



ONLINE FACULTY DEVELOPMENT PROGRAMME (FDP)

ON

Emerging Innovations in Microwave Sensors and Antennas Design for Wireless Applications

(21st April - 2nd May 2025)

Organized under

Electronics & ICT Academy, NIT Warangal as HUB

by

Department of ETC, International Institute of Information Technology (IIIT) Bhubaneswar

Sponsored by Ministry of Electronics and Information Technology (MeitY), GoI



Preamble:

"Electronics & ICT Academy – Phase II" was set up at NIT Warangal with financial assistance from MeitY, GoI. This academy's role is to offer Faculty Development Programmes in standardized courses and emerging areas of Electronics, Information Communication Technologies, training & consultancy services for Industry, Curriculum development for Industry, CEP for working professionals, Advice and support for technical incubation and entrepreneurial activities.

About the FDP:

The FDP titled "**Emerging Innovations in Microwave Sensors and Antennas Design for Wireless Applications**" focuses on analysis, design and characterization of miniaturized components, sensors and antennas used in modern wireless applications.

Major Course Content:

This course aims to explore practical applications of microwave sensors and antennas across diverse sectors, emphasizing the transformative role of feature engineering in bridging academic insights with real-world industry, defense and space challenges. It also aims to build bridges between researchers and practitioners, fostering innovation and practical developments.

Microwave Antennas:

- Introduction to current trends in antenna design
- Miniaturized antenna design
- Metamaterial inspired antenna design
- Beamforming network design
- Phase array antenna design
- Antenna design for IoT applications
- THz antenna design
- Antenna characterizations

Microwave Sensors:

- Nondestructive material characterization and imaging
- Metamaterial inspired microwave sensor designs
- Spoof surface plasmon based sensor designs
- Microwave sensors for biomedical and other humanitarian applications

Faculty Conducting This Programme:

The programme will be conducted by faculty members from NIT Warangal and the academicians in the concerned field from IITs/NITs/IIITs are invited to deliver lectures. Speakers from industries are also expected to deliver as part of the course.

Registration Fee Particulars:

Participants need to pay the Registration Fee Online using the following details:

Faculty and Research Scholars	Rs. 750/-
Industry Participants	Rs. 2250/-

Online Transfer Details	
Account Name	: Electronics & ICT Academy NITW
Account No.	: 62423775910
IFSC	: SBIN0020149
Bank and Branch:	State Bank of India, NIT(REC) Warangal

How to apply:

Participants are required to fill the online registration form by clicking on the following link:

<https://docs.google.com/forms/d/e/1FAIpQLSckmjiGkwYS2ZdqRix8K2Ujj7aPaApkScf0vEsRCrn4nLWFNQ/viewform?usp=header>

Selection Criteria:

Selection will be done based on first-come-first-serve basis to a maximum number of 50 (fifty). Candidates will be issued satisfactory certificates on successful completion of the course.

Important Dates:

Last date (Application)	14.04.2025
Selection List by E- mail	17.04.2025
Duration	21.04.2025 to 02.05.2025

About NIT Warangal:

National Institute of Technology, Warangal, is the first among 17 RECs set up as a joint venture of the Government of India and the state government. Over the years, the college has established itself as a premier Institute imparting technical education of a very high standard, leading to B.Tech degrees in various branches of engineering, M.Tech., and Ph.D. programs in various specializations. All B. Tech and M. Tech programs of NIT Warangal are NBA accredited.

About IIIT Bhubaneswar:

The Government of Odisha established the International Institute of Information Technology, Bhubaneswar in 2006. It is designed to be a premier institute of Information Technology and related areas. The Institute has been converted into a unitary university by the Government of Odisha on 20th Jan 2014. IIIT Bhubaneswar offers undergraduate, postgraduate, and doctoral programs, emphasizing hands-on learning, interdisciplinary collaboration, and industry partnerships.

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