

UMANG SAXENA

Final Year, RGIPT | Chemical Engineering Undergraduate

Gender | 29/03/2001

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OBJECTIVE

A productive, hard-working and result oriented individual with excellent academic record aiming to utilize core knowledge and skills for rapid development of organization.

EDUCATIONAL BACKGROUND

COURSE	INSTITUTE	CPI/CGPA/%	YEAR
B.Tech in Chemical Engineering	Rajiv Gandhi Institute of Petroleum Technology	9.04*	2019-2023
XII, (BOARD)	Narayan College of Science and Arts, Etawah	91%	2018
X, (BOARD)	St. Mary Inter College, Etawah	10	2016

* till 6th Semester

INTERNSHIP

Unconventional Hydrocarbons prospects | DGH

July 5- August 2, 2022

Mentor: **Abhay Sharma, CGM**

- Understood unconventional hydrocarbon scenario globally and in India
- CBM production and key facets of HELP policy
- Calculation and graphical interpretation of heat and mass transfer data in coal desorption process

Petroleum Refinery Engineering | IICHE

August 8 – September 11, 2022

- Understood refinery configurations
- Hydrogen unit in refinery
- Detailed analysis of hydrocracking operation in refinery

PROJECTS

Membrane distillation integrated FO process for treatment of industrial wastewater

September 2022- Ongoing

Mentor: **Dr. Gunjan Kumar Agrahari** | Membrane Lab, RGIPT

- Synthesis of PDMS membrane for membrane distillation
- Recovery of water from draw solution that can be reused in FO
- Modelling of Membrane distillation process

Removal of phenol from petroleum wastewater via forward osmosis process

September 2021- February 2022

Mentor: **Dr. Gunjan Kumar Agrahari** | Membrane Lab, RGIPT

- Developed the model for predicting rejection of phenol on various parameters
- Experimental determination of optimum parameters (flow rate, PH value, draw solution) for achieving highest rejection of phenol.

Kinetic modelling of biodiesel production using deep eutectic solvent

September 2020- Nov 2020

- Predicted the order of trans-esterification reaction for biodiesel production
- Studied separation of bio diesel from by products

ACHIEVEMENTS AND HONOURS

- (1) Maintained 9+ CPI and among top 6 students of batch
- (2) Recipient of RGIPT Merit Scholarship for academic sessions 2019-22 for excellent academic record among 130 students
- (3) Secured All India Rank 17,700 among 1,50,000 in JEE Advanced 2019.

FIELD VISIT

Field visit at Indo Rama fertilizer industry at Jagdishpur

5 May 2022

TECHNICAL SKILLS

- **Programming Skills:** Python, Java, C, C++
- **Software:** MS Excel, MS office, PostgreSQL, AutoCAD, Aspen plus

EXTRA-CURRICULAR ACTIVITIES/PORs

- (1)- Event Management Head at AIChE Student Chapter, RGIPT *June 2021- July 2022*
- (2)- Tutor (Physical and Inorganic chemistry) at Chemical and Biochemical Engineering Department, RGIPT *Dec 2021- Feb 2022*
- (3)- Member and Executive at AIChE Student Chapter, RGIPT *August 2020*
- (4)- Social service during Corona pandemic *March 2020*
- (5)- Event Manager of Gym Event at sports fest ENERGIA 2K19, RGIPT *Feb 2020*
- (6)- Community service at villages of Amethi *Jan 2020- March 2020*
- (7)- Devoted 50+ hours over 6 months to teach the unprivileged village children under Unnati Bharat Abhiyan *Jan 2020*