

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 FDP on "Next-Generation Communication Systems and AI-Driven Signal Processing: Trends and Applications" aims to provide insights into emerging communication technologies and intelligent signal processing techniques. It covers key advancements from classical to quantum communication, including RIS, fluid antennas, and 6G systems. The FDP on "Next-Generation Communication Systems and AI-Driven Signal Processing: Trends and Applications" aims to provide insights into emerging communication technologies and intelligent signal processing techniques. It covers key advancements from classical to quantum communication, including RIS, fluid antennas, and 6G systems.

Course Content:

- Classical & Quantum Communication
- RIS-Assisted Communication
- Fluid Antenna Systems
- 6G Waveform Design
- ML for Quantum Communication
- Biomedical Signal Processing
- Deep Learning in Medical Imaging
- ML for System Design & Optimization
- AI/ML in EEG Analysis
- DSP & Deep Learning for Genomics

Resource Persons: Experts from Reputed Institutions and Industry.

Eligibility: The training program is open to Industry personnel, Engineering Faculties, Research Scholars.

Registration Fee :

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

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

Advisory Committee:

Dr. Jasmin Pemeena Priyadarisini M.

Professor and Dean,
School of Electronics Engineering (SENSE),
Vellore Institute of Technology, Vellore,
India.

Dr. Kannadassan D

Professor & Head,
Department of Communication Engg.
School of Electronics Engineering (SENSE),
Vellore Institute of Technology, Vellore, India.

Coordinators

Dr. Malaya Kumar Hota

Dr. Hemanta Kumar Sahu

Department of Communication
Engineering,
School of Electronics Engineering (SENSE),
Vellore Institute of Technology,
Vellore – 632 014.
Contact Numbers: +91-9337015548
+91-9853568787

E-Mail: malayakumar.h@vit.ac.in
hemanta.sahu@vit.ac.in



Five Days Online Faculty Development Program (FDP)

on

" Next-Generation Communication

Systems and AI-Driven Signal

Processing: Trends and Applications"

8th – 12th June 2026

Organized by

Department of Communication

Engineering

School of Electronics Engineering

(SENSE)

Vellore Institute of Technology

Vellore-632014