

REGISTRATION AND FEES:

Date	Category	Fee
Before 23 rd Nov 2023	BTech/MTech/PhD students	INR 4000.00
After 23 rd Nov 2023	BTech/MTech/PhD students	INR 4500.00
Before 23 rd Nov 2023	Faculty/Industry personnel	INR 7000.00
After 23 rd Nov 2023	Faculty/Industry personnel	INR 7500.00

IMPORTANT DATES:

Last date for receipt of application with DD/Chq: **25/11/2023**
Selection letters to be e-mailed: **26/11/2023**
Course Commences on: **01/12/2023**

CONTACTS:

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NOTE : Envelope must be superscribed as "Design & Simulation of Antennas and Microwave Devices"

Short Term Course on

Design & Simulation of Antennas and Microwave Devices

(01st - 06th December 2023)

Registration Form

- Name: _____
- Sex (M/F): _____
- Category: Student / Faculty / Industry
- College / Organization name: _____

- Highest Academic Qualification: _____
- Address for Correspondence:
Phone/Mobile:
Email:
- Accommodation Required: Yes/No
(Hostel/Guest House)
- Bank Draft Details:
Amount _____ Draft No: _____
Drawn on _____
Date:
Place: *Signature of Participant*
Forwarded by Head of the Department / Institute

Signature (with seal)



Short Term Course on

Design & Simulation of Antennas and Microwave Devices

(01st - 06th December 2023)



Prof. Santanu Kumar Behera

Coordinator

Prof. Prasun Chongder

Co-Coordinator



Dept. of Electronics & Comm. Engg.
National Institute of Technology
Rourkela – 769008

Technically sponsored by:



COURSE OBJECTIVE:

The main objective of this short term course is to provide an opportunity for research scholars, faculty members and industry personnel to get an exposure in the field of Microwave Antennas and RFID. The short term course is to give an insight into the field by discussion of necessary theoretical background as well as demonstration through simulation and measurement techniques. Participants will get an opportunity of 18 hours hands-on training of ANSYS EM package & anechoic chamber.

ABOUT DEPARTMENT OF ECE:

The main objective of the department is to impart high quality education and research. The major research areas of the department include Communication engineering, Microwave and Radar Engineering, Signal Processing, Image and video Processing, and VLSI and Embedded Systems. The EC department is handling several research projects sponsored by external funding agencies. The department has resourcefully established Microwave and Antenna Design Lab equipped with different types of state of art Licensed software (ANSYS HFSS, ANSYS DESIGNER, CST MICROWAVE STUDIO, MATLAB), and high end equipment.

COURSE HIGHLIGHTS:

- ❖ Basic Introduction to Microwave Devices and Antenna Systems.
- ❖ Introduction to ANSYS Designer and HFSS.

- ❖ Introduction to CST Microwave Studio
- ❖ Simulation of different microwave components using ANSYS Designer and HFSS.
- ❖ Simulation of different types of basic Antennas using ANSYS HFSS (Conventional and Planar)
- ❖ Combined Simulation of Antenna and its supporting systems using HFSS and Designer.
- ❖ Circuit layout Design using ANSYS Designer.
- ❖ Introduction to Optimization in ANSYS.
- ❖ Simulation of different Tag designs using CST Microwave Studio Suite.
- ❖ Fabrication of Tag and Reader Antennas using chemical etching technique.
- ❖ Physical insight to measurement of Antennas in Anechoic Chamber.

✓ All the Lab classes will be followed by background theory.

INTENDED ATTENDEES:

The course is designed primarily to train the research scholars, professionals, faculty members to take up microwave, antenna, RFID communication as a career option in academic and industry. Scholars and faculty members of Electronics and Communication Engg., Electrical Engg., Ceramic Engg., and MSc (Electronics) would find this course extremely useful.

ABOUT NIT ROURKELA:

National Institute of Technology (NIT), Rourkela was founded as Regional Engineering College, Rourkela in 1961. It is a prestigious Institute with

a reputation for excellence at both undergraduate and postgraduate levels, fostering the spirit of national integration among the students, a close interaction with industry and a strong emphasis on research, both basic and applied.

The city of Rourkela is a bustling industrial city, cosmopolitan by nature and is well connected to all parts of the country by road, rail and air. It is en-route Howrah-Mumbai main line of South-Eastern Railway. Nesting amidst greenery on all sides, NIT campus is approximately 7km from Rourkela railway station. The nearest airports are Rourkela, Jharsuguda, Ranchi, Kolkata and Bhubaneswar, which are well connected by trains.



MODE OF PAYMENT:

Payment should be done in DD/ Multicity Cheque in favor of "**Continuing Education, NIT Rourkela**" payable at **SBI, NIT Campus Branch**. (Code: 2109).

ACCOMMODATION:

Accommodation will be provided in **Hall of residences** or **Guest Houses** of NIT Rourkela as per availability **on additional payment basis**.

** Room rent for Hall of residences will be collected as per actual at registration desk.*