

Summer Internship Programme (SIP-2026)

(18th May - 26th June 2026)



Organized by

**Department of
Electronics and Communication
Engineering**

at

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

Website: <https://www.mnit.ac.in/>

About the MNIT Jaipur

The Malaviya National Institute of Technology Jaipur is one of the National Institutes of Technology established by the Ministry of Human Resource Development, Government of India. The Institute, earlier known as MREC, was founded in 1963 as a joint venture of the state and central governments. In 2002, it was granted the status of a National Institute of Technology, and on August 15, 2007, it was declared an Institute of National Importance through an Act of Parliament.

The MNIT campus spreads over 325 acres of lush green land in a prime location of Jaipur. At present, in addition to research, consultancy, and developmental activities, the Institute offers undergraduate and postgraduate (M.Tech., M.Sc., and Ph.D.) programs to about 5000 students across almost all major fields of engineering, technology, management, and sciences.



About the Department

Department of ECE, one of the institute's largest departments, offers B.Tech., M. Tech. and PhD programs with a strong focus on practical learning. It also supports part-time doctoral research for professionals from industry and academia. Faculty members are actively engaged in consultancy, sponsored research projects funded by agencies such as Ministry of Electronics & IT, DST, DRDO, ISRO and other reputed organizations. The department also conducts training programs and workshops to keep pace with evolving industry trends, with research specializations spanning VLSI design, Embedded Systems and Communication Engineering.

About the Internship

The programme is designed to foster skill development by enhancing participants' research capability, critical thinking, and problem-solving abilities under expert guidance. It provides opportunities to engage in innovative, research-oriented projects aligned with the expertise of MNIT faculty, along with personalized one-to-one mentorship. Participants also benefit from academic networking with peers, faculty members, and professionals, while gaining valuable exposure to research methodologies and higher education pathways, contributing to their overall professional growth.

Patron

Prof. N. P. Padhy
Director, MNIT Jaipur

Convener

Prof. M.M. Sharma, HoD ECE

Coordinators

Prof. Ghanshyam Singh
Dr. Kuldeep Singh
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Department of Electronics and Communication Engineering
MNIT Jaipur, JLN Marg, Malviya Nagar, Jaipur -302017

Course Contents

➤ Prof. M. M. Sharma

RF & Microwave Engineering, Microstrip and Smart Antennas, Wireless Communication, Frequency Selective Surfaces, Reconfigurable and Circularly Polarized Antennas, EM Simulation (HFSS/CST).

➤ Prof. Ghanshyam Singh

Photonics and Optical Communication, Quantum Optical Components, Nanophotonics, Integrated Photonics, Optical Sensors, AI in Photonics.

➤ Dr. Rajendra Mitharwal

Computational Electromagnetics, RF & THz Devices, EMI/EMC Analysis, Quantum Computing Basics, EM Simulation Tools.

➤ Dr. Kuldeep Singh

Machine and Deep Learning, Computer Vision, Biometrics, Cyber Security, Medical Image Analysis (Python-based).

➤ Dr. Hemant Sharma

Signal & Image Processing, AI/ML Applications, IoT Systems, Computer Vision, Biomedical Signal Analysis.

➤ Dr. Bharat Choudhary

Analog & Digital VLSI Design, Low-Power VLSI, Microelectronics, Nanoelectronics Modeling, TCAD and EDA Tools.

➤ Dr. Arun Kumar

Computational Nanoelectronics, Device Modeling (TCAD), Reliability Analysis, Statistical Modeling, TCAD-Aided Machine Learning.

❖ Applicants may opt for the internship under only one faculty mentor.

❖ The actual course content may vary based on the candidate's interests and the duration of the programme (4–6 weeks).

Programme Overview

The programme is open to undergraduate students from reputed institutions including NITs, IISERs, CFTIs, and other universities, who are required to apply through a registration form.

SIP–2026 is designed to provide participants with comprehensive exposure to both theoretical and experimental research domains in electronics and communication engineering. Under the guidance of experienced faculty members of the Department of ECE, MNIT Jaipur, participants will work on research-oriented problems in emerging areas such as VLSI, RF & Microwave, AI/ML, Photonics, Signal Processing, and Nanoelectronics.

The programme emphasizes hands-on learning, simulation and experimental work and the use of advanced tools and techniques, enabling participants to strengthen their technical skills, research aptitude, and problem-solving abilities. It also provides a platform for academic interaction, mentorship and professional development, preparing students for higher studies and research-oriented careers.

Eligibility

- Undergraduate students (preferably B.E./B.Tech. 2nd/3rd year) with minimum 70% marks or 6.5 CGPA.

Important Dates

- **Start date of application: 06th May 2026**
- **Last date of application: 15th May 2026**

Registration Fee

B.Tech. (II/III Year) : Rs.15,000/- + Rs.2700/- (18%GST)

Payment Mode

Payment for the internship fee can be done using the QR code or by online payment in the following bank account: A/C Name:

Registrar,

Sponsored Research,

MNIT Jaipur

A/c No.: 676801700388

Bank Name: ICICI Bank

IFSC Code: ICIC0006768

Branch: MNIT Jaipur



After completing the payment, upload the payment receipt in the provided Google Form. All applicants must register by submitting their details through the given Google Form Link: <https://forms.gle/yTBDAgeVrvAoJz5v7>

General Information

- Accommodation (subject to availability) will be provided in hostels/guest houses on sharing/single basis; food and travel expenses are to be borne by participants.
- Hostel and messing charges will apply as per institute norms.
- Candidates should visit the institute/department website for details.
- Internship completion certificate will be issued by the mentor.
- Internship shall be conducted in offline mode only.