

RAJU KUMAR

Final Year, RGIPT | Chemical Engineering Undergraduate

Male | 17/05/2000

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[Raju Kumar](#)



OBJECTIVE

A consistent and hard-working individual aiming to obviate barriers that can fuel the inclusive development of the nation.

EDUCATIONAL BACKGROUND

COURSE	INSTITUTE	CPI/CGPA/%	YEAR
B.TECH in Chemical Engineering	Rajiv Gandhi Institute of Petroleum Technology	6.96/10*	2019-2023
XII, (CBSE)	St. Joseph Public School	75%	2018
X, (ICSE)	St. Paul's School	86.8%	2016

* till 6th Semester

INTERNSHIP

Overview Of Production Dept. | Vocational Trainee | IOCL, Barauni Refinery

May 16 – June 30, 2022

Mentor: **Ms. Krishna Kumari (Manager L&D)**

[Link](#)

- Acquired a deep knowledge & understanding of overall Refinery Units.
- Worked in AVU-3, RFCCU, DHDT, CRU and Coker-A Units.

Retail Sales Department | Winter Internship | IOCL Chennai [Link](#)

Jan 10 – Feb 20, 2022

Mentor: **Mr. Saurav Anand Manager (Retail Sales), Tamil Nadu State Office**

TOPIC: BUYING BEHAVIOR AND FACTOR RESPONSIBLE FOR SELECTION OF ENGINE OIL FOR 2-WHEELER CUSTOMER

- Studied the customer behavior based on gender, age, annual income and education which make them to buy or select engine oil for 2 wheelers by doing Survey.
- Briefly understood the preferences of customers, competitor and market condition to target a potential customer and make the positive conversions.

PROJECTS

Hydrogen from Splitting of water by Artificial Photosynthesis

[BTP Link](#)

August 2021-December 2021

Mentor: **Prof. A.S.K Sinha, Dr. Shikha Singh** | Chemistry Lab, RGIPT

- Synthesized a photocatalyst, CdS (a semiconductor) and doped with few other elements to increase the efficiency of photocatalyst.
- Sunlight fall on the water and reaction takes place in the presence of suitable photocatalyst. In this reaction, water split into oxygen and hydrogen.
- Done characterization of it with the help of SEM, XPS and XRD

Hydrogen from Splitting of water by Artificial Photosynthesis

July 2022 – Sep 2022

Mentor: **Prof. A.S.K Sinha, Dr. Shikha Singh** | Chemistry Lab, RGIPT

- Synthesized Regenerator, Magnetic Nanoparticle (Fe₃O₄) to restore the catalytic activity of photocatalyst.
- Grafted Fe₃O₄ with SiO₂ and immobilized the photocatalyst TiO₂.
- Done characterization of Fe₃O₄ and SiO₂ grafted Fe₃O₄ with the help of FTIR, XPS and XRD.

ACHIEVEMENTS AND HONOURS

- **Google Digital Unlock**

The Fundamental Of Digital Marketing Certification Exam
Certificate ID- N5S R7Q GCT [Link](#)

2 June 2021

- **Qualified IIT JEE ADVANCE- 2019**

TECHNICAL SKILLS

- Software - MS Office, Origin, Aspen HYSYS, AutoCAD
- Programming Languages – C

EXTRA-CURRICULAR ACTIVITIES/PORs

- English Teacher | GYANARPAN, Project Amethi RGIPT 2019-Present
- Management Team's Member | IChE RGIPT Student Chapter 2020
- Event Management Team's Member | ENERGIA-2020, RGIPT Sport fest 2020
- Teaching volunteer of UBA | Social club 2019