

RESUME



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Scopus id: <https://www.scopus.com/authid/detail.uri?authorId=59288238400>

Researcher id: <https://www.webofscience.com/wos/author/record/LFU-4778-2024>

Google scholar id: <https://scholar.google.com/citations?user=yYHMwuAAAAAJ&hl=en>

Name: Dr. Sandeep Kishanrao Kakade

Mobile no: +91- 9673002008

Highest Qualification: Ph. D (ECE)

Discipline: Electronics & Telecomm.

Education

Qualification	University/Board	Year of passing	% Marks
Doctor of Philosophy (Ph. D) in ECE	Nirwan University, Jaipur	15 MAY 2025	
M.E. (Communication Engg.)	Dr.B.A.M.U Aurangabad	2012-13	64.06%
B.E (E&TC)	Dr.B.A.M.U Aurangabad	2005-06	66.50%
Diploma in Electrical Engg.	MSBTE,Mumbai	2002-03	62.24%
Diploma in MCJ	YCMOU, Nashik	2014-15	63.75%
S.S.C	Latur	1998-99	74.66%

Work Experience

- Working as an **Assistant professor** in E & TC Department @ **Vilasrao Deshmukh Foundation Group of Institutions**, Plot No.165A, Additional MIDC,Near to Manjara Sugar, Barshi Road, Latur, Maharashtra 413531 (Approved by A.I.C.T.E.,New Delhi & Govt. of Maharashtra, Affiliated to DBAT University) From) **13/09/2023 to till date**
- Work as an **Assistant professor** in E & TC Department @ **JSPM Group of Institues | SBERCT's Bhagwant Institute of Technology** , Gate No.1242, Tadsaundane Road, Latur - Kurduwadi Bypass, Barshi-413411..(Approved by A.I.C.T.E.,New Delhi & Govt. of Maharashtra, Affiliated to DBAT University) From) **07/10/2021 to 12/09/2023 (1 year, 11 months)**
- Work as an **Assistant Quality Manager** at Digicon Electronics Pvt. Ltd. at Koregaon, Tal. Shirur, Dist. Pune from **25/02/2019 to 30/04/2020 (1 year, 2 months)**
 - Updated & maintained ISO-9001 procedures, work instructions & related documents.
 - Developed and implemented PCBA traceability Process.
 - Updated and maintained Daily ESD & process level audit Program.
 - Conduct monthly ESD& Quality Assurance Audits.
 - Executed & maintained the various LG Electronics based task i.e. PLT, UPPH etc.
 - Ability to effectively manage & supervise quality personnel.
 - Provide guidance and assistance to the production team in New model development of LG HD/FHD/UHD/OLED PCBA (76 models)

- Work as an **Assistant professor and Head** in E & TC Department @ Samanvay Pratishthan's Institute of Knowledge ,Pimple Jagtap, Tal-Shirur, Dist-Pune, Maharashtra, India., Tal.-Shirur, Dist.-Pune 412216.(Approved by A.I.C.T.E.,New Delhi & Govt. of Maharashtra, Affiliated to Savitribai Phule Pune University) **From 08/08/2016 to 23/02/2019.**
(2 years,6 months)
 - **Pune University approval No CCO /4005 dated 01/12/2016.**
 - **Pune university permanent approval No CCO/1126 dated 14/05/2018.**
 - **Pune University Post Graduate Teacher approval under the faculty of Science & Technology, Letter No -BOD/Sci & Tech/12/1139 Dated 29/10/2018.**
- Work as a **Assistant professor** in E & TC Department @ AAEMF's College Of Engineering & Management studies, Koregaon Bhima, Tal.-Shirur, Dist.-Pune 412216.(Approved by A.I.C.T.E.,New Delhi & Govt. of Maharashtra, Affiliated to Savitribai Phule Pune University) From **06/08/2008 to 06/08/2016.(8 Years)**
 - Worked as **Head of the department of E& TC department** in same institute
 - Work as Vice-Principal in COE&MS Koregaon Bhima from 01/11/2013 to 06/08/2016.
 - Worked as IN charge Principal in COE&MS Koregaon Bhima from 25/02/2015 to 24/02/2016.
 - **Pune University approval No CCO /2314 dated 30/03/2010.**
 - **Pune university permanent approval No CCO/3023 dated 26/09/2013**
- Work as a **Lecturer** in E & TC Department @ JCEI's Institute of Technology, Kuran, Tal. Junnar, Dist. - Pune. (ISO 9001-2000 Certified & Approved by A.I.C.T.E., New Delhi & Govt. of Maharashtra) From **14/08/2006 To 05/08/2008 (1 year, 11 months)**
 - Worked as **Training and Placement Officer** in the same institute.

Computer Skills

Antenna Design & Simulation: HFSS (ANSYS)

Circuit Design & Simulation: Multisim, Proteus

Programming Languages: MATLAB.

Data Analysis & Plotting: MATLAB, MS Excel

Documentation & Reporting: Microsoft Office Suite (Word, PowerPoint, Excel)

<u>Academic Projects</u>	
B.E.	
Project Name: Microcontroller Based Chemical Mixing plant.	
Description: The objective of this project is, External programming can be done by using external switches, facility of displaying time and temperature, facility of controlling atmospheric temperature. There is no human contact during process.	Tools & Technologies Used: Microcontroller-AT89C51

<u>Academic Projects</u>	
M.E.	
Project Name: Digital Watermarking using DCT algorithm for copyright protection.	
Description: The objective of this project is, any image can be protected from various attacks such as cropping adding Noise etc. With the help of security key / password we can embed a watermark image in to the Host image which we have to protect.	Tools & software Used: Discrete cosine transform (DCT) Mat lab 2012R

<u>Research Work</u>	
Ph. D	
Ph.D. Research Title: Design and Evaluation of Multi Input Multi Output Microstrip Patch Antenna for Fifth Generation Application	
Description: Designed and developed 2-element and 4-element MIMO microstrip patch antennas targeting Sub-6 GHz frequency bands suitable for 5G applications. The design and simulation were carried out using HFSS software. Both antenna configurations were successfully fabricated, with the 4-element MIMO antenna demonstrating improved gain, better isolation, and enhanced overall performance, making it highly suitable for next-generation wireless communication systems.	Tools & software Used: HFSS software Antenna Fabrication at IIT Roorkee

Guidance to Ph. D students:**Awarded: 00, In-progress: 02**

Sr. No	Name of Student	Thesis Title	Status
01	Rajesh Udayabhanu Ingale Enroll.No.202450700003	Smart AI Models for Real Time Power Quality Disturbances Monitoring and Mitigation in IEEE Bus	In-progress
02	Mr. Shripad Vithal Kulkarni Enroll. No. 202450700012	Adaptive Optimization of Read/Write Performance in Distributed Systems in Object Storage for Mixed Workloads	In-progress

Conference**International: 05, National: 02**

1. Presented paper in International conference on “**Environment, Agriculture and Human Welfare: A Review of Sustainable Development Goals – 2030**” at Nirwan University, Jaipur (RJ) on 03-05 June 2023
2. Presented paper in 2nd International conference on “**Advancement in Science, Technology and Management 2023**” at S.B. Jain Institute of Technology, Management and Research, Nagpur on 27-28 July 2023
3. Presented paper in National conference on “**Emerging Trends in Engineering & Sciences (NCETES)-JCON2024**” at Jaihind College of Engineering, Kuran, and Pune. On 11 Mar.2024
4. Presented paper in International Conference on “**India's Internal Security, Artificial Intelligence & Future Perspectives**” at Rajasthan Police Academy Government of Rajasthan on 26 and 27 July 2024.
5. Presented paper in International conference on “**International Conference on Interdisciplinary Approaches to Engineering and Management (ICIAEM 2024)**” at Parvatibai Genba Moze College of Engineering, Wagholi, Tal. Haveli, Dist. – Pune on 13 and 14 June 2024.
6. Presented paper in National conference on “**Emerging Trends in Engineering & Sciences (NCETES)-JCON2026**” at Jaihind College of Engineering, Kuran, Pune. On 2-3 Mar.2026
7. Presented paper in **8th International Conference on Smart Computing and Informatics (SCI-2026)** at Swinburne Vietnam, Hanoi Location, Vietnam on 28 and 29 April 2026.

Paper Published:**Scopus: 04. UGC care: 05. Peer reviewed: 05**

- 1 **Peer Reviewed** Published a paper in the International conference on recent trends in Engineering & Technology (ICRTET) held at SNJB College of Engineering, Nashik.

Paper published in International Journal of Electronics, Communication & Soft Computing Science and Engineering ISSN: 2277-9477, Volume 1, Issue 1

Title of Paper: “**Digital watermarking using DCT algorithm for copyright Protection**”.
- 2 **Peer Reviewed** Published a paper in the International Conference on Science And Technology (ICST2K14) held at SB PATIL College of Engineering, Indapur, and Pune.

Paper published in International Journal of Electronics, Communication & Soft Computing Science and Engineering ISSN: 2319-1058, Volume 1, Issue 1, Feb 2014

Title of Paper: **“New DCT Algorithm For Copyright Protection”**.

- 3 **Peer Reviewed** Published Paper in the 3rd International Conference on Recent trends in Engineering and Technology (ICRTET 2014) at SNJB College of Engineering, Nashik on 28-30 March 2014

Title of Paper: **“Watermarking technique using DCT algorithm for protecting digital images”**.

- 4 **UGC CARE** Published paper in the Indian Journal of Technical Education (IJTE)

Title of Paper: **“Review of Multiple Input Multiple Output Antennas for sub 6 GHz 5Th generation application”**.

IJTE-ISTE, Volume 46 Special Issue 1 September 2023, PP.212-217, ISSN 0971-3034

Link: https://www.ijteonline.in/special_issues

- 5 **UGC CARE** Published paper in the Indian Journal of Technical Education (IJTE)

Title of Paper: **“Review of Different Antenna Designs for Fifth Generation Applications”**.

IJTE-ISTE, Volume 47 Special Issue 1 April 2024, PP. 1-5, ISSN 0971-3034

Link: https://www.ijteonline.in/special_issues

- 6 **UGC CARE** Published paper in the Indian Journal of Technical Education (IJTE)

Title of Paper: **“Comparative Analysis of Circular Microstrip Patch Antenna Arrays with and without Electromagnetic Band gap Structure for 2.45 GHz Applications”**.

IJTE-ISTE, Volume 47 Special Issue 1 April 2024, PP. 227-230, ISSN 0971-3034

Link: https://www.ijteonline.in/special_issues

- 7 **UGC CARE** Published paper in the Indian Journal of Technical Education (IJTE)

Title of Paper: **“A Compact High Gain Patch Array Antenna for RFID Application”**.

IJTE-ISTE, Volume 47 Special Issue 1 April 2024, PP. 267-270, ISSN 0971-3034

Link: https://www.ijteonline.in/special_issues

- 8 **Scopus indexed** Published paper in the International Research Journal of Multidisciplinary Scope (IRJMS)

Title of Paper: **“Design of Slotted Patch MIMO Antenna and Investigation of Antenna Parameters for Sub-6 5G Network”**.

International Research Journal of Multidisciplinary Scope (IRJMS), 2024; 5(3):514-523, Original Article | ISSN (O): 2582-631X

DOI URL: <https://doi.org/10.47857/irjms.2024.v05i03.0994>

- 9 **Peer** Published paper in the International Journal of Innovations & Research Analysis (IJIRA)

- Reviewed** Title of Paper: **“Sub-6 5G Networks: Design of Button Mushroom MIMO Antenna and Its Investigation”**.
ISSN: 2583-0295, Impact Factor: 6.238, Volume 04, No. 03(I), July - September, 2024, pp 21-30
DOI URL: [https://doi.org/10.62823/IJIRA/4.3\(I\).6789](https://doi.org/10.62823/IJIRA/4.3(I).6789)
- 10 UGC CARE** Published paper in the Indian Journal of Technical Education (IJTE).
Title of Paper: **“Design and Performance Analysis of 2 and 4-Element MIMO Antennas for Enhanced Gain in Sub-6 GHz 5G Applications”**.
IJTE-ISTE, Volume 48 Special Issue 2, January 2025, PP. 60-68, ISSN 0971-3034
Link: https://www.ijteonline.in/special_issues
- 11 Scopus indexed** Published paper in the International Journal of Advanced Technology and Engineering Exploration (IJATEE)
Title of Paper: **“High-isolation dual-band slotted patch MIMO antenna for sub-6 GHz 5G applications”**.
International Journal of Advanced Technology and Engineering Exploration, Vol 12(123) ISSN (Print): 2394-5443 ISSN (Online): 2394-7454
DOI URL: <http://dx.doi.org/10.19101/IJATEE.2024.111100612>
- 12 Scopus indexed** Published paper in the International Research Journal of Multidisciplinary Scope (IRJMS)
Title of Paper: **“A Novel Four-Element Button Mushroom MIMO Antenna for Enhanced Sub-6 GHz 5G Communication”**.
International Research Journal of Multidisciplinary Scope (IRJMS), 2025; 6(2): 397-409, Original Article | ISSN (O): 2582-631X
DOI URL: <https://doi.org/10.47857/irjms.2025.v06i02.03051>
- 13 Peer Reviewed** Published Paper in the International Journal for Innovative Research in Multidisciplinary Field (IJIRMF)
Title of Paper: **“Design and Implementation of an ESP32-Based Bluetooth-Enabled Automatic Bell System with RTC Synchronization”**.
International Journal for Innovative Research in Multidisciplinary Field (IJIRMF), 2025; Vol. 11, Issue 9, September 2025 | ISSN (O): 2455-0620 | page (209-215)
URL: <https://www.ijirmf.com/wp-content/uploads/IJIRMF202509030-min.pdf>
- 14 Scopus indexed** Published paper in the AUT Journal of Mechanical Engineering
Title of Paper: **“Experimental analysis of milled groove conformal cooling in injection molding.”**
AUT Journal of Mechanical Engineering, Research Article | Volume 10, Issue 3, July 2026, Pages 379-388, P-ISSN 2588-2937 E-ISSN 2588-2945
DOI URL: <https://doi.org/10.22060/ajme.2026.24709.6224>

Copyright:**Registered/Granted: 03**

1. **Title:** Design of Slotted Patch MIMO antenna For Sub -6 5G Network

Registration Number: L-146653/2024

2. **Title:** High-Gain Integrated MIMO antenna design for a sub-6 5G network

Registration Number: L-160014/2025

3. **Title:** Portable Grid Analyzing Device

Registration Number: LD-33649/2025-CO

Patent**Granted: 05****Published: 01**

1. **Indian Patent:** Adaptive Beam forming Techniques Using AI for 5G and Beyond Wireless Communication Systems.

Application Number: 202441078465.

2. **Indian Patent:** Portable Grid Analyzing Device

Design No.: 467615-001 **Grant/ Issue Date:** 09/10/2025

3. **Indian Patent:** Wireless Sensor Based Railway Track Crack Detection Device

Design No.: 464849-001 **Grant/ Issue Date:** 16/10/2025

4. **International Patent (UK):** 5G-Enabled High-Speed Data Transmission and Communication Device

Design No.: 6479573 **Grant Date:** 24/10/2025

5. **Indian Patent:** Microwave Antenna for 5G Wave Transmission

Design No.: 485264-001 **Grant/ Issue Date:** 02/03/2026

6. **Indian Patent:** Fractal Antenna for Wireless Communication

Design No.: 482141-001 **Grant/ Issue Date:** 26/03/2026

Book Publication**Total: 04**

1. **Fundamentals of Antenna Theory and Design**

ISBN: 978-81-992599-7-3

Authors: Dr. Kakade Sandeep Kishanrao, Prof. Kuldip Kamalakar Dadpe, Prof. Zarkar Geetanjalee Ashok

Publisher: Pencil Bitz

Date of Publication: 02 September 2025

Link: <https://pencilbitz.com/fundamentals-of-antenna-theory-and-design-book>

2. **Artificial Intelligence in Smart Agriculture for Sustainable Crop Management and Precision Farming**

ISBN: 978-93-49552-36-4

Authors: Mr. Rajiv Kumar Nath, Dr. Shrishail Sidram Patil, **Dr. Kakade Sandeep Kishanrao**, Dr. Sabiyath Fatima

Publisher: RADemics Research Institute
Date of Publication: October 2025
Doi Link: <https://doi.org/10.71443/9789349552364>

3. **Advanced MIMO Antenna Design for 5G Networks**
E book ISBN: 978-93-7415-325-3
Hard back ISBN: 978-93-7415-394-9
Author: Prof. Dr. Kakade Sandeep Kishanrao
Publisher: Black horse publish
Date of Publication: December 2025
4. **Antenna Systems and 6G Communication Networks**
ISBN10: 9349552647 ISBN13: 9789349552647
Authors: Dr. Kakade Sandeep Kishanrao, Dr. Nitin Mohan Shivale, Dr. Sonawane Vijay Dhanaraj, Dr. Shrishail Sidram Patil
Publisher: RADemics Research Institute
Date of Publication: March 2026
Doi Link: <https://doi.org/10.71443/9789349552647>

Book Chapters

Total: 07

1. **Title:** AI Enabled Decision Making in Disaster Prediction and Emergency Response Management.
Authors: Kakade Sandeep Kishanrao, Zarkar Geetanjalee Ashok, S. Ranganathan
Book Title: Artificial Intelligence in Multidomain Systems for Intelligent Decision Making and Automation (Chapter 9, pp. 236-261)
Publisher: RADeMics Publishers, India
ISBN: 978-93-49552-35-7 | **Edition:** July 2025
Doi Link: <https://doi.org/10.71443/9789349552357-10>
2. **Title:** Smart Water Management Systems in Urban and Rural Infrastructure Development.
Authors: Gethara Gowri, Deshmukh Abhijit Uttamrao, **Kakade Sandeep Kishanrao.**
Book Title: Artificial Intelligence in Multidomain Systems for Intelligent Decision Making and Automation (Chapter 10, pp. 261-292)
Publisher: RADeMics Publishers, India
ISBN: 978-93-49552-35-7 | **Edition:** July 2025
Doi Link: <https://doi.org/10.71443/9789349552357-09>
3. **Title:** Smart Farming: Crop Yield, Soil Monitoring, & Precision Agriculture
Authors: Dr. Kakade Sandeep Kishanrao, Honrao Sachin Babanrao, Dr. Deshpande Asmita Sumant, Prof. Shrishail Sidram Patil
Book Title: Innovations in Machine Learning: Techniques and Trends (Chapter 7, pp. 40–49)
Publisher: Pencil Bitz Publications, Coimbatore, Tamil Nadu, India
ISBN: 978-93-48556-35-6 | **Edition:** 1st, June 2025
Link: <https://www.pencilbitz.com/edited-book-innovations-in-machine-learning.php>
4. **Title:** IoT Hardware: Sensors, Actuators, and Embedded Systems
Authors: Dr. Kakade Sandeep Kishanrao, Dr. Deshpande Asmita Sumant, Prof. Deshmukh Abhijit Uttamrao, Prof. Zarkar Geetanjalee Ashok
Book Title: Internet of Things (IoT): Emerging Trends, Applications, and Challenges (Chapter 18, pp. 177-185)

Publisher: Pencil Bitz Publications, Coimbatore, Tamil Nadu, India

ISBN: 978-81-991695-3-1| **Edition:** 1st, Aug.2025

Link:[https://www.pencilbitz.com/edited-book-internet-of-things\(IOT\)-book.php](https://www.pencilbitz.com/edited-book-internet-of-things(IOT)-book.php)

5. **Title:** Sustainable IoT Systems: Power Optimization and Eco-Friendly Innovation
Authors: Dr. Kakade Sandeep Kishanrao, , Prof. Deshmukh Abhijit Uttamrao, Prof. Zarkar Geetanjalee Ashok, Prof. Deshmukh Abhijit Uttamrao, Prof. Dadpe Kuldip Kamlakar
Book Title: Internet of Things (IoT): Emerging Trends, Applications, and Challenges (Chapter 08, pp. 72–81)
Publisher: Pencil Bitz Publications, Coimbatore, Tamil Nadu, India
ISBN: 978-81-991695-3-1| **Edition:** 1st, Aug. 2025
Link: [https://www.pencilbitz.com/edited-book-internet-of-things\(IOT\)-book.php](https://www.pencilbitz.com/edited-book-internet-of-things(IOT)-book.php)
6. **Title:** Artificial Intelligence Technologies in Sustainable Agriculture Systems.
Authors: **Kakade Sandeep Kishanrao**, Zarkar Geetanjalee Ashok, Deshmukh Abhijit Uttamrao
Book Title: Artificial Intelligence in Smart Agriculture for Sustainable Crop Management and Precision Farming (Chapter 1, pp. 14-37)
Publisher: RADeMics Publishers, India
ISBN: 978-93-49552-36-4| **Edition:** October 2025
Doi Link: <https://doi.org/10.71443/9789349552364-01>
7. **Title:** AI Enhanced Drones for Precision Seeding Spraying and Soil Mapping
Authors: **Kakade Sandeep Kishanrao**, Kuldip Kamalakar Dadpe, Deshmukh Abhijit Uttamrao
Book Title: Artificial Intelligence in Smart Agriculture for Sustainable Crop Management and Precision Farming (Chapter 12, pp. 319-348)
Publisher: RADeMics Publishers, India
ISBN: 978-93-49552-36-4| **Edition:** October 2025
Doi Link: <https://doi.org/10.71443/9789349552364-12>

Professional Membership Details

Total: 02

1. **Life Time Panel Membership** of Star International Foundation for Research and Education Approved by Government of India (Registered Under Trust Act) / ISO 9001-2015 Certified / 12AA & 80G Approved

Membership id Number: SIFRE/2022/176

2. **Life Time Membership** of International Association of Engineers (IAENG), Hong Kong (Registered Professional Organization)

Membership ID Number: 525466 | Since: 30 July 2025

Editorial & Review Experience

Total: 13

1. **Associate Editor**, VINSAPublishing – Editorial Board Team

Link: <https://vinsapublishing.com/editorial-board-members/>

2. **Reviewer – Radius: Journal of Science and Technology**

An International Bi-Annual Peer-Reviewed Refereed Journal

ISSN: 3049-0774; Link: <https://scholarlypublication.com/radius>

3. Reviewer, Asian Journal of Research and Reviews in Physics (ISSN: 2582-5992)

- Awarded Certificate of **Excellence in Reviewing** for the academic year 2025–2026 in recognition of outstanding contribution to the quality of the journal.
- Certificate No.: **PRAJR2P140317KAK**

4. Reviewer, International Journal of Applied Power Engineering (Scopus Q2 Journal) (ISSN: 2252-8792)

- Awarded **Certificate of Appreciation** as Reviewer on 12 September 2025 for contributions to maintaining the quality of the journal.
- Certificate No.: **21936/IJAPE/1-1/IX/2025** Paper id -21936

5. Reviewer – 2nd International Conference on Integration of Computational Intelligent Systems (ICICIS 2025)

- Organized by Ajeenkya D. Y. Patil University, Pune, and Co-organized by IEEE Bombay Section, held on 9–12 September 2025.

6. Reviewer, International Journal of Applied Power Engineering (Scopus Q2 Journal) (ISSN: 2252-8792)

- Awarded **Certificate of Appreciation** as Reviewer on 24 Oct. 2025 for contributions to maintaining the quality of the journal.

Certificate No.: **21917/IJAPE/I-RI/X/2025** Paper id -21917

7. Reviewer – 8 th IEEE Pune Section International Conference IEEE PUNECON 2025 on Theme: Generative Futuristic Systems

- Organized by Savitribai Phule Pune University, Pune held on 12–15 December 2025.

8. Reviewer – International Conference on Interdisciplinary Technology & Science Convergence (FusionX Global) ICITSC 2025

- Organized by Pimpri Chinchwad College of Engineering and Research, Ravet, Pune, held on 26–27 December 2025.

9. Reviewer, Physical Science International Journal (ISSN: 2348-0130)

- Awarded **Certificate of Appreciation** as Reviewer on 29 January 2026 for contributions to maintaining the quality of the journal.
- Certificate No.: **Certificate No: PRPSIJ151832KAK**

10. Reviewer –International Conference on Emerging Technologies and Future Innovations (ETFI-2026)

- Organized by School of Engineering and Technology, DES Pune University, Pune, held on 12th to 14th February 2026

11. Reviewer- Asian Journal of Physical and Chemical science (ISSN: 2456-7779)

- Awarded Certificate of **Excellence in Reviewing** for the academic year 2025–2026 in recognition of outstanding contribution to the quality of the journal.
- Certificate No.: **PRAJOPACS155010KAK**

12. **Reviewer – 2nd IEEE International Conference on Computing, Communication and Green Engineering (CCGE-2026)**

- Organized by **JSPM Rajarshi Shahu College of Engineering (RSCOE)**, held on 7th and 8th May 2026.

13. **Reviewer – IEEE International Conference on Intelligent and Sustainable Electronics & Computing Technologies (INSECT) 2026**

- Organized by **Dr. D. Y. Patil Institute of Technology, Pimpri, Pune, India.**, held on 29th and 30th May 2026.

Academic Leadership / Conference Roles

Total: 01

- [1] Invited as **Session Chair** for the *National Conference on Future Trends in Generative Artificial Intelligence (FuGenAI-2026)*, organized by M. S. Bidve Engineering College, Latur, held on **6th–7th April 2026**.

Resource Person/ Expert Lecture / Expert Talk

Total: 02

- [1] Delivered Session in the One Week Faculty Development Program on **“AI Tool for Academic Research”** organized by Department of Computer Engineering, Marathwada Mitra Mandal’s Institute of Technology, Lohgaon, Pune During 24th to 29th September 2025.
- [2] Delivered Session in the Career Shibir on **“Yuva Shakti Career Shibir”** organized by Government ITI, Nilanga on 20th June 2024.

Workshop/Seminar/FDP/STTP/ Webinar Attended

Total: 67

1. Attended **one day workshop** on **“Instructional Methodologies”** held at Sandeep Foundation’s Sandeep Tech. & Research center, Nashik Organized by **University of Pune**
2. Attended **one day workshop** on **“Syllabus Detailing of SE (ELEX/ETC) SEM II”** held at S.G.R Education Foundation’s College of Engineering & Management, Ahmednagar Organized by **University of Pune**
3. Attended **one day workshop** on **“Modified Teaching Methodologies of BEE & Hands on Experience of Online Examination”** held at Vidya Pratishthans’s College of Engineering, Baramati Organized by University of Pune.
4. Attended **Two days’ workshop** on **“Programmable System on Chip”** Held at Sinhgad Institute of Technology, Lonavala in collaboration with iRF group, Pune and Cypress, Bangalore.
5. Attended **one week faculty development programme** on **“A Graphical Programming Language LabVIEW and Its Real Life Application”** held at College of Engineering, Pune Organized by University of Pune & TEQIP.
6. Attended **Two days’ workshop** on **“Hindi and Marathi Patkarita Ke Badalte Swarup”** Held at S.M.D. College, Kallam in collaboration with **University Grant Commission (UGC)**.
7. Attended **one day workshop** on **“Creativity”** held at AAEMF’s D.G. Walse Patil M.Ed. College, Koregaon Bhima Organized by **University of Pune**.

8. Attended **Three day workshop** on “**Network Simulator 2 for communication**” held at Dr. D.Y. Patil Institute of Engineering and Technology, Pimpri, Pune Organized in collaboration with **University of Pune**.
9. Attended **one day workshop** on “**National Programme on Technology Enhanced Learning (NPTEL)**” held at MIT, AOE, Alandi, Pune Organized in collaboration with **IIT, Madras**.
10. Attended **one day workshop** on “**Bring Your Own Device (BYOD)**” held at Dr. D.Y. Patil Institute of Engineering and Technology, Pimpri, Pune Organized in collaboration with **University of Pune**.
11. Attended **one day workshop** on “**Teaching methodology of Audio video Engg for BE E& TC**” held at DR. D Y Patil Institute of Engineering & Technology Organized by **SPPU, PUNE**.
12. Attended **Two day’s National level faculty development Program** on “**Learning in teaching, teaching for Learning**” held at Dhole Patil College of Engineering, Wagholi Pune.
13. Attended **National Level two days’ workshop** on “**Recent trends in VLSI design Technology using EDA simulation**” held at Dhole Patil College of Engineering, Wagholi Pune in association with NI logic Pvt. Ltd.
14. Attended **STTP** on “**PLC Automation**” held at Dhole Patil College of Engineering, Wagholi Pune is association with Ikode Automation Pvt. Ltd.
15. Attended **State Level two days’ workshop** on “**Design Challenges in Reconfigurable Antenna**” held at JSPM Imperial College of Engineering, Wagholi Pune.
16. Attended IP Awareness/Training program on “**National Intellectual property awareness program**” organized by **Intellectual Property Office, India**
17. Attended National Level workshop” **Multidisciplinary Research Proposal Writing**” organized by Dr. D Y Patil School of Engineering, Lohegaon, Pune on 28 Feb 2022.
18. Attended one day State level webinar on “**Design & Development of Electrical Vehicles**” organized by Parvatibai Genba Moze College of Engineering , Wagholi, Pune.
19. Attended One day National Seminar on “**Quality Enhancement Initiative through Innovative Practice after Covid 19 Era**” organized by G H Rasoni Institute of Engineering and Technology, Pune.
20. Attended One day National Seminar on “**Quality assurance in Hybrid mode of Education**” organized by G H Rasoni Institute of Engineering and Technology, Pune.
21. Attended Two days National level workshop on “**Emerging trends in solar energy**” organized by Parvatibai Genba Moze College of Engineering, Wagholi, Pune.
22. Attended One Week Online Faculty Development Program (FDP) on “**Introduction to Machine Learning**” organized by Sinhgad Institute of Technology, Lonavala
23. Attended and participated in online session & Quiz on “**Business Model Canvas (BMC)**” organized by Pune Vidyrathi Griha College of Engg, Nashik.
24. Attended One Week Online Faculty Development Program (FDP) on “**Machine Learning**” organized by Sinhgad Institute of Technology, Lonavala from 07-11 Dec 2022
25. Attended 5 Day’s International Level Faculty Development Program on “**Data Science using Machine Learning**” organized by Pravara Rural Engineering College in Collaboration with ExcelR from 02-06 Jan 2023

26. Attended workshop on “**Design of Smart Antennas for Wireless Communication using HFSS and CST**” organized by Potti Sriramulu Chalavadi Mallikarjuna Rao College of Engineering & Technology, Vijayawada, Andhra Pradesh From 19-21 Jan 2023
27. Attended workshop on “**Advanced Antenna design using Ansys HFSS – Hands-on Workshop**” organized by NPTEL on 28 Jan 2023
28. Attended one week “Faculty Development Program” on “**Recent Trends in Machine Learning**” under the aegis of IETE Student Forum and Professional Activity Centre of IETE, New Delhi organized by Department of E&TC, AISSMS College of Engineering, Pune from 13th March 2023 to 17th March 2023.
29. Attended webinar on “**The Next Frontier in Wireless Communication: Opportunities and Challenges with Reconfigurable Intelligent Surface**” organized by QIS College of Engineering And Technology in association with IEEE MTT Society student branch on 03 Oct.2023
30. Attended 1 day workshop on “**Cloud Computing AWS and Azure**” organized by Pantech E learning Pvt. Ltd. On 17 Oct.2023
- 31 Attended 1 day workshop on “**IR Filter Design**” organized by Vilasrao Deshmukh foundation Group of Institutions, Latur on 21 Oct.2023
32. Attended 1 week International Faculty Development Program on “**Applications of Business Analytics**” organized by Department of Management Studies, Ramaiah Institute of Technology in Collaboration with ExcelR Edtech Pvt. Ltd. From 09 to 13 Oct. 2023
33. Attended 1 day seminar on “**Need of Electronics as atomization in Industry**” organized by Department of E&TC, Vilasrao Deshmukh Foundation Group of Institutions , Latur in association with Electronics Study Center , Nashik on 04 Nov. 2023
34. Attended International Webinar Series: Webinar on “**Reconfigurable Antennas for Future Wireless Communication Systems** “by Dr.Thennarasan Sabapathy, Faculty of Electronic Engineering & Technology, Pauh Putra Main Campus, University Malaysia Perlis (UnitMAP), Malaysia organized by IETE Chennai Centre on 04 Nov.2023
35. Attended One Week Faculty Development Program (FDP) on “**Rajyoga Meditation & Universal Human Values (UHV)**”organized by Vilasrao Deshmukh Foundation Group of Institutions, Latur in association with Brahma Kumaris Ishwariya Vishwa Vidyalaya from 18 to 24 Nov. 2023
36. Attended 1 week National Faculty Development Program on “**Machine Learning and Artificial Intelligence**” organized by Andhra Pradesh State Skill Development Corporation (APSSDC) in Collaboration with ExcelR Edtech Pvt. Ltd. From 13th Nov. to 17th Nov. 2023.
37. Attended 1 day IP Awareness/Training program on “**National Intellectual property awareness program**” organized by Intellectual Property Office, India on 28 Nov.2023.
38. Attended 1 Day webinar on “**Quality enhancement Unleashing the Entrepreneurial Potential for Personal Finance**” organized by School of Commerce and Management, Nirwan University Jaipur on 27 Dec. 2023.
39. Attended 1 week **Short Term Training Program(STTP) approved by ISTE** on “Recent Development in Advanced Materials” organized by K J's Educational Institute, Pune from 02 To 06 Jan 2024.
40. Attended 1 Day webinar on “**Sustainable Journeys Timeless Memories**” organized by India Tourism Jaipur, **Ministry of Tourism, Govt. of India** & Nirwan University Jaipur on 25 Jan 2024.

41. Attended 3 days **Facilitator Orientation Program (FOP) Facilitator** Orientation Program (FOP) in **21st Century Employability Skills Course** organized by Dr. BATU, Lonere and Wadhvani Foundation from 23-25 Jan 2024.
42. Completed online Course on “Living with Climate change & Water Management” organized by **Government of Maharashtra** on 18 Mar. 2024.
43. Completed online Course on “**Youth Leadership for climate Action**” organized by **Government of Maharashtra** on 18 Mar. 2024.
44. Attended 1 day Workshop on “**Artificial Intelligence for Electronics**” organized by Symbiosis Institute of Technology, Pune on 27 Mar. 2024.
45. Attended 1 day Workshop on “**Building Competence through Behavioral and Work Habit Enhancements**” organized by Vilasrao Deshmukh Foundation Group of Institutions , Latur in association with ACE Soft Skill Solutions, Solapur on 28 Mar. 2024.
46. Attended **1 Week FDP** on “**AWS Cloud Fundamental and Services**” organized by Sinhgad Institute of Technology, Lonavala Department of Information Technology in association with Infosit and Business Club From 27-31 Mar. 2024.
47. Attended 1 day Workshop on “**How costly is software bug in An Embedded Systems**” organized by Symbiosis Institute Of Technology, Pune on 02 Apr. 2024.
48. Attended 1 day Workshop on “**Career Opportunities for E&TC Students in Industry**” organized by Symbiosis Institute Of Technology, Pune on 03 Apr. 2024.
49. Attended 1 day Workshop on “**Impact of Internet of Things on The Society**” organized by Symbiosis Institute Of Technology, Pune on 05 Apr. 2024.
50. Attended **1 Week FDP** on “**Recent Advancement on Microwave and mm Wave Communication (RAMMC 2024)**” organized by Haldia Institute of Technology, West Bengal, India from 08-12 Apr. 2024.
51. Attended 1 Day Symposium on “**NEP 2020**” organized by VVP Institute of Engineering & Technology, Solapur on 05 Oct. 2024.
52. Attended **FDP** on “**Renewable and Sustainable Clean Energy**” organized by Department of Electrical Engineering, S. N. D. Polytechnic, Yeola from 16 Dec 2024 to 18 Dec 2024.
53. Attended **1 Week FDP** on “**Gen AI & Chat GPT Application in the Industry**” organized by Department of MBA & Research Centre, SJC Institute of Technology, Chikkaballapur. Chaitanya Bharathi Institute of Technology Autonomous, Hyderabad – Telangana., India from 27- 31 Jan. 2025.
54. Attended webinar on “**Directional Planar Antennas for UWB and THz Technology**” organized by IEEE Student Branch MNNIT Allahabad on 25 Feb. 2025
55. Attended **1 Week FDP** on “**Next Gen AI Skills: A practical approach for Educator**” organized by Department of Artificial Intelligence and Data Science, VIT, Pune From 24-28 Mar. 2025.
56. Attended **1 day Workshop** on “**AI for students: Building Your Own Generative AI Model**” organized by Next Wave on 22 Mar. 2025.
57. Attended **FDP** on “**Empowering Research Innovations through Mathematical Modeling**” organized by Central University of Kashmir and Vishwakarma Institute of Technology (VIT), Pune, from 09-10 June 2025.

58. Attended **FDP** on “**AI Tools for Research Paper Writing**” organized by Department of Artificial Intelligence & Machine Learning, IT & CS ,Srinivasan College of Arts and Science, Perambalur, Tamilnadu in association with Pencilbitz, on 11 June 2025.
59. Attended **2 Week FDP** on “**Internet of Things**” organized by Skill Dezire in collaboration with **AICTE** from 01- 18 Aug. 2025.
60. Attended **5 Days FDP** on “**IPR and Patenting: An Academic Perspective**” organized by Department of Computer Engineering, ADYPSOE, Pune from 26th, 28th to 31st Aug 2025.
61. Attended **1 day Webinar** on “**Smart Grids and Energy Security: Towards a Resilient Power Infrastructure**” organized by IEEE Student Branch and IETE ISF Forum Study World College of Engineering, Coimbatore on 12 Sept. 2025.
62. Attended 1 week **FDP** on “**AI Tool for Academic Research**” organized by Department of Computer Engineering, Marathwada Mitra Mandal’s Institute of Technology, Lohgaon, Pune from 24-29 sept. 2025.
63. Attended 3 Days National level **FDP** on “**Generative AI**” organized by Department of Computer Engineering, MIT Academy of Engineering, Pune, from 29-30 Sept. And 1 Oct. 2025.
64. Attended **IP Awareness/Training program** on National Intellectual Property Awareness Mission (NIPAM) organized by Intellectual Property Office, India on 19 Sept. 2025.
65. Attended 1 week **FDP** on “**Modern Agile Principles for Transforming Educational Practices**” organized by Department of Computer Engineering (Software Engineering), VIT, Pune in association with IEEE Pune section from 8-12 Dec. 2025.
66. Attended 1 week national level FDP on “**Understanding NEP 2020: Shifting Focus from Knowledge Transmission to Skill Development**” organized by Stella Matutina College of Education, Chennai and Sri Vidhya College of Arts and Sciences, Virudhunagar from 1-5 Dec. 2025.
67. Attended 1 week national level FDP on “**Research Excellence using AI Tools: Idea Publication and Patent**” organized by Pimpri Chinchwad College of Engineering (PCCoE), Pune from 23-28 Feb. 2026.

Extracurricular Activities

1. Worked as a **Test Co-coordinator** in E & T.C. Dept at IOT Kuran, Pune.
2. Worked for the preparation of **Shikshan Shulka Proposal COE, Koregaon.**
3. Seeking as the **Cultural secretary** in COE, Osmanabad (2005-06).
4. Co-ordinate in ‘**Technosem Paper Presentation** ‘in IOT, Kuran (2007-08).
5. Worked as **Inchage** of Annual Social gathering” **SNEH-BANDH 2K12, SNEH- BANDH 2K13, ANTARANG 2K16**” at AAEMF’s COE & MS Koregaon Bhima.
6. Worked as **Head of Electronics & Telecommunication Department** in COE&MS Koregaon Bhima.
7. Worked as **guest and expert lecturer in various colleges.**
8. External & internal Sr. supervisor **for various SSPU examinations.**
- 9 Conveyor of National level Technical paper presentation on recent Trends in Engineering on 18 March 2016 organized by E&TC department.
10. In charge and Head of Mega job Fair held on 22 March 2016.

11. Worked as **admission in charge**.
12. Worked as **Criteria Incharge** in IOK, Shikrapur.
13. Worked as **External senior Supervisor** in various colleges for SPPU Exam.
14. Worked as **Flying Squad member** of SPPU examinations.
15. Worked as External Senior Supervisor and Internal Squad of DBATU examination.
16. Organized FDP, Seminar, Workshop, Webinar at VDF GOI, Latur
17. Worked as **Paper setter** of DBATU, Lonere.
18. Worked as External examiner for ME dissertation at SPPU Pune

Subject Taught

Basic Electrical Engineering, Electrical Technology, Basic Electronics Engineering, Fundamentals of Electronics Engineering, Power Devices and Machines, Communication System, Integrated Circuit and Application, Network Synthesis and Filter Design, Computer organization and Architecture, Integrated Circuit, Television & Video Engineering, Power Electronics ,Audio & Video Engineering, Electrical & Electronics Engg., Radiation & Microwave Technique etc. Antenna & wave propagation, Network Theory, Embedded system Design, Electromagnetic Field Theory, Microwave Engineering

<u>Personal Details</u>	
Date of Birth:	29 th Nov. 1983
Category:	SEBC (Hindu-Maratha)
Permanent Address:	'Kakade Niwas', Datta Nagar, At. Post Kallam Tal. Kallam Dist. Dharashiv -413507, Maharashtra.
Languages Known:	English, Hindi, Marathi
Alternate Phone No:	8329289449
E-Mail ID:	kakadesandeep2000@gmail.com entciok@gmail.com

I hereby declare that the above information is true to the best of my knowledge and belief

Yours Faithfully

(Prof. Dr. Sandeep K. Kakade)