



Deepak Kumar

Rajiv Gandhi Institute of Petroleum Technology

Chemical Engineering | DOB: 22-09-2000 | Male

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Final Year Undergraduate seeking a career in Chemical Engineering field where I can utilize my knowledge for the growth of organization as well as to enhance my knowledge.

EDUCATIONAL BACKGROUND

COURSE	INSTITUTE	CPI/CGPA/%	Year
B. Tech in Chemical Engineering	Rajiv Gandhi Institute of Petroleum Technology	8.27/10* *Up to 6 th Semester	2019-2023
Intermediate	Jawahar Navodaya Vidyalaya Karnal, Haryana	88.6%	2018
Matriculation	Jawahar Navodaya Vidyalaya Karnal, Haryana	9.8/10	2016

INTERNSHIPS

Process Safety Intern | Santane Consultants Pvt Ltd
2022

May 30, 2022 – Sept 04, 2022

Mentor: **Mr. Rahul Dhar, Director**

- Developed Block Diagrams, Process Flow Diagrams and Reviewed more than 80 Piping and Instrumentation Diagram for Catalytic Cracked gasoline Hydrotreating unit and Hydrogen Generation unit for Orlen Liutuva Refinery, Lithuania.
- Performed Literature Survey on grey and blue **Hydrogen Generation Plants** worldwide to know about the major challenges faced by them.

Projects: KT Prime G+, Digital Twinning (HGU)

HDPE | Vocational Trainee | IOCL Panipat

Dec 15, 2021 – Jan 07, 2022

Mentor: **Mr. Vijay Ratan, Senior Manager, HDPE**

- Determined total energy balance of series of reactors to calculate heat dissipation by half coil jacketed vessel and outer cooler system (double pipe heat exchanger). Reviewed HDPE additivition process and made a detailed literature on HDPE additivition.
- Learned about industrial application of various unit operations such as absorption, distillation and drying. Learned about application and operating procedures of various types of pumps and valves.
- Learned overall process of producing different grades of HDPE. Learned different units from polymerization of ethylene (isothermal CSTR reactor) to palletization and solvent recovery section.

ACADEMIC PROJECT

Improving Design of Membrane-less Electrolyzer for Sea Water electrolysis for Hydrogen Production.

Mentor: **Dr. Milan Kumar, Strength of materials/engineering lab, RGIPT**

Sep 23, 2020 – May 25, 2022

- The project was focused on developing an efficient and economical electrolyzer to produce high purity Hydrogen gas for vehicular and industrial applications. Breaking Sea water into hydrogen gas and oxygen gas using electricity produced using renewable sources. The Goal was to produce an economical fuel with Zero- carbon Footprint.

ACHIEVEMENTS

Awarded 3rd Prize for Udaan-Business Plan Competition by Minister of Women and Child Development.

Mrs. Smriti Irani.

2021

Recipient of **RG IPT Merit Cum-Means Award** for consecutive 3 years.

Qualified **IIT JEE Advanced 2019**.

2019

Represented Jawahar Navodaya Vidyalaya, Karnal at Regional Science Congress 2016 organized by the

Navodaya Vidyalaya Samiti, Jaipur (14th – 19th November, 2016).

2016

SKILLS

Programming skills: Machine learning, Data analytics, Python, C

Software: ASPEN Plus, AutoCAD, Microsoft Office

Soft Skills: Leadership, Teamwork, Time-Management, Adaptability, Written and Verbal Communication.

POSITION OF RESPONSIBILITIES

Vice-President | FIPI RGIPT STUDENT CHAPTER

Present

Student Head | RGIPT Official Publicity Committee

2021-22

Vice Caption | Football Team RGIPT

Present

Publicity Coordinator | Sports fest Energia

2020