



## Mr. GANESH N GAIKWAD

Assistant Professor, Department of E & TC

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### Overview:

**Qualifications:** Ph.D.(E&TC-Pesuing), ME (E &TC ), BE (E&TC)  
**Experience:** Teaching -16 years  
**Date of Joining STES:** 21/07/2008  
**Skills and Proficiencies:** MATLAB, C, SQL, Scilab, Optiwave System Antenna Tools – Concerto, IE3D, HFSS, CST

### SIGNIFICANT ACHIEVEMENTS:

- Achieved good results from students specially O (Outstanding) and A grade consistently for subjects like Signals & Systems, Electrical Circuits, Electromagnetics which are considered to be tough to score.
- Able to achieve good liaison with reputed organization like Defense Institute of Advanced Technology, Central Water & Power Research Station, Bedrock Microwaves, Horizon Electronics etc.
- Contributed in syllabus framing of the subject Fiber Optic Communication at BE E &TC syllabus revision 2019 course
- Worked as External paper setter for the subject Signals and Systems at VIIT Pune
- As a cultural coordinator of SCOE brought lot of glory to the college by consistent efforts and coordination with SCOE art circle students in events like Firodiya Karandak, Purushottam Karandak, Sinhgad NEON etc.
- Contributes as Coordinator in NAAC criterion 5 which secured maximum marks, NBA criterion 7 at Department level
- Represented as SCOE staff cricket captain in staff league in Sinhgad Spring Fest competition

### AREA OF EXPERTISE /RESEARCH INTERESTS:

- Signal Processing, Microwave Communication

### NUMBER OF STUDENTS GUIDED:

PG – 06 , UG – 30+ Groups

## RESEARCH PUBLICATIONS:

### Publication Summary:

Publication Summary

International Journals - 6

Conference - 16

H index - 2

<https://scholar.google.com/citations?user=bmCY-vAAAAAJ&hl=en>

## RESEARCH WORK:

Worked as Junior Research Fellow in DIAT (Defense Institute of Advanced Technology) in Microwave Antenna Simulation & Fabrication.

## NOTABLE GUIDED PROJECTS:

- Design and fabrication of Tapered Optical Fiber Devices
- Performance Evaluation of Adverse Atmospheric Effects on Free Space Optical Communication
- Antenna Positioning Unit for Défense Vehicles
- Design and Implementation of Circularly Polarized Patch Antenna for 5 G Applications
- Design and Implementation of Microstrip Patch Antenna Using Metamaterial Approach
- Driver's Anti Sleep Device
- Electric Vehicle Charging Station Design Using LABVIEW

## RESOURCE PERSON TO INDUSTRY/ACADEMIA:

- Reviewer for the IEEE International Conference on Emerging Smart Computing and Informatics at AISSMS, Pune, 5-7 March 2024
- Worked as Resource Person in SPPU Faculty Orientation Workshop for the subject Signals & Systems (2015 pattern and 2019 pattern)
- Worked as Resource Person in SPPU Faculty Orientation Workshop for the subject Fiber Optics Communication (2019 pattern)
- Delivered Guest lecture for the subject Signals & Systems in various Colleges affiliated to SPPU
- Worked as Resource Person in Virtual Labs: Hands on Online Workshop organized by SCOE in association with PVG College of Engineering & Technology & GKPIOM, Pune under Virtual Labs – IIT Bombay on 2 December 2022
- Worked as Resource Person at Cusrow Wadia Institute of technology, Pune on topic Microwave Antennas

## SUBJECTS TAUGHT:

- Signals & Systems
- Electrical Circuits

- Control Systems
- Analog Communication
- Network Analysis
- Electromagnetics
- Electromagnetics & Transmission Lines
- Electromagnetics & Field Theory
- Antenna and Wave Propagation
- Microwave Engineering
- Radiation & Microwave Theory
- Optical Fiber Communication
- Statistical Signal Processing
- Statistical Signal Processing
- Optical Networks

### **FDP/STTP/SDP/WORKSHOPS ATTENDED**

- Attended one-week STTP on AI Integration of Energy Efficient Architectures in VLSI Design during 5<sup>th</sup> to 9<sup>th</sup> August 2024 organized by SCOE E &TC Dept.
- Attended one-week FDP on Antenna & RF Design for Modern Wireless Systems from 10 July 2023 to 14 July 2023 organized by Muthayammal Engineering College, Rasipuram, Tamilnadu.
- Attended one-week FDP on Recent Trends in Artificial Intelligence & Data Science from 24-28 July 2023 organized by SCOE E &TC Dept.
- Attended one-week FDP on Recent Advances in Deep Learning and its Multidisciplinary Approach” held during 23.01.2023 to 28.01.2023 organized by SCOE
- Attended one-week FDP on “Recent Innovations and challenges in antenna" from 10 October to 17 October 2022 at Defense Institute of Advanced Technology Pune.
- Attended live on-line workshop on Basics of Electric Vehicles and Its Design Process by EDUX labs from 5-7 October 2022.
- Attended one-week FDP on Machine Learning organized by Dept. of IT, SIT, Lonavala, Pune from 7th to 11th Dec. 2022.
- Attended one-week FDP on Machine Learning & Its Applications” during 16th March – 20th March 2021 organized by Sharad Institute of Technology, College of Engineering, Yadrav (Ichalkaranji).
- Attended one-week FDP on Artificial Intelligence Using Python organized by AISSMS from 14 September 2020 to 19 September 2020
- Attended one-week FDP on Algorithms & Techniques for Signal Processing organized by COEP, Pune from 14 July 2020 to 18 July 2020
- Attended one-week STTP on Electromagnetics, Microwave , RF and Antenna Design using Ansys HFSS organized by Shri Vishnu College of Engineering for Women, A.P. ,21-26 September 2020
- Attended one-week STTP on Challenges & opportunities in Smart city Implementation in IoT era organized by JSPM’s RSCOPE from 19 to 24 October 2020
- Attended one-week AICTE approved STTP on Energy Efficient Techniques for 5G Wireless Communications organized by PICT, Pune from 17-22 August 2020

## CONFERENCES ATTENDED:

- NCPC 2020 at SCOE E &TC Dept
- International Conference on Pervasive Computing ICPC 2015, 8-10 Jan 2015
- First International Conference Technovision - 2014 ,” April 5-6, 2014
- Attended NCPC 2010 , 9-10 April 2010 at SCOE E &TC Dept

## RESPONSIBILITIES HANDLED AT STES/SCOE/DEPT:

### Society Level

- Working as a central coordinator for Sinhgad NEON (Sinhgad Spring Fest) formerly known as Sinhgad Karandak from 2018
- Represented STES promotional activity at Indian Science Congress at Kolkata, West Bengal 3-7 January 2013
- Organizing committee member for International Telecommunication Union (ITU)International Conference (ITU) held at Narhe Campus

### Institute Level (SCOE)

- Cultural Coordinator of SCOE from 2014
- NAAC Criteria 5 Coordinator

### Department Level (E&TC)

- Teacher Guardian, Class Teacher
- Organizing committee member for various Staff Development Programs & National, International Conferences
- Departmental Industrial Visit coordinator
- Departmental Faculty seating arrangement coordinator
- Departmental Online Exam Coordinator
- NBA criterion 7 Coordinator
- Second Year Academic Coordinator
- Project Guide for BE & ME students

## DECLARATION:

I hereby declare that all the above information furnished by me are true to the best of my knowledge.

Date: 09 / 12 / 2024

Signature