

Registration Fee

UG/PG Students **Rs. 600/-**

Faculties & Research Scholars **Rs. 700/-**

The participants can send their duly filled in registration form to the convener

Important Dates

Last date for registration

23.10.2025

Intimation of Selected Candidates

25.10.2025

Resource Persons

Experts from Industries, IITs, NITs, Foreign Universities and Reputed Institutions

Scan to Register



Registration Form

<https://forms.gle/UpnLzzUzSVwYwb1V8>

Organizing Committee

Chief Patron

Dr. K. P. Ramasamy

Chairman

Ms. Gayathri Anandakrishnan

Secretary

Patrons

Dr. A. M. Natarajan

Chief Executive

Dr. R. Devi Priya

Principal

Convenor

Dr. M. Kalamani

Professor & Head / ECE

Coordinator

Dr. V. Seethalakshmi

Professor / ECE

Co-Coordinator

Dr. Arijit De

Associate Professor/ ECE

Contact

Dr. V. Seethalakshmi

Professor / ECE

KPR Institute of Engineering and Technology

Mobile No: +91 93456 44443

Email Id: seethav@kpriet.ac.in

Dr. Arijit De

Associate Professor / ECE

KPR Institute of Engineering and Technology

Mobile No: +918583996754

Email Id: arijitde@kpriet.ac.in



**Department of
Electronics and Communication Engineering**

organizes

**Anusandhan National Research Foundation
Sponsored**

**One Week National Level Workshop
On**

**AI-Driven Antenna Design and Optimization by
Integrating Machine Learning, Deep Learning,
and Electromagnetic Intelligence for Future
Wireless Systems**

27.10.2025 to 31.10.2025



About the Institution

KPR Institute of Engineering and Technology, established in 2009, is a private autonomous institution affiliated to Anna University. A 150-acre campus located in Coimbatore, Tamil Nadu, it offers 13 Undergraduate, 6 Postgraduate, and 13 research programs. The institution advances over 5000 students from 13 countries, 300+ faculty members, 62% of whom hold PhDs. KPRIET excels in engineering and ranks between 101-150 in NIRF's engineering category. For its excellence in teaching, employability, social responsibility, research, internationalisation, and governance, KPRIET earned the diamond rating in the QS I-GAUGE. KPRIET prepares students for the future by mentoring them in innovative solutions and adapting to the rapidly changing world.

About the Department

The Department of Electronics and Communication Engineering was established in 2009 with the primary goal of providing young individuals with the necessary technical knowledge and professional skills to tackle the challenges in the rapidly evolving field of Electronics and Communication Engineering while promoting research in this area. The department offers a Bachelor of Engineering (B.E) in Electronics and Communication Engineering, as well as a Master of Engineering (M.E) in VLSI design. The B.E-ECE program is accredited by the National Board of Accreditation (NBA) under Tier-1, and the department is recognized as a research centre by Anna University with 74 research scholars pursuing Ph.D.

The department is committed to not only updating the curriculum but also enhancing its laboratory facilities to keep pace with the latest advancements in state-of-the-art technologies. Some notable additions include the Centre for Smart Antenna Systems and Measurements, an industry-driven IoT Centre, and a specialized laboratory for PCB Design and Manufacturing.

About the Workshop

This workshop focuses on the integration of Artificial Intelligence (AI) techniques, including Machine Learning, Deep Learning, and Electromagnetic Intelligence, in antenna design and optimization. Participants will explore advanced methodologies for improving antenna performance, miniaturization, and adaptability for next-generation wireless systems. Hands-on sessions will demonstrate AI-driven simulation, modeling, and performance prediction tools. The program will also highlight case studies in 5G, 6G, IoT, and satellite communication applications. The workshop aims to equip researchers and engineers with cutting-edge skills to innovate in the evolving field of smart antenna systems.

Course Content

- AI/ML in Electromagnetics, RF and Microwave Engineering
- AI Applications in Antenna Design and EM Simulation Tools
- Deep Learning Models for Antenna Prediction
- Machine Learning in EM, Transfer Learning
- AI/ML Model Training and Deployment in RF Design
- Reinforcement Learning in Antenna Systems
- Surrogate Models, Antenna Optimization using AI
- AI for Metamaterial and Wearable Antennas
- Wearable Antennas, Health Monitoring Systems
- Metamaterials and its applications

Anusandhan National Research Foundation Sponsored One Week National Level Workshop On AI-Driven Antenna Design and Optimization by Integrating Machine Learning, Deep Learning, and Electromagnetic Intelligence for Future Wireless Systems

27.10.2025 to 31.10.2025

Registration Form

Name (in capital letters)	:
Department	:
Organization	:
Gender / Age	:
Address	:
Designation	:
E-mail address	:
Mobile No	:
Experience	:
Payment Details	:
DD. No.	:
Amount	:
Bank	:
Date	:

Signature of the Applicant