

**Two Days Workshop  
on  
Nuclear Magnetic Resonance (NMR)  
Spectroscopy**

**30<sup>th</sup> Sept – 1<sup>st</sup> Oct 2024**

**Conducted by Jeol India Pvt. Ltd.**



Organized by  
**Materials Research Centre**

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

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

**Objective of Course**

The workshop aims to explore current research trends in NMR spectroscopy while highlighting JEOL's latest innovations and advancements in their NMR product line. It will provide researchers and aspiring NMR scientists with valuable insights to drive advanced research in cutting-edge and emerging areas of NMR spectroscopy.

The event will feature a diverse lineup of speakers from JEOL INDIA, showcasing the capabilities of the NMR instrument facility.

Nuclear Magnetic Resonance (NMR) is one of the most versatile instruments for elucidation of structure of compounds. ECS 400 MHz (JEOL) NMR spectrometer is a 2- channel console with a flexible broad band RF performance. Majorly it is capable of providing spectra of a variety of NMR active nuclei such as  $^1\text{H}$ ,  $^{13}\text{C}$ ,  $^{19}\text{F}$ , etc and metals like Sn, Cu in distinct chemical environments without any time delay. NMR has revolutionized the practice of chemistry & medicine by providing fast, non-destructive & non-invasive means for the observation of matter from the atomic to the macroscopic scale.



**Organizing Committee**

**Patron**

Prof. N. P. Padhy  
(Director, MNIT Jaipur)

**Conveners**

Dr. Nisha Verma (Head, MRC)  
Prof. Ragini Gupta  
Prof. Kanupriya Sachdev  
Dr. Bhagwati Sharma

**Coordinators**

Mr. Chetanya Prakash  
Mr. Mohtashim Reza  
Dr. Bhagwan Sahai Yadav

**Lab Representative**

Ms. Pooja Agrawal

**Student Representatives**

Mr. Rahul  
Mr. Kunal Rohilla  
Ms. Preeti  
Ms. Rashmi Jairiya

**Contact Persons**

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## 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.

## About 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. programme in Materials Science and Engineering.

## Topics to be covered

- An Introduction to NMR Spectroscopy; Basics & Instrumentation & Practical Aspects (Solution)
- An Introduction to NMR Spectroscopy; Basics & Instrumentation & Practical Aspects (Solid State)
- Solution State NMR: Application Targeting Materials Research
- Solid-State NMR: Application Targeting Materials Research
- JEOL DELTA & JASON: An analytical tool for chemists
- Hands on NMR Training / MRC Labs Tour

## Resource Persons / Speakers

**Mr. Srinivasa L. Poojary**

NMR Application Specialist, Jeol India Pvt. Ltd.

**Dr. Yusuke Nishiyama,** Solid State NMR

Application Specialist, Jeol Ltd., Japan

## Targeted Participants

Faculty members from engineering institutes/universities, Ph.D. Research Scholars and M. Sc./ M. Tech students etc.

## Number of Participants

Number of participants is limited for the workshop. Application will be accepted on *first cum-first serve basis*.

## Important Dates

Last date for online registration: 28.09.2024 (5 pm)  
Registration confirmation will be intimated to participant via e-mail.

## How to Apply

Two Days Workshop

on

**Nuclear Magnetic Resonance (NMR) Spectroscopy**

30<sup>th</sup> Sept – 1<sup>st</sup> Oct 2024

Materials Research Centre, MNIT Jaipur – 302017 Rajasthan

## Registration

### Registration Fees:

The participation fee including GST for different participants is:

1. Students (UG/PG/PhD): Rs. 600/-
2. Other Participants: Rs. 850/-

### Payment mode: NEFT/IMPS

Account Details:

Registrar, MNIT Jaipur

Account No. 676805000011, ICICI Bank,  
MNIT Jaipur, IFSC: ICIC0006768

### Registration Link:

<https://forms.gle/EPjvzvGtLqAZt6CV6>