोलियम प्रौद्योगिकी संस्थान

Rajiv Gandhi Institute of Petroleum Technology

Jais Campus | Sivasagar Campus | Bengaluru Campus

registrar@rgipt.ac.in

www.rgipt.ac.in

विद्यारत्नम् महद्धनम्