

# PROSPECTUS

## M.Tech in Petroleum Engineering

(For Foreign & Indian Nationals)



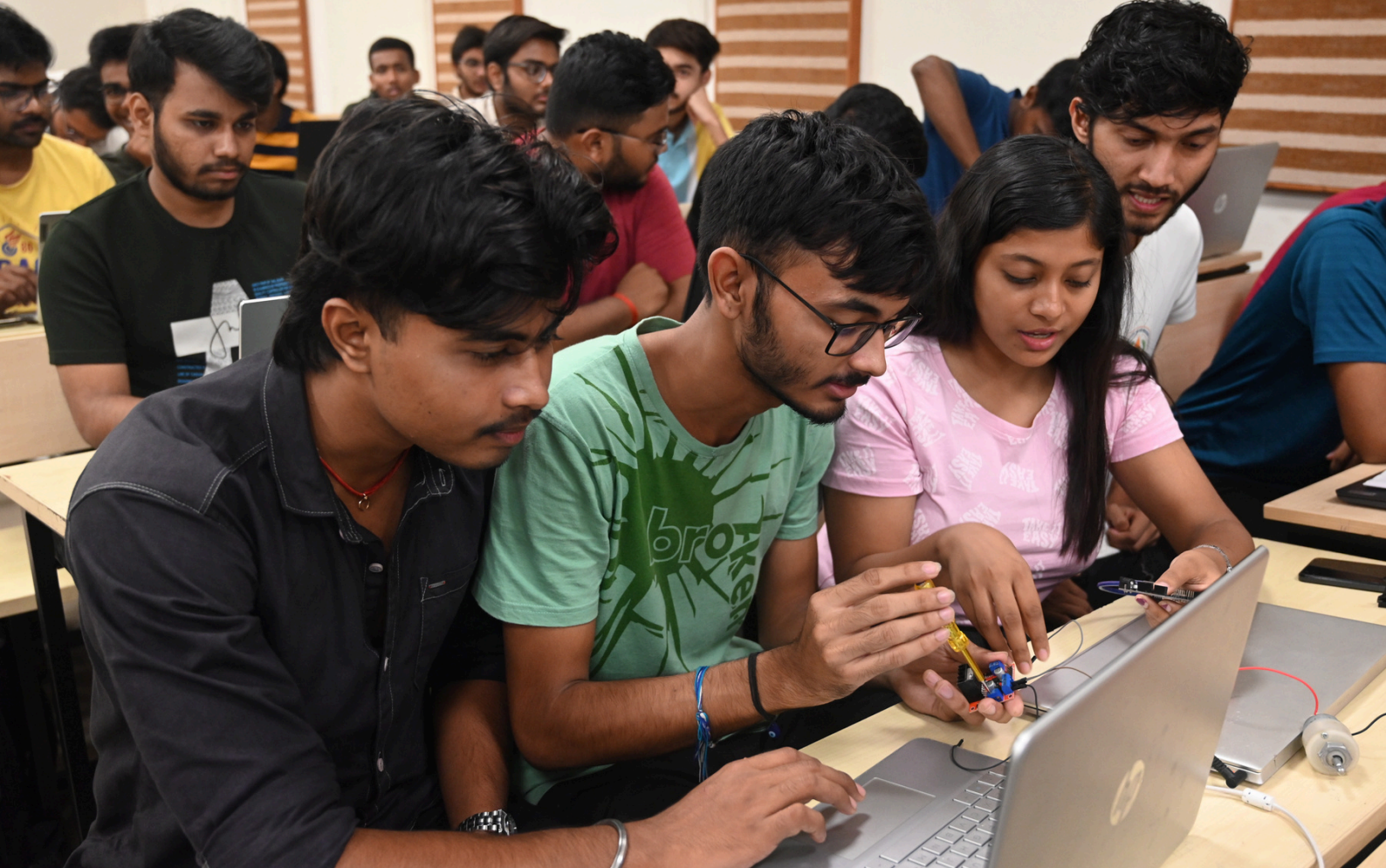


The objective of this program (**M.Tech in Petroleum Engineering**) is to provide advanced education and training in the exploration, production, and management of hydrocarbon resources.



A specialized program with advanced, industry-aligned curriculum and AI/ML applications in energy. Open to foreign nationals and sponsored candidates—no GATE required, with cutting edge laboratory and internship opportunities.





Indian Institute of Petroleum and Energy (IIPE) Visakhapatnam, established by the Government of India under MoPNG, is an Institution of National Importance dedicated to energy-focused research and education. Strategically located near major industry hubs like KG Basin and Vishakha Refinery, IIPE offers strong industry-linked academic and research opportunities.

- IIPE aims to **bridge skill gaps and boost research** in petroleum and energy through quality education at UG, PG, and PhD levels.
- IIPE **collaborates** with IITs and global institutes like Texas A&M, Petroleum Research School of Norway for research & consultancy, exchange programs, and joint research programs.
- As an energy institute, IIPE is **committed** to United Nations Sustainable Development Goals, i.e., ensuring access to affordable, reliable, and sustainable modern-day energy for all.

“IIPE is committed to research towards realizing the "Panchamrita" concoction for the climate conundrum, the climate solution offered by the Hon'ble PM of India, Mr. Narendra Modi, at the COP26 convention in Glasgow. IIPE facilitates the students to acquire knowledge helps them develop skills and experience, and cultivates a socially-responsible research mindset. IIPE strongly values the IKIGAI, or sense of purpose, of its stakeholders”

**Professor Shalivahan**, Director, Indian Institute of Petroleum and Energy, Visakhapatnam





## Department of Petroleum Engineering and Earth Sciences

“Department of Petroleum Engineering & Earth Sciences at IIPE leads in energy innovation, combining cutting edge research with a strong focus on sustainability to develop solutions that meet global energy needs while protecting the environment”

Founded in 2016, the Department of Petroleum Engineering is committed to delivering a rigorous and comprehensive education that equips students with the expertise and competencies required to excel as highly skilled professionals in the field of Petroleum Engineering and Earth Sciences.

Department offers a range of academic programs, including B.Tech in Petroleum Engineering, M.Sc. in Applied Geology, M.Tech in Petroleum Engineering, and Doctoral degrees.

### Programs

- BTech in Petroleum Engineering through IIT JEE Advanced
- MSc in Applied Geology through IIT JAM
- MTech in Petroleum Engineering for foreign and national students
- Doctoral Program

### Student Chapters

- Society of Petroleum Engineer (SPE) student chapter.
- American Association of Petroleum Geologists (AAPG) student chapter.
- Federation of Indian Petroleum Industry (FIPI) student chapter

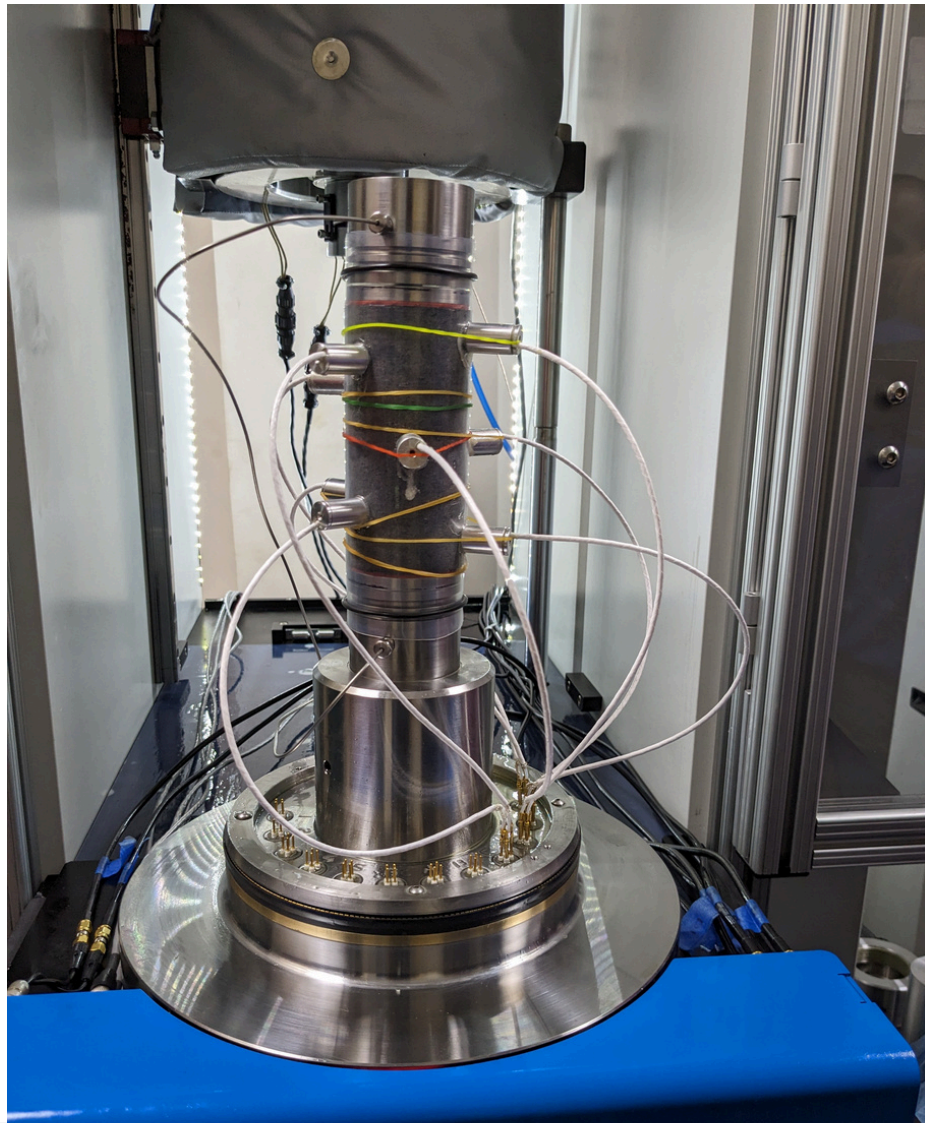
### Library

- The library houses more than 30,000 books which cover more than 8000 titles.
- The library subscribes to a wide range of international and national journals, newspapers, and magazines, and also offers access to an extensive digital library facility.
- Journal articles and eBooks were provided for access to the students by I.P based and domain-based access



## Research & Practice

The Department of Petroleum Engineering and Earth Sciences at the Indian Institute of Petroleum and Energy (IIPE) is deeply involved in advanced research across key domains such as enhanced oil recovery, reservoir engineering, unconventional energy resources, geophysical exploration, and sustainable energy solutions. Faculty and scholars actively collaborate with industry and government agencies on cutting-edge projects and offer expert consultancy services in exploration, drilling, production, and geosciences.



The department is equipped with state-of-the-art research facilities and laboratories, including core analysis labs, drilling fluid labs, rock mechanics labs, and advanced geoscience software tools. These facilities support both academic research and industrial consultancy, reinforcing IIPE's role as a hub for innovation and applied research in the energy sector.







## Executive Development Program and Outreach Activities

The Department of Petroleum Engineering and Earth Sciences at the Indian Institute of Petroleum and Energy (IIPE) actively engages in Executive Development Programs and outreach initiatives aimed at knowledge dissemination and industry collaboration. These programs are designed to upskill professionals, foster industry-academia interaction, and promote awareness on energy sustainability and emerging technologies.



Outreach activities include workshops, seminars, training sessions, and collaborative projects with industry partners, government bodies, and academic institutions, ensuring a broad impact across the energy sector.



# M.Tech in Petroleum Engineering

A two-year academic program designed for **Indian and International candidates**, including sponsored applicants, with a total intake capacity of 20 students.

## Program Overview

Duration	I Semester	II Semester	III Semester	IV Semester
02 Years	05 Core courses & 01 Practical	01 Core course, 04 Electives & 01 Practical	Dissertation	

**Core Courses** includes Petroleum Geology, Applied Reservoir Engineering, Applied Hydrocarbon Production Engineering, Drilling Technology, Formation Evaluation & Applied Reservoir Simulation. Students can choose from an extensive list of **elective courses**.

- ✓ Carbon Capture Storage and Utilization
- ✓ Flow Assurance
- ✓ Data Science
- ✓ Big Data Management
- ✓ Artificial Intelligence & Machine learning
- ✓ HPHT Drilling & Completion Fluid
- ✓ Alternate Energy Resources
- ✓ Hydrogen Energy
- ✓ Environmental Engineering
- ✓ Applied Gas Engineering
- ✓ Applied Well stimulations techniques
- ✓ Applied Numerical Modelling

**Selection Procedure:** Eligible candidates must appear for a interview.

## Eligibility Criteria

- **For Foreign Nationals:** Bachelor's in Engineering/Technology or Master's in Sciences with strong academics; Statement of Purpose (SOP), references, and experience (if any) required. UG degree holders from India must have a valid GATE score or attend an online interview.
  - **Indian Nationals:** 4-year B.Tech/B.E. in Petroleum, Petrochemical, Chemical, Electrical, Mechanical, Industrial & Manufacturing Engineering, or Civil Engineering with minimum first class or 60% or 6.0 CPI (55% for SC/ST); valid GATE score required.
  - **Sponsored Candidates:** B.Tech/B.E. in relevant fields or M.Sc. in Geology/Geophysics with minimum first class or 60% or 6.0 CPI (55% for SC/ST); must submit NOC from sponsoring organization.
- \*\* No STIPEND will be provided\*\***





## Admission and Aid

Visit our Admission page on [www.iipe.ac.in](http://www.iipe.ac.in)

Application portal link: [https://erp.iipe.ac.in/IIPEApp/index?admiss\\_ch=05](https://erp.iipe.ac.in/IIPEApp/index?admiss_ch=05)



Scan the QR Code for apply

- Register with your email ID and log in. Fill in the required details and upload relevant documents, including your photo and signature, as specified.
- The application fee payment must be made through online payment gateway only.
- After final submission, generate and retain a printout of your application for future reference. No need to send it by post. All updates, including shortlisting and selection, can be tracked via the Application Status menu using your login credentials.

## Course Fee

Indian National

Rs 48,600/-

Indian National (Reserved category)

Rs 28,600/-

Indian National (Sponsored category)

Rs 4,04,688/-

Foreign National (ICCR/SAARC Countries)

USD 4,800

Foreign National (Non-SAARC/Self Sponsored)

USD 8,800

Application Deadline

22 / 06 / 2025

Date of Interview

30 / 06 / 2025

Result declaration

01 / 07 / 2025

Commencement of classes

12 / 08 / 2025

- Accommodation Fee (Double Occupancy):  
Rs 1,25,000/ for Indian National and USD 1600 for Foreign National
- Mess/ food fee will be extra as per actuals
- Fee structure and fee amounts are subject to change from time to time.

## Contact Us

email: [doa@iipe.ac.in](mailto:doa@iipe.ac.in)/ [hod.pe@iipe.ac.in](mailto:hod.pe@iipe.ac.in)/ [pgadmissions@iipe.ac.in](mailto:pgadmissions@iipe.ac.in)





Campus life at IIPE is a vibrant and enriching experience that extends beyond academics, offering students a holistic environment for personal and professional growth. Nestled in the coastal city of Visakhapatnam, the campus fosters a close-knit community where students from diverse backgrounds come together to learn, innovate, and collaborate.

IIPE provides a well-rounded student experience with modern amenities, including comfortable hostels, sports facilities, well-equipped classrooms, advanced laboratories, and a central library with extensive digital and physical resources. The institute actively encourages participation in extracurricular activities, including cultural events, technical fests, student clubs, and community outreach programs.





# Campus Life

## Music Arts Dance and Dramatics Club

The Music, Arts, Dance, and Dramatics Club at IPE nurtures student talent in performing and visual arts, offering a vibrant platform for creative expression.

## Sattva The Quizzing

Sattva, the Quizzing Club of IPE, promotes a culture of curiosity and knowledge through engaging quiz competitions and intellectual challenges.

## Literary Club

The Literary Club at IPE fosters a love for reading, writing, and public speaking, encouraging students to express themselves through language and literature.

## Coding Club

The Coding Club at IPE empowers students to enhance their programming skills through hands-on projects, coding challenges, and tech-driven collaboration.

## Photography Club

The Photography Club at IPE provides a creative space for students to explore and express their passion for photography through workshops, photo walks, and exhibitions.

## Field Trip

The Field Trips offer students experiential learning opportunities through educational excursions, connecting academic concepts with real-world applications.

## Social Welfare Activities

The Social Welfare Activities Club at IPE strives to promote community service and social responsibility through outreach programs and initiatives aimed at making a positive societal impact.

## Sports and Cultural activities

The Sports and Cultural Activities at IPE provide students with opportunities to engage in athletic competitions, cultural events, and recreational activities, promoting physical fitness and creative expression.





# Visakhapatnam- The City of Destiny

Visakhapatnam, also known as Vizag, is a vibrant coastal city in Andhra Pradesh, known for its scenic beaches, rich cultural heritage, and growing industrial and educational hubs. It is well-connected to major Indian cities like Delhi, Mumbai, Bangalore, Chennai, and Hyderabad through frequent flights, trains, and highways.

The city is safe and welcoming for foreigners, with a friendly local population.

Visakhapatnam enjoys a tropical climate with moderate winters and humid summers, and pleasant coastal breezes throughout much of the year.



Food options range from traditional South Indian cuisine to a variety of multi-cuisine restaurants, including vegetarian and international food. City life in Vizag offers a blend of natural beauty and urban convenience, with shopping malls, entertainment centers, cultural landmarks, and a growing café culture, making it an ideal environment for both study and leisure.





