

About SENSE:

SENSE at VIT was established for imparting state-of-the-art knowledge in Electronics and Communication Engineering and allied areas. The school has set up laboratories with excellent infrastructure in the areas of Electronics, Communication, VLSI, Embedded, Sensors and Nanotechnology. Faculties are actively involved in R&D activities and are working on research projects funded by government organizations like DRDO, ISRO (RESPOND), and DST.

About the event:

The training program aims to deliver a solid foundation in antenna principles, highlight recent advancements, and present research outcomes related to 5G and Biomedical device implementations. This online FDP will feature sessions dedicated to technologies, techniques, and applications in Artificial Intelligence (AI), Machine Learning (ML), RF, and antenna design, designed to promote the exchange of knowledge and ideas among experts. It will serve as an excellent platform for those embarking on research in AI/ML-driven RF and antenna systems..

Course Content:

- Implantable Antenna for Biomedical Applications
- Wind speed Forecasting using Machine Learning
- Millimeter wave Performance of Avalanche Transit Time Sources using Machine Learning
- ML in Design Pixelated Metamaterial Absorber
- Handon: Design and Analysis of Filter
- Design and Analysis of Filtering Antenna
- ML Approach in RF antenna designing
- Handson: for FSS Designing
- Need of AI and ML in Modern Antenna Design
- AI ML applications in Signal Processing

Resource Persons: Experts from Reputed Institutions and Industry.

Eligibility: The training program is open to Industry personnel, Engineering Faculties, Research Scholars and UG/PG students.

Registration Fee :

- Rs.500 + 18% GST (For Industry persons),
- Rs.300 + 18% GST (For Faculty),
- Rs.200 + 18% GST (For Students and Research scholars).

Payment Link: <https://events.vit.ac.in/>

Advisory Committee:

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Five Days Online Faculty Development Program (FDP)

on

" Machine Learning and AI in Microwave and Antenna Design: Pathways to 5G/6G Communication"

16th – 20th March 2026

Organized by

**Department of Communication
Engineering
School of Electronics Engineering
(SENSE)**

**Vellore Institute of Technology
Vellore-632014**