

ABOUT VIT AND SCHOOL OF ELECTRONICS ENGINEERING (SENSE)

Vellore Institute of Technology (VIT), India,

- Engineering and Technology subject areas of VIT are the 346th best in the World and the 9th best in India as per QS World University Rankings by Subject 2022
- NAAC Accreditation with A++ grade in the 4th cycle
- Ranked among the top 900 Universities of the world, one among the Top 10 and the only private institution of India (Shanghai ARWU Ranking 2021)
- The 12th best institution of India in Research and Engineering categories (NIRF Ranking, Govt. of India 2021)
- Ranked within the top 200 in Asia (QS - Asia University Rankings 2022)
- The School of Electronic Engineering (SENSE) at VIT Chennai was established in 2010 when this campus was set up in Chennai. The School offers two B.Tech. programmes, one in Electronics and Communication Engineering and the other in Electronics and Computer Engineering. It also offers two M.Tech programmes, one in Embedded Systems and the other in VLSI Design. In addition, Ph.D. research programme is offered in the areas of Electronics, Communication and Computer Engineering and their allied fields.

OBJECTIVES OF THE PROGRAMME

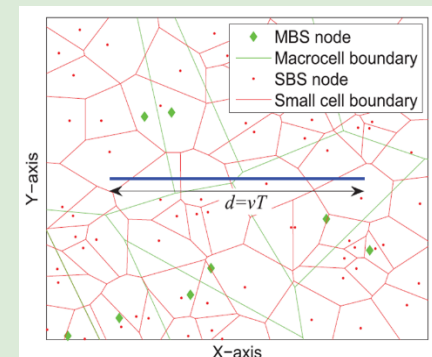
- Designing of microwave antenna using substrate integrated waveguide
- PHY Layer Mobility aspects in the Performance of Wireless Communications
- Applications of signal processing in wireless communication
- Applications of machine learning in microwave device design
- Design of wireless sensor networks
- Cell-Based spectrum Handoff in cognitive radio networks



A THREE-DAYS ONLINE FACULTY DEVELOPMENT PROGRAMME ON

'RESEARCH ASPECTS IN THE FIELD OF MICROWAVE ANTENNA DESIGN AND WIRELESS COMMUNICATION NETWORKS'

From 8th to 10th February 2023



Organised by

School of Electronics Engineering (SENSE),
Vellore Institute of Technology, Chennai

Organisers: **Dr. Sourabh Paul**

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Dr. Ravi Tiwari

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Day
1

08.02.2023
Wednesday

Session-I (11:00 AM to 01:00 PM) (IST)

"Substrate Integrated Waveguide (SIW) Technology and Its Implementation in Antenna Design"

Resource Person: **Dr. Arvind Kumar,**
(2% top scientist)
Assistant Professor,
Dept. of ECE,
Visvesvaraya National
Institute of Technology,
Nagpur, INDIA



Session-II (2:30 PM to 04:30 PM) (IST)

"PHY Layer Mobility aspects in the Performance of Wireless Communications"

Resource Person: **Dr. Prabhat Kumar Sharma,**
(IEEE Senior Member)
Assistant Professor,
Dept. of ECE,
Visvesvaraya National
Institute of Technology,
Nagpur, INDIA.



Day
2

09.02.2023
Thursday

Session-I (11:00 AM to 01:00 PM) (IST)

"Signal Processing in Wireless Communication"

Resource Person: **Dr. Soni Changlani**
Dean of Engineering at LNCT
University, Professor in the
Department of ECE, LNCT Group,
Bhopal, INDIA



Session-II (2:30 PM to 04:30 PM) (IST)

"Pool-Based and Cell-Based spectrum Handoff in CRN"

Resource Person: **Dr. Shanidul Hoque,**
Assistant Professor Sr Grade-2,
SENSE, Vellore Institute of
Technology (VIT), Vellore,
INDIA.



Day
3

10.02.2023
Friday

Session-I (11:00 AM to 01:00 PM) (IST)

“Machine Learning Application for Microwave Device Design”

Resource Person: **Dr. Sambhudutta Nanda,**
Assistant Professor Sr Grade-2,
SENSE, Vellore Institute of
Technology (VIT), Andhra
Pradesh, INDIA



Session-II (2:30 PM to 04:30 PM) (IST)

“Design Consideration for Wireless Sensor Network (WSN)”

Resource Person: **Dr. Chandramauleshwar Roy,**
Associate Professor and
Associate Dean Industry
Institute Interaction cell
(IIIC), Dept. of ECE,
Madanapalle Institute of
Technology and Science
(MITS), Madanapalle,
INDIA.



TARGET GROUP

- Faculty Members
- Industry persons, Engineers from R&D organization
- Early career researchers

REGISTRATION

**NO REGISTRATION FEE

**LAST DATE OF REGISTRATION: 07/02/23

**REGISTER HERE

https://docs.google.com/forms/d/e/1FAIpQLSfmENH206JXb2hHaSbrW51WCOv2La9SE3OGWzT0_3Uv2bUP4g/viewform?usp=sf_link

** E-Certificate will be issued to all the participants