Abhinav Dwivedi

Final Year, RGIPT | Chemical Engineering
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EDUCATIONAL BACKGROUND

COURSE	INSTITUTE	CPI/CGPA/%	Year
B.Tech	Rajiv Gandhi Institute of Petroleum Technology, Jais, Uttar Pradesh	6.23/10* ***Up to 5th Semester**	2018-2022
XII, (CBSE)	Pt. Deen Dayal Upadhyaya Sanatan Dharma Vidyalaya, Kanpur	83 %	2017
X, (CBSE)	Heliger Borden Education Centre, Kanpur	80.4 %	2015

INTERNSHIP

Continuous biodiesel production employing a nano catalyst with multiphase flow.
Rajiv Gandhi Institute of Petroleum Technology   *June 2021 – September 2021*
Mentor: Dr. Koushik Guha Biswas

- Designed a millichannel reactor for biodiesel production using AutoCAD
- Performed experiment through the designed reactor using waste cooking and analysed the product

PROJECTS

1. **Nanoparticles assisted mass transfer in embedded capillary millichannels**   Dec *2019 – March 2020*
   Supervisor: **Dr. K G Biswas, Asst. Professor, Department of Chemical Engineering, RGIPT**
   - Synthesized Ni nanoparticles from NiCl
   - Recorded and analysed flow regimes of toluene-water multiphase flow in minichannels using high speed camera

2. **Numerical simulation of water climbing uphill on a stepped surface**   *October 2020 – Present*
   Supervisor: **Dr. Parmod Kumar, Asst. Professor, School of Engineering, IIT Mandi**
   - Learnt modelling using open-source finite volume framework-OpenFoam
   - Numerically verified the developed computational model with the existing experimental results on the topic

3. **App development projects**
   i. Utility app for Institute   *July 2019 – Nov 2019*
   Under S&T Council, RGIPT
   - Developed a mobile application to store the details of students, process data and display in app, like marks, attendance, and other useful notifications

   ii. Attendance app for Institute   *Oct 2018 – Jan 2019*
   Under S&T Council, RGIPT
   - Developed separate applications for faculty and students which interacted through an online server (Firebase)
   - Attendance processing was done in real-time and data of every present student was displayed in the App

POSITION OF RESPONSIBILITIES

Student Coordinator | Kode club, RGIPT   *Nov 2020 - May 2021*
Competition Reinforcement Head | AIChE RGIPT Student Chapter   *Nov 2020 - May 2021*
Convener | Kode club, RGIPT   *Aug 2019 - May 2020*

SKILLS

Programming
- Python | C | C++ | Java | MATLAB

Computer Software
- Android Studio | AutoCAD | Google SketchUp | ANSYS | OpenFOAM | LaTeX | ASPEN

Database
- Google Firebase | SQL

CONFERENCE/WORKSHOPS ATTENDED

- AIChE Student Regional Conference - 2020 virtually
- The International Conference on Unconventional Energy Resources - 2019
- Machine Learning workshop by Skyfi labs
- Virtual workshop on Differential equations and their application organized by IIT Mandi
- Aspen workshop organized in AIChE student regional conference 2020
- MATLAB workshop organized in AIChE student regional conference 2020

AWARDS & ACHIEVEMENTS

JEE Advanced, 2018
- Among the top 5.5 percentile in JEE Advanced out of 0.25 million candidates

JEE Mains, 2017
- Among top 2.5 percentile in JEE Mains out of 1.2 million candidates

Techkriti Open School Championship, 2015-2016
- Participated in T.O.S.C, an open school competition, organized by IIT Kanpur and secured a rank in top 50 among 10,000 students

EXTRA-CURRICULAR ACTIVITIES

- As a member of the college drama club participated in many stage performances and also organized them.

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Signature: