

# Short Term Training Program on Scanning Electron Microscope

**September 15-19, 2025**



Organized by  
**Materials Research Centre**

**Malaviya National Institute of Technology Jaipur**  
**JLN Marg, Malviya Nagar, Jaipur-302017**

[www.mnit.ac.in](http://www.mnit.ac.in)

## About the Program

- The program involves demonstration and operation illustration of scanning electron microscope (SEM) in the laboratory, where the participants will gain hands-on experience in using SEM.
- Participants will get an opportunity to operate the SEM themselves under the supervision of the concerned technical staff from MRC.
- The program will focus on the working principle, construction and applications of SEM, all of which will be explained in the lab sessions with appropriate tools and techniques.
- At the end of the program, the participant will be able to prepare samples for SEM, be confident in setting up the sample in SEM, imaging and interpreting the data.



## Chief Patron

Prof. Narayana Prasad Padhy  
Chairman (I/C), Board of Governors, and  
Director, Malaviya National Institute of  
Technology Jaipur

## Convener

Dr. Bhagwati Sharma  
*Head, Materials Research Centre*

## Coordinators

Prof. Kanupriya Sachdev  
*Professor, Materials Research Centre*

Prof. Ragini Gupta  
*Professor, Materials Research Centre*

Dr. Neetu Kumari  
*Assistant Professor, Materials Research Centre*

## Organizing Committee

Mr. Mohtashim Reza  
*Scientific Officer, Materials Research Centre*

Mr. Chetanya Prakash  
*Scientific Officer, Materials Research Centre*

Mr. Atul Sharma  
*Technical Assistant, Materials Research Centre*

Mr. Bhupesh Kumar Sharma  
*Technical Assistant, Materials Research Centre*

Mr. Rahul Meena  
*Technician, Materials Research Centre*

## About MNIT Jaipur

MNIT Jaipur is one of the premier NITs, designated with the status of “Institute of National Importance” by MHRD. The institute was established in 1963, and its campus spreads over 325 acres of lush green area in the central location of Jaipur city. The institute offers UG and PG courses (B.Tech., M.Tech. /MBA/ M.Sc. & Ph.D.) to about 5000 students, in leading fields of engineering, technology, architecture, management & sciences. The institute is actively engaged in research, consultancy and developmental activities, besides imparting regular teaching. MNIT Jaipur was ranked 43<sup>rd</sup> position in NIRF ranking 2024.

## Materials Research Centre

Materials Research Centre (MRC) aims to harness the talent resources of MNITJ for promoting interdisciplinary research in appropriate materials technologies. It has been created with an objective of providing a central facility of latest and advanced analytical instruments for research in the application areas of physical, environmental, chemical, allied and interdisciplinary sciences and Technology. MRC provides access to a wide range of state-of-the-art equipment necessary for materials characterization such as NMR, Mass, XRD, XPS, TEM, SEM, AFM etc. The Centre also offers Ph.D. program in Materials Science and Engineering.

## Aim of the Program

The content of this training program is designed in a manner that a trainee will readily meet the laboratory research and industry requirements. During the training, ample time will be provided to every trainee for hands-on experiences on the instrument to become well-versed with all the practical aspects of the instrument and its mechanical functioning. The sessions will include practical demonstrations on the alignment of the microscope, sample preparation, sample loading, scanning of the sample, and micrographs/data acquisition, along with precautions to be taken while working on the SEM.

## Important Dates

Last date for online registration: 05.09.2025 (5 pm).  
Registration confirmation will be intimated to the participant via e-mail.

## Contact Persons

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## How to Apply

Registration is open to faculty members, PDF, RA, Ph.D., PG and UG students. You can submit your application through following link:

<https://docs.google.com/forms/d/1QkKGCzmofsQZrDm8mwccippoFUKIf6tttd5ZtQA90zU/edit>

The participation fees (including 18% GST) for taking the course is as follows:

- ☐ Research Scholars, PG and UG students: Rs. 5900/-
- ☐ Faculty Members from Academic Institutions: Rs. 7080/-
- ☐ Participants from Industry/ Research Organizations: Rs. 8260/-

### Payment mode: NEFT/IMPS

Account Details:

Registrar, MNIT Jaipur

Account No. 676801700388, ICICI Bank, MNIT Jaipur,  
IFSC: ICIC0006768

\*The number of participants for the course is limited to 15 and will be selected on first-cum first-served basis.

\*Participants need to pay the registration fees after confirmation of their selection.