



IADC
INDIAN INSTITUTE OF TECHNOLOGY
STUDENT CHAPTER



2025



CENTENARY WORKSHOP

FROM CORE TO RESERVOIR:

WORKSHOP ON SCAL

ORGANISED BY:

IADC IIT ISM Student Chapter &
SPE IIT ISM Student Chapter
Department Of Petroleum Engineering,
IIT (ISM) Dhanbad

MODE: HYBRID

DATE:

1st – 2nd November,
2025

VENUE:

Department Of
Petroleum Engineering,
IIT (ISM) Dhanbad

About the Department and Program



Established in 1926 on the lines of the Royal School of Mines, London, IIT (ISM) Dhanbad, formerly the Indian School of Mines, has grown into a premier multi-disciplinary institute recognized among the best engineering institutes in India.

The Department of Petroleum Engineering, founded in 1957, has played a pioneering role in shaping the nation's oil and gas sector. Guided by eminent educators, industry

leaders, and scientists, the department has emerged as a hub for advanced teaching and research in petroleum engineering. It offers B.Tech, M.Tech, and Ph.D. programs, ensuring high-quality education comparable to global standards. The department provides state-of-the-art R&D facilities and actively collaborates with leading industries and academic institutions worldwide. Faculty members are engaged in cutting-edge research across EOR, unconventional hydrocarbons (CBM, shale gas, gas hydrates), reservoir simulation, data analytics, reservoir characterization, geomechanics, and geothermal energy. Research spans both fundamental studies and field-ready technologies.

Students remain closely connected with the Exploration & Production (E&P) industry through guest lectures and interactions with global experts, facilitated by the department and student chapters of professional bodies like IADC, SPE, and FIPI.

About the Workshop

The oil and gas industry is highly capital-intensive and complex, spanning exploration, recovery, production, and treatment. These operations involve uncertainties that demand advanced technology, major investments, and expertise from geologists, geophysicists, scientists, drilling contractors, and engineers. Understanding reservoirs, subsurface formations, and surface facilities is essential to maximize productivity.

To support industry professionals, the Department of Petroleum Engineering, IIT (ISM) Dhanbad, is organizing a Special Core Analysis (SCAL) Workshop. This 3-day program offers in-depth knowledge of SCAL techniques and their role in reservoir engineering. Key methodologies covered include wettability, capillary pressure, and relative permeability (gas-oil and water-oil) measurements.

The workshop equips participants with practical skills in planning SCAL programs, selecting representative cores, generating accurate data, and refining laboratory results for effective integration into reservoir simulations and engineering decisions. It also addresses challenges in obtaining representative measurements and interpreting data.

Designed for reservoir engineers, geoscientists, and industry professionals, the program enhances expertise in SCAL and its application to optimize hydrocarbon recovery.

Course Coverage

- Introduction to special core analysis.
- Selection of core samples for SCAL and rock typing.
- Capillary pressure measurements, initial water saturation distribution and reconciliation of Swi data.
- Water –oil and gas-oil relative permeability lab procedures, averaging, refining and integrating lab results.
- Residual oil saturation lab results review, its relationship with rock types and deriving representative Sor data for use in engineering calculations.
- SCAL Data integration in reservoir simulation.
- Quality control and validation of SCAL data.

Organisers & Speakers

- Prof.Pawan Gupta, Assistant Professor, IIT(ISM) Dhanbad
- Prof. Neetish Maurya, Assistant Professor, IIT(ISM) Dhanbad

Our External Speakers

- Mr.DK Nautiyal, Ex-Executive Director ONGC
- Mr.DC Tewari, Ex- General Manager (Reservoir), ONGC

Objective of the Course

- Enhance the technical expertise of professionals in the oil and gas exploration and production (E&P) sector.
- Provide a comprehensive understanding of coring techniques, core analysis, and their application in both conventional and unconventional reservoirs.
- Develop practical skills in core handling, data interpretation, and reservoir simulation.
- Integrate fundamental principles with advanced technologies.
- Promote industry best practices and quality control.
- Foster collaboration between engineers, geoscientists, academicians, and industry experts to drive innovation and improve decision-making in E&P operations.

Benefits of Certified Course

- Learn modern workflows and methodologies shaping the oil & gas industry.
- Stay updated on trends driving SCAL innovations.
- Bridge theory and practice with hands-on learning and real-world cases.
- Network with industry experts, peers, and leaders.
- Enhance understanding of SCAL for optimizing reservoir performance and recovery.

Who should attend?

Industry Professionals: Individuals engaged in research or applying research methods to real-world challenges, decision-making, and strategic planning.

Students, Faculty & Researchers: Students, academicians, and research scholars across disciplines seeking to deepen their understanding and application.

Sponsorship opportunities

Title Sponsor : 50,000

Promotion will be done through our banners, standees, posters and social media platform.

Registration Fees

Registration fees including GST(18%) is given here:

Secure your spot in this intensive one week course and elevate your understanding of the current workflows propelling the oil and gas industry forward.

Don't miss the opportunity to sharpen your skills and contribute to the industry's future success!

1.	Industry Professionals	8000 + 18% GST
2.	Academicians	6000 + 18% GST
3.	PHD Scholars	2500 + 18% GST
4.	M.Tech	1500 + 18% GST
5.	B.Tech	500 + 18% GST

Contact us

Convener

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Bank details for payment

Name of the Account Holder	IIT ISM CEP ACCOUNT
Complete Contact Address	Indian Institute of Technology (Indian School of Mines), Admin. Block, Dhanbad-826004 Jharkhand
Telephone / Email	Tel: 0326-2235624 & 5203 Email: dcep@iitism.ac.in officeofdcep@iitism.ac.in
Bank Name	CANARA BANK
Branch Address	Canara Bank, Saraidhela Branch, Shree Shyam Bhawan Main Road, Distt-Dhanbad, Pin-828127 (Jharkhand) (0326) 2202173 Email: cb0986@canarabank.com
Bank Account No.	110261358281
IFS CODE	CNRB0000986
UPI ID	333670637358281@cnrb

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For any queries and issue contact at
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Deadline for Registration :
15th October, 2025



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