Dr. Sandeep Vinayak Gaikwad

Associate Professor,
Dept. of Electronics &Telecommunication Enggineering (E&TCE),
SCTR's Pune Institute of Compter Technology (PICT), Pune
Mobile: +91 9763858666 Email: svgaikwad@pict.edu

I. QUALIFICATION :

2017	Ph.D.	SPPU
2008	ME (Microwave)	UoP
2004	BE- E&TC	UoP
1996	DERE	CWIT

II. RESEARCHER ID :

ORCID	:	https://orcid.org/0000-0001-6772-5346
Google Scholar Link	:	https://scholar.google.com/citations?user=ccnA2SIAAAAJ&hl=en

III. PROFESSIONAL EXPERIENCE (ACADEMIA & INDUSTRY):

1. PUNE INSTITUTE OF COMPUTER TECHNOLOGY: Associate Professor, 18 Years
2. CUSROW WADIA INSTITUTE OF TECHNOLOGY: Lecturer, 1 Years 6 months
3. INDUSTRY: Electronics Engineer, 9.9 Years

IV. AREAS OF INTEREST:

1. Product development
2. Automation system
3. Design of Antenna
4. Embedded systems etc.

V. FUNDED PROJECTS AND CONSULTANCY:

RESEARCH PROJECTS :

1. BCUD Research project: SPPU, Rs 2,00,000/- Year (2014-2016)

VALUE ADDITION PROJECTS:

1. Development of applicator to control insect pests in agriculture:PICT and SAMEEER, IIT Mumbai campus, Sabbatical leave from 1st Oct. 2013 to 31st Jan. 2014
2. Horn Antenna Trainer: PICT, 2016
3. Contactless flush: PICT, 2021
4. EV prototype : PICT, 2022

CONSULTANCY :

1. **Knorr Bremse Ind. Pvt. Ltd.:** Electronics training and technical support, 2023, Amount -Rs 64,000/-
2. **Krystel Co services LLP (shiv Techno Patents):** iDOST, 2024-2025, Amount- Rs 7,50,000/-

VI. ACHIVEMENTS / AWARDS

1. Best Paper Award: IEEE- Indicon 2015
2. Invites speaker: IMPI Symposium- New Orleans, USA, 2014
3. SPPU (Young scientist travel grant) -USA, 2014

VII. MEMBERSHIP OF PROFESSIONAL BODIES

1. Indian Society For Technical Education(ISTE): LMISTE NO - LM83686

VIII. DEPARTMENTAL AND CENTRAL RESPONSIBILITIES

Department Responsibilities:

DAB member

DCC member

Consultancy

Technical domain: Embedded system & VLSI

Industry supported Lab: e-Yantra

Head of Department (E&TC)- 2019-2022

Extension and Extra curricular activities member

Industrial visit Co-ordinator

Project guide for BE and ME students

ME seminar coordinator

Central responsibilities:

Deputy CEO

Incharge: Robotics club PICT

ABC ID coordinator

CEO (College Examination Officer) since Aug.2017-June 2019

R.O.D. committee In-charge - 2015-2017

Worked as Expert of central , maintenance committee

Anti ragging team member

IX. RESEARCH PUBLICATIONS :

SCI INDEXED JOURNAL PUBLICATIONS (PLEASE MENTION Q1 / Q2 / Q3/ Q4)

1. Sandeep V. Gaikwad, Arun N. Gaikwad,"RF and Microwave Low power dielectric Heating using Parallel Plate applicator to control insect pest on Tomato Plant", Progress In Electromagnetic Research M,Vol.49, pp 81-89, Aug.2016

2. Rsrimathy, S.D.Hake, S. V. Gaikwad,"Design, Analysis and Fabrication of Dual Frequency Distinct Bandwidth Slot Loaded Wash Cotton Flexible Textile Antenna for ISM Band Applications", Progress In Electromagnetic Research M, Vol.109, pp 191-203, April 2022

SCOPUS INDEXED JOURNAL PUBLICATIONS

3. Sandeep V. Gaikwad, A.Y., Borkar, V.N., Aher, V.G., Padwal,"Design of rectangular wave guide to coaxial wire microwave source system for the differential dielectric heating in agriculture using parallel plate applicator",International Journal of Intelligent Systems and Applications in Engineering, Vol. 12, Issue-2s, Pg:713-717, JAN.2024

4. Sandeep V. Gaikwad, Bhalke D., R. Pol, "Quality Evaluation of an Apple using Non-Invasive Microwave Technique, International Journal of Intelligent Systems and Applications in Engineering, Vol. 12, Issue-3s, pg: 666–671, FEB. 2024

5. Sandeep V. Gaikwad, R. Pol, A.Y., Borkar, "Smart Inventory system using IoT and cloud, International Journal of Intelligent Systems and Applications in Engineering, Vol. 12, Issue-4s, Pg: 187–192, MARCH 2024

6. R. Pol, Sandeep V. Gaikwad, Bhalke D., "Autonomous navigation, SLAM, AMCL using ROS on differential drive robot", International Journal of Intelligent Systems and Applications in Engineering, Vol. 12, Issue-5s, Pg: 46–53, MARCH 2024.

UGC CARE JOURNAL PUBLICATIONS

1. Design and analysis of Log periodic dipole array antenna, ICTACT Journal on Microelectronics, Vol.5, Issue- 03, pp 836-844, Jan. 2019.

2. Detection of cloud top height, cloud base, cloud height and cloud temperature using ka-band radar data, International Journal of Computer Sciences and Engineering, Vol.8, Issue12, pp 10-14, Dec.2020.

REFERRED JOURNAL PUBLICATIONS

1. Sandeep V. Gaikwad, Arun N. Gaikwad," RF & MW radiation based solution for Insect control in Agriculture: A Review and Proposed System", *International Journal of Scientific & Engineering Research,* Vol-3, Issue-12, pp. 1-7*, 2012.*

INDEXED CONFERENCE PUBLICATIONS

1. Sandeep V. Gaikwad, Gaikwad A. N., Harsh Rajesh, Gupta Aurag,"Low power microwave heating to control insect pests on tomato plants", *International Microwave Power Institute (IMPI) 48th Symposium* 2014 New Orleans, Louisiana, USA, 18-20 June 2014. (Invited Paper)- Travel grant by SPPU (Web of Science).

2. SV Gaikwad, AN Gaikwad, R Harsh, A Gupta,"Simulation modeling and implementation of RF and MW system to control the insect pests in agriculture", *Annual IEEE India Conference (INDICON)*, 1-4, 2015 .

3. P.A. Herwade, Sandeep V. Gaikwad, "Design of Broadband Delta Loop Antenna and Balun for Ionosonde Application", *IEEE- INDICON 2015*, 17-20 December 2015**.**

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4. Neha Asutkar, Sandeep Gaikwad, "Design and Analysis of Four Channel Phased Array RF Coil for Spine scan using 1.5T MR System", *International Conference On Advances in Communication and Computing Technology (ICACCT)* ACoE, Sangamner, Ahmednagar, India. pp 611-615, Feb 8-9, 2018

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5. Radhika Dapkar, Sandeep Gaikwad,"Design Decoupling Methods of Multichannel Phased Array Receive Only RF Coil for Different Structures of 1.5T MRI", *International Conference On Advances in Communication and Computing Technology (ICACCT)* ACoE, Sangamner, Ahmednagar, India. pp 606-610, Feb 8-9, 2018

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6. Rutuja Patwardhan, Sandeep Gaikwad, "Procedural Development of RF Tx/Rx Circularly Polarized Birdcage Coil at 1.5T MR system", *International Conference On Advances in*

	Communication and Computing Technology (ICACCT) ACoE, Sangamner, Ahmednagar, India. pp 616-618, Feb 8-9, 2018 **SCOPUS**

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Dr. Sandeep V. Gaikwad