

## About MNIT

Malaviya National Institute of Technology (MNIT), Jaipur is one of the NITs established by Ministry of Human Resource Development, Government of India. The Institute, earlier known as MREC, was established in 1963 as a joint venture of the state and central Governments. Later in 2002, the college was given the status of National Institute of Technology and on August 15, 2007, proclaimed Institute of National Importance through Act of Parliament. MNIT campus spreads over 325 acres of lush green area in the prime location of Jaipur city. At present, in addition to research, consultancy and developmental activities, the Institute offers UG and PG (M. Tech./M.Sc. & Ph.D.) level courses to about 5000 students in almost all leading fields of engineering, technology, management and sciences.

## Department of ECE

The Electronics & Communication Engineering Department is one of the oldest departments at MNIT Jaipur. Currently, the department offers undergraduate courses in Electronics & Communication Engineering along with postgraduate courses in VLSI Design, Electronics & Communication, Wireless & Optical Communication and Embedded Systems. The research domains of the department span over various areas of Electronics & Communication Engineering. The department continually provides collaborative opportunities with National/International Universities, resulting in a global exposure in research

## Reaching MNIT

Jaipur is well connected by road, rail and air services. MNIT is situated on Jawaharlal Nehru (JLN) Marg and is about 9 kms from Main-railway station/ Central Bus Stand (Sindhi Camp) of Jaipur and 6km away from the Airport.

## Patron

Prof. Udaykumar R Yaragatti, Director

## Program Coordinators

Dr. Sarthak Singhal, ECE  
Dr. Rajendra Mitharwal, ECE  
Dr. Anirban Dutta, Physics

## Accommodation

Limited accommodation is available in the MNIT Hostels for outstation participants on nominal charges at first come first serve basis. The participants will not be paid any TA/DA. Charges of Institute Hostels are approximately Rs. 200/-\* per day including food and accommodation

## Important Dates

**Last date of receiving complete registration form**  
30<sup>th</sup> April 2019  
**Confirmation of selection by Email**  
10<sup>th</sup> May 2019  
**Internship Duration**  
20<sup>th</sup> May to 5<sup>th</sup> July 2019

## Address for Communication

Dr. Sarthak Singhal  
Assistant Professor,  
Department of Electronics Engineering,  
Malaviya National Institute of Technology,  
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# *Summer Training Program* *on* **Simulation and Computational Methods for Microwave Systems (SCMMS)** **Organised through TEQIP III**

**20 May 2019 - 05 July 2019**



**Organized by:**  
**Department of Electronics & Communication  
Engineering**  
**Malaviya National Institute of Technology  
Jaipur 302017, Rajasthan India**  
**[www.mnit.ac.in](http://www.mnit.ac.in)**

### About the Internship

This internship/ training program is designed according to the need of Undergraduate and Post Graduate Students of Electronics Engineering. Electromagnetism and microwave systems are very essential parts of advancement of current technology in applications like high data rate wireless communication, biological treatment, RF energy harvesting and also in day-to-day. For an enthusiastic involvement of students in latest emerging trends of high data rate communication, a hands-on practice on microwave component designing and electromagnetics computation is essential. This internship program is designed for instilling technical skills in UG/ PG students for facilitating a good career starts-up. The various aspects of microwave systems such as the theoretical and designing of electromagnetic algorithms, antennas, waveguides, and other applications in general will be dealt in this SIP. Simulation and Hardware development are the key features of this internship. This internship anticipate that it not only builds the fundamental engineering concepts but also offer a very sound technical circuit development/analysis skill.

### Course Content

The course majorly contains the following:

- Basics of Electromagnetics
- Introduction to microwave engineering and systems
- An exposure to computational electromagnetic methods like FDTD, FEM, MOM etc.
- Hands on lab sessions to solve electromagnetics problems using MATLAB
- Hands on lab sessions of ANSYS HFSS to design and simulate microwave components and systems
- Exposure to antenna and filter prototyping
- Introduction to microwave measurement setups

### Eligibility/Target Audience

This summer internship program targets UG, PG (Electronics Engg.) students, Research Scholars and Faculty of Govt. / Govt. aided / self- financed engineering colleges who are interested in computer simulation, designing & fabrication of microwave engineering components. All the undergraduate students who are appearing in the 4th and 6th semester examinations are eligible to apply.

## How to Apply

Applicants are advised to follow the given instructions while registering for the Summer Internship Program.

### Registration Fees

<b>UG Students</b>	<b>Rs. 10000/-</b>
<b>M.Tech./ Ph.D. Student</b>	<b>Rs. 11000/-</b>
<b>Faculty</b>	<b>Rs. 12000/-</b>

(Inclusive of 18% Goods and Service tax [GST])

### Mode of Payment

- **Demand Draft:**  
Demand draft (DD) payable at Jaipur, in name of :  
**The Registrar MNIT, Jaipur (TEQIP Phase-III)**
- **NEFT/IMPS:**  
**The Registrar MNIT, Jaipur (TEQIP Phase-III)**  
**Account No. 36875887782**  
**IFSC CODE: SBIN0015921 (SBI, MNIT)**

### Registration Form Details

After fee submission, the applicant must register themselves by submitting details on

<http://bit.ly/2Kgw5nw>

The applicant may also mail the filled registration form (given) with the appropriate requirements to the address of correspondence mentioned.

**All registration forms must be received by 5th May, 2019. Registration fee is non-refundable.**

The selection for the internship will be on '**first come first served**' basis for the limited **50 seats**. The confirmation of the selection to attend the course will be emailed by the mentioned date.

For further details about the course, contact sarthak.ece@ mnit.ac.in

## Registration Form

### Summer Internship Program On Simulation and Computational Methods for Microwave Systems (SCMMS)

20 May 2019 - 05 July 2019  
Department of Electronics Engineering,  
MNIT Jaipur-302 017, Rajasthan

Name: \_\_\_\_\_

Category (UG/PG/Faculty): \_\_\_\_\_

Semester & Department: \_\_\_\_\_

Specialization (PG/Faculty): \_\_\_\_\_

Institute: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Phone (M): \_\_\_\_\_ (O) \_\_\_\_\_

Email: \_\_\_\_\_

Accommodation required?

(Please indicate one)

Yes	No
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**Registration fee Details:**

Mode of payment (DD or NEFT/IMPS): \_\_\_\_\_

\_\_\_\_\_

Transaction No./ DD No. \_\_\_\_\_

Amount Paid: \_\_\_\_\_

The above information is accurate to the best of my knowledge at the time of completion of the form. If selected, I agree to abide by the rules and regulations of the program and MNIT Jaipur.

Date: \_\_\_\_\_

Candidate's Signature

The applicant is permitted to participate in the above program for the mentioned duration.

Date: \_\_\_\_\_

Signature of HoD with Seal