

ABOUT THE WORKSHOP

This two-day hands-on training workshop is designed to provide participants with practical exposure to advanced analytical instruments widely used in research and industry. The sessions will cover the working principles, instrumentation, sample preparation, operation, data analysis and troubleshooting of HPLC, FT-IR and Optical Microscope.

OBJECTIVES

- ✓ To provide hands-on training on advanced instruments.
- ✓ To enhance technical skills in operation and data interpretation.
- ✓ To promote quality research through capacity building.
- ✓ To foster a culture of Scientific Social Responsibility (SSR).

WHO CAN APPLY?



UG/PG students, Research Scholars, Faculty members and young researchers from academic institutions and industries interested in analytical techniques.

KEY HIGHLIGHTS

- Hands-on sessions on HPLC, FT-IR and Optical Microscope
- Small batch size for individual attention
- Expert guidance by experienced faculty
- E-certificate to all registered participants
- Training under the umbrella of Scientific Social Responsibility (SSR)

CONTACT PERSONS

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REGISTER HERE



Scan to Register

<https://shorturl.at/X7WJ9>

or visit

<https://forms.gle/Duiiyen8hSYAdsPr6>

TECHNICAL COVERAGE



HPLC (High Performance Liquid Chromatography)

- Principle and instrumentation
- Method development
- Sample preparation
- Instrument operation
- Data analysis and interpretation
- Troubleshooting



FT-IR (Fourier Transform Infrared Spectroscopy)

- Principle and instrumentation
- Sample handling techniques
Data peaks, ATR
- Spectral acquisition
- Data interpretation
- Applications



Optical Microscope

- Principle and parts
- Sample preparation
- Bright field, Dark field and phase contrast techniques
- Imaging and analysis

Note: Participants are encouraged to bring their own laptop for hands-on sessions.

Department of Chemistry MNIT Jaipur, Rajasthan



ANRF SPONSORED

TWO-DAY HANDS-ON TRAINING WORKSHOP

ON

ADVANCED INSTRUMENTS

(HPLC, FT-IR AND OPTICAL MICROSCOPE)

under

SCIENTIFIC SOCIAL RESPONSIBILITY (SSR)



HPLC



FT-IR



OPTICAL MICROSCOPE



16-17 JULY 2026

Organized by

Dr. Manviri Rani
(Coordinator)

Department of Chemistry



MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR

J.L.N. Marg, Jaipur - 302017, Rajasthan, India

IMPORTANT DATES



- Registration Opens : 01 July 2026
- Confirmation of Selection : 12 July 2026
- Workshop Dates : 16-17 July 2026



REGISTRATION

- Registration is FREE but mandatory.
- Maximum of 50 participants are allowed.
- Selection will be on first-come, first-served basis.
- Online registration link/QR code is available on the institute website.



VENUE

Seminar Room, Department of Chemistry
Malaviya National Institute of Technology Jaipur
J.L.N. Marg, Jaipur - 302017
Rajasthan, India

Join us to explore, learn and innovate
with advanced instruments!

16-17 JULY 2026

Let's build capacity for a better society
through science and technology.