

## 1) Appreciation Award in AICTE –ISTE Sponsored FDP “Industrial Application of MATLAB”

Dr SoniChanglani professor & Head department of ECE LNCT got Appreciation Award in AICTE –ISTE Sponsored FDP “Industrial Application of MATLAB” between 11th to 17<sup>th</sup> Feb2021.



## 1) Contributing as an author

Mr SourabhPandey, Asst Professor, Dept of Electronics and Communication Engineering, LNCT Group of Colleges for contributing as an author in the book titled 'Covid-19 and it's Impact'.



## 2) SWAYAM online certification

Dr. Vijay Yadav got swayam online certification for accreditation for undergraduate engineering programs on session julydec 2020



### 3) Certificate by E & ICT IIT Kanpur

Dr LN Gahalod of Department of ECE successfully completed one week FDP on Python conducted by E & ICT IIT Kanpur.



#### 4) Activities & Certification by Faculties

Dr TarunVarma, Dr ShravanSable,DrZahidAlam,Dr Vijay Yadav attended activities and got certificates in different fields.



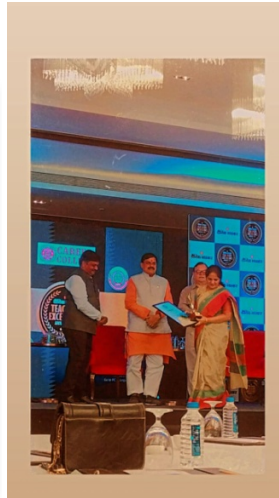


## 5) Congratulations for PhD. Awarded

Faculty	Thesis Title	Image
Dr LN Gahalod	Performance Evaluation of Digital Image Watermarking using Level-3 Discrete Wavelet Transform for Security of Image	
Dr Tarun Varma	Performance Improvement for Satellite Communication Under Security Risk	

- Teacher excellence award

**Dr. Soni Changlani** Professor and HOD EC recieved teacher excellence award by Dainik Bhasker in gracious presence of Honorable Dr. Mohan Yadav ji(Higher Education Minister MP)



- Contribution as Session Chair in NCVCS 2021**

**Dr. Soni Changlani** invited as **Session Chair** in the ‘**IETE National Conference on “VLSI, Communication and Signal Processing”** (NCVCS 2021)' organized by the Electronics and Communication Engineering Department of Maulana Azad National Institute of Technology, Bhopal from 27st to 28th Nov, 2021.



- **Delivered an expert lecture**

**Dr. Soni Changlani** Professor and HOD EC Delivered an expert lecture on " Mathematical Modelling of Signals and Systems" in SIRT Bhopal under Sage talk series



- **Attended ATAL IDEA Lab FDP on Electronics System Design**

**Dr. Shravan Kumar Sable**, Associate Professor Department of Electronics & Communication Engineering Lakshmi Narain College of Technology Bhopal have attended



AICTE Training And Learning (ATAL) Academy IDEA Lab faculty development program on Electronics System Design from 16<sup>th</sup> -22<sup>nd</sup> December 2021 at D Y Patil International University, Akurdi, Pune.



- **Successfully completed short term training programme conducted by NITTTR**  
The following faculty members of EC department have successfully completed one week short term training programme conducted by NITTTR under the ministry of education with the programme title “**Outcome Based Assessment**” from 31 january 2022 to 4 february 2022 ,  
**DrSoniChanglani,Dr LN Gahalod,Dr Monika Kapoor,DrZahidAlam ,DrTarunVarma.ProfShradhhaShrivastava,Dr Vijay Yadav,DrShravanSable,DrRakeshAgarwal,DrUmashankarKurmi,ProfSourabhPandey,ProfPrashantChaturvedi**



- **FDP attended**

FDP attended on AI & IOT APPLICATION IN ENERGY SECTORS by Dr Vijay Yadav from 7/9/2021 to 11/9/2021

1. One more feather in our cap! Congratulations! LNCT, Bhopal. Dr. Monika Kapoor and Prof. Shraddha Shrivastava of Electronics and Communication Department has won the 1st prize with certificate and cash reward of Rs 50,000 in Monograph Competition conducted by Quality Council of India (QCI), an autonomous body under Ministry of Commerce & Industry. Result may be viewed on the following link:

"<https://qcin.org/public/Result%20of%20Monograph%20Competetion.pdf>." The title of Monograph was "Ultrawideband Technology Based Indoor Positioning System" under the theme "Futuristic Tools for enhanced Quality Management & Quality Assessments"



2. Dr. L.N Gahalod and Dr. Soheb Munir faculty of Electronics **and Communication** has nodal center coordinator for virtual lab under NIT Karnataka suratkal





**Dr Soni Changlani invited as speaker in FDP in VIT Chennai**

Dr Soni Changlani invited as speaker in FDP in VIT Chennai the title of expert talk was “Research Aspects in the Field of Microwave Antenna Design and Wireless Communication Networks”

**NLMS Algorithm Steps [1]**

- Parameters:  $p$  = filter order
- $\mu$  = step size
- Initialization:
 
$$h'(0) = 0$$
- Computation: For  $n = 0, 1, 2, \dots$ 

$$x(n) = [x(n), x(n-1), \dots, x(n-p+1)]^T$$

$$e(n) = d(n) - h^{H'}(n)x(n)$$

$$h'(n+1) = h'(n) + \frac{\mu e(n)x(n)}{x^{H'}(n)x(n)}$$

Dr. Soni Changlani 2/9/2023

Slide 17 of 44 "Equity"

Participants: DM, PS, PK, AK, NB, BS, RD, VD, RP, +4

## 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 Accredited 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

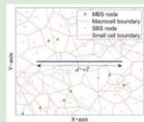
- Designing of microwave antenna using substrate integrated waveguide
- PHY Layer Mobility aspects in the Performance of Wireless Communications
- Applications of signal processing in wireless communication
- Applications of machine learning in microwave device design
- Design of wireless sensor networks
- 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 8<sup>th</sup> to 10<sup>th</sup> February 2023



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

Organisers: **Dr. Sourabh Paul**  
Assistant Professor Sr. Grade-2, SENSE, VIT Chennai,  
Mobile: 9337218075, E-mail: sourabh.paul@vit.ac.in

**Dr. Ravi Tiwari**  
Assistant Professor Sr. Grade-2, SENSE, VIT Chennai,  
Mobile: 7978033098, E-mail: ravi.tiwari@vit.ac.in

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,  
Vivekvaraya 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,  
Vivekvaraya 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. Sambhuddutta 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)"

### 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:

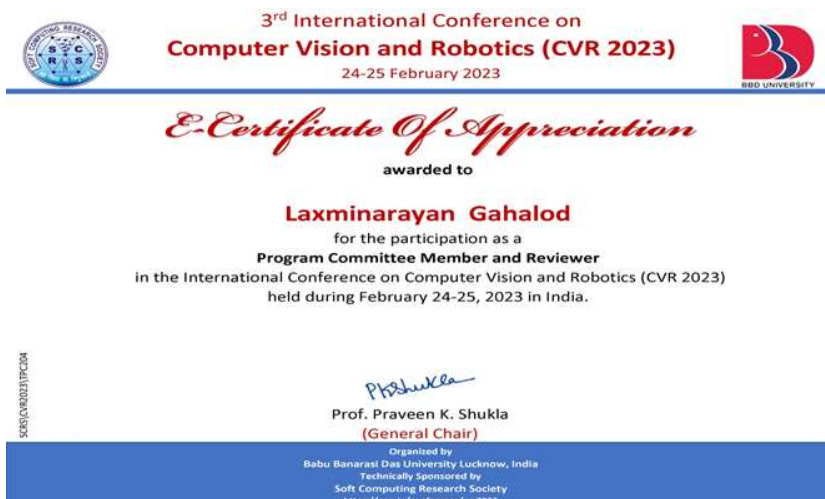
[https://docs.google.com/forms/d/e/1FAIpQLSfndENH206/ZXh2h1aShwW51WC0z2La0SE3OGWwTD\\_3Uz2bUP4g/viewform?usp=sf\\_link](https://docs.google.com/forms/d/e/1FAIpQLSfndENH206/ZXh2h1aShwW51WC0z2La0SE3OGWwTD_3Uz2bUP4g/viewform?usp=sf_link)

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

**Dr Soni Changlani ,Session Chaird in IEEE international conference on innovations in high speed communication and Signal Processing held at MANIT Bhopal 4-5 March 2023**



**Dr L.N. Gahalod got selected as a Reviewer in third international conference on 'Computer vision and Robotics 2023**



**Certificate of Appeciation to Dr Bhanu P Singh**





## Faculty Appreciation Award 2023



