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. Faculty are actively involved in R&D activities and are working on research projects funded by government organisations like DRDO, ISRO (RESPOND), BRNS and agencies like DST.

About the event:

Emerging Technologies for 5G/6G Wireless Communication is a three-day online Faculty Development Programme organized by the Department of Communication Engineering (DCE), School of Electronics Engineering, Vellore Institute of Technology showcasing the state-of-the-art and beyond of wireless communication, through talks by faculty members of IITs, NIT, MIT and experts from industries. This FDP is aimed at providing the participants with a glimpse of the contemporary as well as disruptive developments in the fields of wireless communication, leading the path to motivate and enlighten the next-generation of communication and signal processing engineers. The target audiences are faculty members, and research scholars working in the areas of Wireless Communication, Machine Learning, Signal Processing, and so on.

Talks Scheduled:

- Candidate technologies for 5G and Beyond
- Massive MIMO
- Cell-free massive MIMO
- Future trends in millimetre wave communication
- Wi-Fi 7 (802.11be) - the upcoming Wi-Fi standard
- Integrated Communication and Sensing
- Reconfigurable Intelligent Surfaces
- Non-Orthogonal Multiple Access
- Reinforcement learning and its application in communication networks

Advisory Committee:

Dr. Sivanantham S

Professor and Dean,

School of Electronics Engineering,

Vellore Institute of Technology,

Vellore, India.

Dr. Prakasam. P

Professor & Head,

Department of Communication Engineering,

School of Electronics Engineering,

Vellore Institute of Technology,

Vellore, India.

Coordinators

Dr. Vinoth Babu Kumaravelu, Professor Grade I
Dr. Hariharan S, Associate Professor Grade II
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Mode: Online (Through MS Teams)

Time: 11.00 AM to 05:30 PM

Registration Fee: Rs. 300 +GST

Registration and Payment Link:

https://events.vit.ac.in/

Last Date for Registration is 21-01-2023

Faculty Development Programme on

Emerging Technologies for 5G/6G Wireless Communication

23rd to 25th January 2023

Organized by

Department of Communication Engineering

School of Electronics Engineering

Vellore Institute of Technology, Vellore

Tentative Schedule

Date	FN Time: [11 AM to 1 PM]	AN Time: [3:30 PM to 5: 30 PM]
23-01-2023	**Mr. Ashok Govindarajan** Head of Engineering - Wireless Networks, Zilogic Systems, Chennai, India. **An introduction to Wi-Fi 7 (802.11be) - the upcoming Wi-Fi standard**	**Dr. Vinosh Babu James,** Associate Director, Technical Standards Qualcomm & Convener of 5GIF, Qualcomm, Bengaluru, India. **Integrated Communication and Sensing**
24-01-2023	**Dr. Surendar M** Assistant Professor, Department of Electronics and Communication Engineering, National Institute of Technology, Puducherry, India. **Candidate technologies for 5G & Beyond Communication**	**Dr. Subrahmanya Swamy Peruru** Assistant Professor, Department of Electrical Engineering, Indian Institute of Technology Kanpur, India. **Reinforcement learning and its application in communication networks**
25-01-2023	**Dr. Abhay Kumar Sah** Assistant Professor, Department of Electronics and Communication Engineering, Indian Institute of Technology Roorke, India. **Cell-free massive MIMO systems**	**Dr. C. Rimmya** Assistant Professor (Sr. Gr.), Department of Electronics Engineering, Madras. Institute of Technology, Anna University, Chennai, India. **Future trends in millimetre wave communication**