FACULTY DEVELOPMENT PROGRAMME (FDP)

VIKAS COLLEGE OF ENGINEERING & TECHNOLOGY (AUTONOMOUS) Nunna, Vijayawada Rural

"Design of smart devices based on advanced semiconductor materials for the next generation wireless communications"

(29th June to 9th July 2026) Organized by

Electronics & ICT Academy,NIT Warangal

In Association With

Vikas College of Engineering and Technology

Sponsored by

Ministry of Electronics and Information Technology (MeitY), GoI

Preamble:

"Electronics & ICTAcademy – Phase III"was setup 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:

This Faculty Development Program (FDP) is designed to enlighten the conceptual thinking levels of faculty members, researchers, and industry professionals to attain extremely advanced knowledge to develop emerging research trends in semiconductor materials and smart device design technologies for the next-generation wireless communication systems for the alignment with the vision of technological self-reliance and digitally powered Viksit Bharat. This FDP mainly focuses on the design, development, and application of smart electronic device design that could be enabled by the advanced semiconductor material. This program also provides the latest comprehensive technological exposure to flexible electronic materials for the shaping of future high-speed, energy-efficient intelligent wireless sensor communication systems. With this advanced FDP, the participants will gain insights into the design and fabrication of smart devices such as RF components, antennas, sensors, and the smart, intelligent integrated circuits for 5G/6G and beyond communication networks. This program will feature expert lectures, hands-on demonstrations, technical discussions, and interactive industry experts. This FDP will serve as a valuable platform for the promotion of innovative solutions for the development sessions by eminent academicians, researchers, and of smart, sustainable, and high-performance communication technologies for the future.

Major Course Content:

- Advanced Semiconductor Materials for High-Frequency and High-Speed Wireless Applications.
- Flexible, Wearable, and Printed Electronics for Smart Communication Systems
- 5G/6G Wireless Communication Architectures and Emerging Technologies
- Advanced Signal Processing Techniques for Smart intelligent Communication Devices
- Cyber security and Secure Communication in Smart Wireless Systems
- Design of Low-Power VLSI Circuits for Wireless Design Applications

Experts/Speakers:

Resource persons will be from IITs, NITs, Industries and Foreign Universities.

Registration Fees:

Registration fees for the FDP ,inclusive of GST is:

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

Participant's online registration details:

Account Name: Principal, Vikas College of Engineering and Technology, Account No: 00000030558040127
IFSC: SBIN0003287
Bank and Branch: State Bank of India, NUNNA (03287)

How to Apply:

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

https://forms.gle/sZuTQuQxztr1WmTG9

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	**27th June2026**
Selection Notification	**28th, June 2026**

About VIKAS, Nunna:

Vikas Collage of Engineering & Technology (Autonomous) was established in the year 2008 in green lush fields of 50 acres. The Institute is approved by AICTE, New Delhi, UGC and permanently affiliated to JNTUK Kakinada. Established with a vision to provide quality Technical Education for Rural Students. VCET offers Diploma, undergraduate and postgraduate programs in various disciplines, including, Electrical, Electronics and communication Engineering, Agricultural Engineering, Business Administration, Computer Science, AIML, DS, IOT, Cyber security, Mechanical, and Civil.. With a strong emphasis on innovation, industry collaboration, and skill development, VCET provides state-of-the-art infrastructure, well-equipped laboratories, and experienced faculty.

About ECE Department, VIKAS, Nunna:

As a top **ECE Engineering College in Vijayawada**, we recognize that Electronics and Communications Engineering (ECE) stands as a pivotal branch in the realm of engineering, increasingly significant in our technologically driven world. This field merges the foundational principles of engineering with the dynamic innovations in electronics and communication. ECE is particularly vital given the rapid advancements in Internet of Things (IoT), 5G Technologies, Microelectronics, Nano Electronics. This program offers a rich tapestry of learning experiences, covering key areas like analog and digital circuit design, Embedded Systems, Communication Systems, and Signal Processing. It also integrates essential aspects of Computer Science and Information Technology.

The course structure is designed to provide students with comprehensive knowledge in both hardware and software. This approach ensures that graduates are versatile, equipped with skills ranging from designing electronic circuits and devices to mastering communication systems. The intersection of hardware and software knowledge expands their horizons, offering them a robust platform for innovation and creativity in various sectors.

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. Programmers in various specializations. For more details about NITW, www.nitw.ac.in

Course Coordinators:

Prof. Gopi ram, Associate Professor, ECE, NITW

Dr. Kiran Kumar Gurrala, Assistant professor, ECE, NITAP
Dr. Vanitha Rani Rentapalli, Associate Professor, ECE, VCTN

Dr.J. Pavanu Sai, Associate Professor, ME, VCTN

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