

# Anshika Srivastava

Rajiv Gandhi Institute of Petroleum Technology  
Petroleum Engineering | DOB: 05-02-2005 | Female  
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## EDUCATIONAL BACKGROUND

COURSE	INSTITUTE	CPI/CGPA/%	Year
B. Tech in Petroleum Engineering	Rajiv Gandhi Institute of Petroleum Technology	8.26/10* *Up to 5 <sup>th</sup> Sem	2023-2027
Intermediate	Kendriya Vidyalaya, Raebareli	89.20%	2022
High School	Kendriya Vidyalaya, Raebareli	91.60%	2020

## INTERNSHIP & FIELD TRIP

### Research Internship, Indian Institute of Technology (ISM), Dhanbad

2<sup>nd</sup> June to 17<sup>th</sup> July 2025

#### Optimization of AOS Concentration in Guar Gum-SiO<sub>2</sub> Nanoparticle Systems in Enhanced Oil Recovery

- Conducted experimental studies on guar gum-SiO<sub>2</sub>-AOS nanofluids aimed at improving chemical EOR efficiency.
- Conducted advanced lab analysis including DLS, zeta potential, rheology, interfacial tension, and wettability tests under simulated reservoir conditions.
- Demonstrated that the optimized system maintains thermal stability, improves rock wettability, and enhances injectivity, relevant for polymer-based EOR applications.

### Geological and Industrial Field Trip

5<sup>th</sup> April to 9<sup>th</sup> April, 2025

- Visited KDMIPE (ONGC) and IDT (ONGC) in Dehradun to explore lab facilities focused on core analysis and drilling equipment.
- Examined various rock formations in the Himalayan region.

## ACADEMIC PROJECT

### Design and Application of Amine-Based Regenerated Slug for CO<sub>2</sub> Capture and Storage Application

Ongoing

- Currently working on the synthesis and characterization of thermoresponsive amine-functionalized polymers for integrated CCUS and Enhanced Oil Recovery (EOR) applications.
- Investigating LCST-based phase transitions for controlled CO<sub>2</sub> capture and regeneration.
- Aim to achieve high CO<sub>2</sub> uptake capacity with rapid regeneration and excellent thermal stability over multiple cycles.

## ACHIEVEMENTS

- Winner, Andromeda aOS buildathon- Prize: 2500 USD. 2025
- Finalist, Chromion a Chainlink hackathon. 2025
- Recipient of Reliance Foundation Undergraduate Scholarship. 2023
- Under the top 2 percentile in JEE ADVANCED examination. 2023

## POSITION OF RESPONSIBILITIES

- Student Representative of Student Alumni Interaction Committee (SAIC) | PEGE Department RGIPT 2025-Present
- Program Chairperson | SPE RGIPT Student Chapter 2025-Present
- Co-coordinator for partnership development | Social Council RGIPT 2024-2025
- Designing and Outreach Executive | SEG RGIPT Student Chapter 2024-2025
- Event Management Executive | AAPG RGIPT Student Chapter 2024-2025
- Event Management Executive | FIFI RGIPT Student Chapter 2024-2025

## SKILLS

- CMG Software, Kingdom Software, Figma, Illustrator, Photoshop
- C Programming, C++, JavaScript, Python, Blockchain, EVM, MERN Learning, UI designer