



About VIT

VIT was established with the aim of providing quality higher education on par with international standards. It persistently seeks and adopts innovative methods to improve the quality of higher education on a consistent basis. The campus has a cosmopolitan atmosphere with students from all corners of the globe. Experienced and learned teachers are strongly encouraged to nurture the students. The global standards set at VIT in the field of teaching and research spur us on in our relentless pursuit of excellence. Our Memoranda of Understanding with various international universities are our major strength.

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:

This workshop is designed to provide participants with an overview of the latest developments in RF, millimetre-wave (mm-Wave), and terahertz (THz) antenna technologies and their emerging applications. The workshop will bring together academicians, researchers, industry professionals, and students to explore recent advancements in high-frequency antenna design, electromagnetic simulation, fabrication, measurement, and system-level applications. The sessions will focus on the role of advanced antennas in modern defence systems, satellite and space communication, radar and sensing, and next-generation 5G/6G wireless communication systems. Particular emphasis will be given to practical design challenges and emerging research opportunities in mm-Wave and THz frequency bands.

Course Content:

Session I - 10:00 AM – 11:30 AM

Application-Specific Antenna Design: Issues, Challenges and Design Considerations

Session 2- 11:30 AM – 01:00 PM

Hands-on Design of MIMO and UWB Antennas: Fabrication and Experimental Testing

Lunch Break: 1:00 PM – 2:00 PM

Session 4– 3:30 PM – 5:00 PM

RF/mm-Wave and THz Antennas: Advanced Technologies, Case Studies and Future Trends

Advisory Committee:

Dr. Jasmine Pemeena Priyadarisini

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

Dr. Kannadassan D

Professor and Head,
Department of Communication Engineering,
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Resource Persons:

Dr. S. Sangeetha Ph.D

Assistant Professor, Dept. of ECE,
College of Engineering, Guindy, Anna University.

Eligibility: The Seminar is open to Research
Scholars, Faculties and UG/PG students.

Registration Fee:

Rs. 250 +(GST)

Registration: <https://events.vit.ac.in/>



VIT[®]

Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

One day Seminar

on

“Cutting-Edge RF/mm-Wave and THz Antenna Technologies for modern Defence, Space and 5G/ 6G Wireless Applications ”

10th October, 2026

(Time: 10:00 AM – 5:00 PM)

Venue: TT-145

Organized by

**School of Electronics Engineering
(SENSE)**

**Vellore Institute of Technology,
Vellore**

SDG Goals meets: SDG 9, SDG 11

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