



**ONLINE**  
**FACULTY DEVELOPMENT PROGRAMME (FDP)**  
**"AI-Enabled Reconfigurable and Metasurface Antennas for**  
**5G/6G Wireless Systems"**  
**(27<sup>th</sup> July to 06<sup>th</sup> August 2026)**



**Organized by**  
**Electronics & ICT Academy, NIT Warangal**  
**In Association With**  
**Department of ECE, Vidya Jyothi Institute of Technology, Hyderabad**  
**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:

AI-Enabled Reconfigurable and Metasurface Antennas for 5G/6G Wireless Systems is a specialized Faculty Development Programme designed to provide participants with a comprehensive understanding of next-generation antenna technologies for advanced wireless communications. The FDP focuses on Artificial Intelligence (AI)-driven antenna design, reconfigurable antennas, intelligent reflecting surfaces (IRS), metasurface antennas, adaptive beamforming, massive MIMO, terahertz communications, and energy-efficient 5G/6G networks. Through expert lectures, simulation-based learning, hands-on demonstrations, and discussions on emerging research trends, participants will gain practical insights into modern antenna engineering and intelligent wireless systems. The programme is intended for faculty members, researchers, industry professionals, and postgraduate students seeking expertise in future wireless communication technologies.

#### Major Course Content:

- Fundamentals of 5G and 6G Wireless Systems
- Reconfigurable Antenna Technologies
- Metasurface and Intelligent Reflecting Surface (IRS) Design
- AI and Machine Learning for Antenna Optimization
- Adaptive Beamforming Techniques
- Massive MIMO and Smart Antenna Architectures
- Terahertz Communication Systems
- Electromagnetic Modeling and Simulation Tools
- Research Trends and Industry Applications in Future Networks

#### Experts/Speakers:

Resource persons will be from IITs, NITs and Industries.

#### Registration Fees:

Registration fees for the FDP, inclusive of GST is:

Faculty/Research Scholars	Rs. 500/-
Industry Participants	Rs. 2250/-

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

**Account Name: PRINCIPAL R AND D VJIT**

**Account No: 3063101002044**

**IFSC: CNRB0003063**

**Bank Name: Canara Bank**

**Branch Name: Himayathnagar village**

#### How to Apply:

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

<https://forms.gle/sDY1vdxLRBLg8JzL6>

#### Selection Criteria:

Selection will be made based on first-come-first-serve basis to a maximum number of 40 participants. Candidates will be issued satisfactory certificates on successful completion of the course.

#### Important Dates:

Last date of Application	22 <sup>nd</sup> July 2026
Selection Notification	24 <sup>th</sup> July 2026

#### About VJIT Hyderabad:

Vidya Jyothi Institute of Technology (VJIT), Hyderabad, established in 1998 by the Vidya Jyothi Educational Society, is one of Telangana's reputed engineering institutions. The institute is committed to excellence in technical education through innovative teaching methodologies, outcome-based learning, and industry-oriented curriculum. VJIT consistently achieves excellent academic performance, with around 95% academic results and approximately 82% placements for eligible students. The institution offers a vibrant learning environment supported by experienced faculty, modern infrastructure, research initiatives, and strong industry interaction. Over the years, VJIT has earned the confidence of students and parents alike, emerging as a preferred destination for quality engineering education and professional development.

#### About ECE Department, VJIT Hyderabad:

Established in 1999, the Department of Electronics and Communication Engineering (ECE) at VJIT has grown into a leading academic and research center. The department currently offers a B.Tech programme with an intake of 240 students and an M.Tech programme in Embedded Systems. It is recognized as a Research Centre by JNTUH and is NBA accredited until June 2028. The department is supported by a highly qualified faculty team, with over 30% holding Ph.D. degrees from premier institutions. Specialization areas include VLSI, Communications, Embedded Systems, and Signal Processing. By implementing Outcome-Based Education (OBE) practices, the department ensures quality education, innovation, and industry relevance.

#### 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. Programmes in various specializations. For more details about NITW, explore [www.nitw.ac.in](http://www.nitw.ac.in)

#### About ECE Department, NIT Warangal:

The Department of Electronics and Communication Engineering at National Institute of Technology Warangal is one of the largest and most distinguished ECE departments among NITs in India. The department has earned an international reputation for excellence in teaching, research, and innovation. It offers B.Tech, M.Tech, and Ph.D. programmes supported by advanced laboratories and experienced faculty. The department actively undertakes sponsored research projects funded by organizations such as ANRF, DST, DoT, ISRO, DRDO, SPARC, GIAN, and IIT innovation hubs. Its research strengths span communication systems, VLSI, embedded systems, signal processing, wireless technologies, and emerging electronics, making it a significant contributor to technological advancements and industry-oriented research.

#### Course Coordinators:

**Dr. P. Nageswara Rao**, Professor & HOD, ECE, VJIT, Hyderabad

**Dr. M. Vadivel**, Professor, ECE, VJIT, Hyderabad

**Prof. Vakula D**, Professor, ECE, NIT Warangal

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**Proposed Speakers:**

Dr. Abhinav Kumar	Professor, IIT Hyderabad
Prof. Narasimha Sarma N V S	Professor, NIT Warangal
Prof. Vakula D	Professor, NIT Warangal
Dr. Arun Kumar Gande	Associate Professor, NIT Warangal
Dr. Gopi Ram	Associate Professor, NIT Warangal
Dr. Amarjit Kumar	Assistant Professor, NIT Warangal
Dr.Ashwin Kothari	Professor, VNIT Nagpur
Dr.Krishnamoorthy K	Associate Professor, NIT Karnataka
Dr. Pinku Ranjan	Assistant Professor, IIITM, Gwalior, Madhya Pradesh
Dr. Kanakavalli Harshasri	Assistant Professor. IIIT, Sri City, Chittoor
Dr. Krishna Chaitanya A	Assistant Professor, NIT AP
Dr. Rajan Agrahari	Assistant Professor, NIT Patna
Mr.T.Sricharan	Chief Technical Engineer (Devops), Publicis Sapien, Hyderabad
Mr. Vijay Veera	Founder & Tech. Director, MicroSysLogic Technologies, Hyderabad
Dr. Yogesh Solunke	EMAG Technical Expert, RF Engineer, Pune
Mr. Ramaraju Mahesh	Project Manager, Ananth Technologies, Hyderabad
Dr.D.Rama Krishna	Professor, Osmania University, Hyderabad
Dr. Sulakshana Chilukuri	Associate Professor, Vardhaman College of Engineering, Hyderabad
Dr M Kiran	Professor, GRIET, Hyderabad