

About the Workshop

The workshop is designed to provide comprehensive training on five key instruments: TPR (Temperature Programmed Reduction), HPLC (High-Performance Liquid Chromatography), TOC (Total Organic Carbon), Electrochemical Workstation, and COD/BOD/OD (Chemical Oxygen Demand/Biochemical Oxygen Demand/Oxygen Demand). These instruments are pivotal in energy and environmental research, offering precise measurements and analyses crucial for advancements in these fields. The workshop will benefit researchers across various disciplines by equipping them with practical skills and knowledge essential for conducting cutting-edge research. Participants will gain hands-on experience, enhancing their ability to perform accurate and reliable measurements, leading to more robust and impactful research outcomes. Moreover, the workshop will foster a deeper understanding of catalyst behavior and reaction mechanisms, improving the development and optimization of catalysts for energy and environmental applications. This interdisciplinary approach will drive innovation and collaboration, ultimately contributing to sustainable solutions and advancements in both scientific and industrial contexts.



Instruments to be Covered

- TPR (Temperature Programmed Reduction)
- HPLC (High-Performance Liquid Chromatography)
- TOC (Total Organic Carbon)
- Electrochemical Workstation
- COD/BOD/DO (Chemical Oxygen Demand/Biochemical Oxygen Demand/Dissolved Oxygen)

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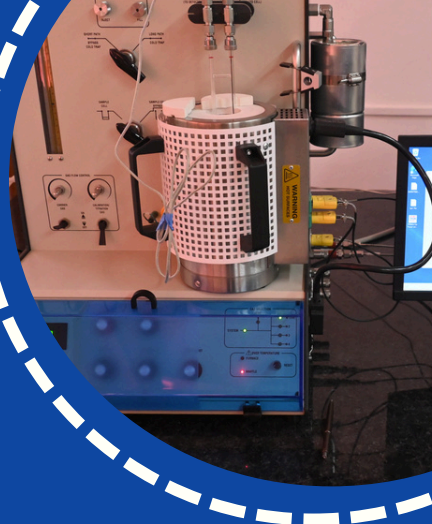
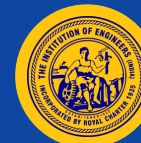
Prof. Madhu Agarwal, ChED
Dr. Nand Kumar, Dept. of Arch
Dr. V. Subbaramaiah, ChED
Dr. Sundeep Kumar, DMS
Dr. Shiv Om Meena, ChED

Coordinators

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Dr. Vijayalakshmi Gosu, ChED
Dr. Ramdayal Panda, ChED
Dr. Bikashbindu Das, ChED

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- Dr. Meena, MIT Jaipur



A Workshop On

**Hands on Practice on Advanced
Analytical Instruments for Energy
and Environment Applications**

April 14-18, 2025



Organized By

Department of Chemical Engineering
Malaviya National Institute of Technology
Jaipur

In Association with

AMRUT Funded Centre of Urban Planning,
IIChE Jaipur Chapter, and Institution of
Engineers (India) Rajasthan State Centre,
Jaipur



About MNIT Jaipur

The institute was established in 1963 with the name Malaviya Regional Engineering College, Jaipur, as a joint venture of the Government of India and the Government of Rajasthan. Subsequently, on June 26, 2002 the college has been given the status of National Institute of Technology and on 15 August 2007, proclaimed as nstitute of national importance through the act of parliament. The campus spreads over 317 acres of lush green area in the central location of Jaipur city and is imaginatively laid out with a picturesque landscape. The Institute offers undergraduate and postgraduate (B.Tech., B.Arch., M.Tech., M.Arch., M.Sc., MBA, and PhD) programs to about 4500 students in the leading fields of Engineering, Technology, Architecture, Management, and Science. The institute is fully funded by the Ministry of Education (MoE), Government of India.

Registration Details

Registration Fee

| | MNIT | Academic (Outside) (INR) | Industry (INR) |
|---------------------------------|------|--------------------------------|-------------------|
| UG | 500 | 800 | |
| PG/PhD | 500 | 1200 | - |
| Faculty/Scientist/ Engineers | 2000 | 2000 | 4000 |



Payment Details

A/C Name: Registrar (Sponsored research) MNIT Jaipur

Account no: 676801700388

IFSC code: ICIC0006768

Bank name: ICICI Bank Ltd., MNIT Jaipur



Registration Deadline: April 12, 2025

Registration Form:

<https://forms.gle/awx6Rr8YYqdN6snB9>



Accommodation

- No TA/DA will be provided to the participants.
- Limited accommodation (payment basis) can be arranged on a shared basis in the Guest House/Hostel at MNIT Jaipur on a first-come, first-served basis.



Outcome of Workshop

- Faculty members will gain practical experience with cutting-edge instruments, enhancing their teaching methodologies and research capabilities.
- Research scholars, including PhD, PG, and UG students, will acquire essential hands-on skills, improving their experimental techniques and boosting their academic profiles.
- Scientists, engineers, educationists, and managers from industry and R&D organizations will benefit from the latest advancements in analytical technology, enabling them to innovate, optimize processes, and drive sustainable solutions




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Tentative List of Speakers

- Prof. Madhu Agarwal
- Dr. Bikashbindu Das
- Dr. Ramdayal Panda
- Dr. V. Subbaramaiah
- Dr. Lovjeet Singh
- Dr. Vijayalakshmi Gosu