

Dr. SACHIN D. RUIKAR

Professor & HOD

Electronics Engg. Dept.
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ORCID ID: <https://orcid.org/0000-0003-1686-2951>

Web of Science Researcher ID: B-3432-2012

[Scopus Author ID: 14819718100](#)

YouTube Channel: <http://www.youtube.com/@lectureseriesbysachinruika1676>

UDEMY Course Profile: <https://www.udemy.com/user/sachin-ruikar-2/>

Google Scholar Link

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

AD Scientific Index ID: 333997

Vidwan ID: 574129

Objective: To be a dedicated and proficient in the field of Research and Development for self, organization and country as a whole.

Summary:

- Ph.D. Completed student: 02
- Ph.D. ongoing student: 03
- PG Student guided: 28
- Workshop organized: 16
- Conference Organized: 04
- Patent Granted: 03
- Conference attended: 08
- No of Research Project: 02
- Research Grants received: 20 lakh
- Guest Lecture Delivered: 06
- Session Chair For International Conference: 02

Publication:

- Book published: 18
- Journal Publications: 53
- Book Chapter Publications: 6
- Conference Publication: 59
- Online MOOC Course created:08

UDEMY Course: 08

Course Profile: <https://www.udemy.com/user/sachin-ruikar-2/>

YouTube Channel: <http://www.youtube.com/@lectureseriesbysachinruika1676>

UDEMY Course:

Course Profile: <https://www.udemy.com/user/sachin-ruikar-2/>

1. **Principle of Tracking Radar**(<https://www.udemy.com/course/principle-of-tracking-radar/?referralCode=32986999A548F2CE5490>)
2. **Optical Link Design Analytical Treatment** (<https://www.udemy.com/course/link-power-budget-methods-for-design-of-optical-link/?referralCode=1116CD14C6C6D34EBCFF>)
3. **Processing of Radar Signal Received in Presence of Noise**(<https://www.udemy.com/course/review-of-radar-signal-received-in-presence-of-noise/?referralCode=4AA55FB14227DCAE82CD>)
4. **Radar System and Modified Radar Range Equation**(<https://www.udemy.com/course/radar-system-and-modified-radar-range-equation/?referralCode=04D8B2159C87A822816B>)
5. **Propagation Effects on Satellite Communication** (<https://www.udemy.com/course/propagation-effects-on-satellite-communication/?referralCode=550A10EBCE791B1E069D>)
6. **Satellite Subsystem and Link Design**(<https://www.udemy.com/course/satellite-subsystem-and-link-design/?referralCode=2CB0F73677C66846BFAA>)
7. **Solid State Active Microwave Devices** (<https://www.udemy.com/course/microwave-solid-state-devices-made-easy/?referralCode=778DBB237A4B5C17BD76>)
8. **Microwave Measurement System** (<https://www.udemy.com/course/microwave-measurement/?referralCode=AAFF3BA20972283AFBA8>)

Certification/Award:

1. **Online course on “Remote Sensing & GIS Technology and Applications for University Teachers & Government Officials”** which was conducted by Indian Institute of Remote Sensing (IIRS), ISRO Dehradun, during 13-06-2020 to 01-07-2020.
2. **TEQIP online certification, two week course on Digital Transformation in teaching learning process, from 14 Feb to 6 March 2020.**
3. **Fifteenth IIRS Outreach Certificate program**, sponsored by National Natural Resource Management System(NNRMS), **Basic Course on “Remote Sensing, Geographical Information System & Global Navigation Satellite System”**, conducted by Indian Institute of Remote Sensing and Indian Space Research Organization, Department of Space, **from 10 August 2015 to 27 November 2015.**
4. **Purdue university (US) online course completed through Purdue NeXt- [Fundamentals of Nanoelectronics: Basic Concepts - S1](#) on March 2015.**
5. **Mission10X certificate** in Teaching and learning at 11 MAY 2009 by WIPRO.
6. **BEST Paper Presentation award** at National conference on Vision, Embedded & Robotics, 1-5 March 2004 by Sensor Technology, Gwalior.

Academic Background:

- **Ph. D.** in Electronics Engineering from Swami Ramanand Teerth Marathwada University on Image Denoising using Wavelet Transform in 2013.
- **M.E.** in Electronics & Telecommunication specialization microwave from Government College of Engineering, Pune in 2002.
- **B.E.** in Electronics & Telecommunication from Government College of Engineering, Aurangabad in 1998.

Research Interests:

- Multimedia, Computer Vision, Image Processing, etc.

Work Experience

- **Associate Professor:** March 2014 onwards, Walchand College of Engineering, Sangli.
- **Associate Professor:** 1 April 2013 to 03 March 2014, *Sinhgad Academy of Engineering*, Kondhwa(Bk), Pune.
- **Assistant Professor:** 12 July 2008 to 31 March 2013, *Sinhgad Academy of Engineering*, Kondhwa(Bk), Pune.
- **Assistant Professor:** 18 September 2007 to 11 July 2008, *PES's Modern College of Engineering*, Shivajinagar, Pune.
- **Lecturer:** 14 August 2002 to 17 September 2007, *Army Institute of Technology*, Dighi Hills, Pune.

- **Customer Support Engineer:** October 1999 to September 2000, *Infotech Solution and Services*, Aurangabad.
- **Apprentice Engineer** (One Year): September 1998 to September 1999, *Telecomm Division MSEB* Aurangabad.

Patent Applied:

1. Title of Patent: Dual band MIMO antenna
Date of Filing: 12-07-2024
Application No: 423039-001
Date of Publication: 12-07-2024
2. Title of Patent: MULTIBAND MIMO ANTENNA
Date of Filing: 15-06-2023
Application No: 388415-001
Date of Issue: 23-08-2023
3. Title of Patent: Development of 8-Different shaped Element Massive MIMO antenna using DGS and Parasitic elements for Wideband application
Date of Filing: 07-06-2022
Date of Publication: 24/6/2022
Application Number: 202221032476
Applicants: Ruikar Sachin Deorao, Shrenik Sarade
4. Title of Patent: A method for vehicle monitoring system using Radio Frequency Identification (RFID) based data acquisition system
Date of Filing: 08-06-2018
Date of Publication: 31-08-2018
Application Number: 201821021439
Applicants: Ruikar Sachin Deorao, Kinake Akshay Laxman, Rahane Dipak Bhanudas, Umbarkar Anantkumar Janardan.

Research Project

1. A Research Project On 5G and IoT for Intelligent Healthcare Proposal Submitted by, Electronics Engineering Department, Submitted to ATA Freight India Private Ltd., Pune, (Rs 20 Lakh received)
2. Implementation of Autonomous driving System frame work for safe driving (Rs. 1.5 Lakh)

Membership of Professional Bodies:

- Institution of Engineering and Technology (IET) , membership number: 1100390298.
- Indian Society for Technical Education (ISTE) LM 50615 (year 2006)
- The Institution of Electronics and Telecommunication Engineers (IETE) M 218859
- IDES Institute of Doctors Engineers and Scientist (M1289) ACEEE
- Science and Engineering Institute (SCIEI) Member 20130403002
- International Association of Computer Science and Information Technology (IACSIT) (M No. 80337690)
- International Association of Engineers IAENG (M No. 118667) Dated 16 January 2012.
- Universal Association of Computer and Electronics Engineers (ID A7800700)

Additional Responsibilities:

- HOD,
- **PG Coordinator** since from April 2011 to March 2014
- **IETE ISF Coordinator** since July 2008 to March 2014.

Organized /Chairing in Conferences

1. **Publication Chair**, *IEEE International Conference on Future Technologies (ICFT 2025)* , 7th and 8th Nov 2025, Sangli
2. Technical Program Chair, International Conference on Communication, Image Processing and Computing, (ICCIPC 2025), 10 to 11 March 2025.
3. Technical Program Chair, National Conference on Communication, Image Processing and Computing, (NCIPC), 15th - 16th December 2023.

4. Program Chair, “National conference on Nanotechnology, Communication and Pattern Recognition”, SAE, PUNE, 16th to 18th March 2012.
5. Program Coordinator, “National Conference on Alternative Energy Sources”, “POWERON 2011”, at SAE on 25th March 2011.
6. Program Coordinator, “National Conference on Alternative Energy Sources”, “POWERON 2010”, at SAE on 22nd to 24th JAN 2010.

Session chair/ Program Committee Member

1. Program Committee Member and Reviewer in the Congress on Intelligent Systems held online during September 05-06, 2020 in India.
2. Session Chair’ at 3rd International Conference on Computing, Communication, Control and Automation ‘CCUBEA – 2017’, which is Technically co-sponsored by IEEE Pune Section at Pimpri Chinchwad College of Engineering, on 17th August 2017.

Organized STTP/Workshop/FDP:

1. Organised One Week short term Training Program on “Antenna Design an VLSI Design”, 30th June–4th July2025, Hybrid Mode.
2. Organised One Week Faculty Development Program on “Network Simulator and Its Applications” (14th–18thJuly2025) Online Mode
3. Organized ATAL FDP on “EMERGING TRENDS IN ELECTRIC VEHICLE”, Application No: **1691409418, from 8Jan 2023 to 13 Jan 2023.**
4. **Organizing student training program on “Artificial Intelligence and Machine learning”**, under TEQIP III by Electronics Engineering at Walchand College of Engg, Sangli from 29 July to 23 Sept 2021.
5. **Organized three day Online Webinar on “MATLAB and Simulink”** in association with Design Tech Systems Ltd., Pune, and Electronics Engineering Department, Walchand College of Engg, Sangli 16 Aug to 18 Aug 2021
6. **Organized One Week online Short term training program** on “5G and Wireless Technology: RF Front End Design”, from 10th to 14th March 2021, in association with Elmac Engg Service, Pune, Under TEQIP – III, Twining activity with Jabalpur Engineering College.
7. **Organized One Week online Short Term Training Program** On “IOT Technology Solution”, from 14 to 18 December 2020, in association with Elmac Engg Service, Pune Under TEQIP – III twining activity with Jabalpur Engineering College.
8. **Organized One week Online Webinar on “MATLAB Software”** in association with Design Tech Systems Ltd., Pune, under TEQIP III twining activity Walchand College of Engg, Sangli and Jabalpur College of Engg from 8th to 12th Dec 2020
9. **Organized three day workshop** on “IOT Based Automation”, in association with Dolphin Lab, Pune, under TEQIP III twining activity Walchand College of Engg, Sangli and Jabalpur College of Engg, from 12th OCT to 14th OCT 2019.
10. **Organized One-week faculty development program (FDP)** on “Electromagnetic, Microwave, RF and Antenna Design using Ansys HFSS Tool flow”, from 9th July to 14th July 2018, under TEQIP III in association with Entuple Technologies Pvt. Ltd. Bangalore
11. **Workshop Coordinator, two day** Saptahaant Shikshak Prashikshan on Introduction to Machine Learning organized by IIT kharagpur, on 16th to 17th December 2017.
12. **Organized Two day workshop on ANSYS HFSS on** 1st Sept to 2nd Sept 2017 at Electronics Engineering Department, at Walchand College of Engineering, Sangli.
13. **Organized Five-day Faculty Development Program on “Mechatronics : Fundamentals and hands on”**, from Feb 1-Feb 5, 2017, Jointly organized by Department of Mechanical Engineering and Electronics Engineering, Walchand College of Engineering, Sangli.
14. **Programme Coordinator for Four week AICTE approved FDP on “Use of ICT in Education for Online and Blended Learning”** Under the National Mission on Education through ICT (MHRD, Govt. of India), conducted by IIT Bombay Physical participation at Remote Centers during **14th, 15th May; 4th, 5th June; 25th and 26th June, 2016**, Walchand College of Engineering, Sangli
15. Program coordinator for a National level Two week faculty development program on “*Embedded System Design and its Application based on ARM Processor*”, from 14th October to 25th October 2013, Sinhgad Academy of Engineering, Pune

16. Program Coordinator for a National level one week STTP on “*Image Processing, pattern Recognition and Computer Vision*”, from 1st to 5th March 2013, Sinhgad Academy of Engineering, Pune
17. Program Coordinator for a National Level One Week STTP on “*Futuristic Image Processing- Research Opportunities and Challenges*”, from 12th to 16th March 2012, Sinhgad Academy of Engineering, Pune
18. Program Coordinator for a state Level One Week STTP on “*Image Processing and Application Using MATLAB*”, from 14th to 18th March 2011, at Sinhgad Academy of Engineering, Pune

Continuing Education Programmes:

1. A one week Faculty Development program on “**High Performance Computing**”, jointly organized by IT Dept , Computer Dept. and CDAC pune under the aegis of National Superconducting Mission, Govt. of India, in collaboration with Deep Learning Institute NVDIA at WCE from 15 to 19 July 2019.
2. One week FDP on “**Network Technologies for smart application**”, at WCE under TEQIP –III, from 27th Sep to 1st Oct 2018.
3. **AICTE Sponsered One week QIP FDP on “Solar Energy Harvesting” at SGGS Nanded on 27th March to 31st March 2018.**
4. **Four week AICTE approved FDP on “Use of ICT in Education for Online and Blended Learning”** Under the National Mission on Education through ICT (MHRD, Govt. of India), conducted by IIT Bombay Physical participation at Remote Centers during **14th, 15th May; 4th, 5th June; 25th and 26th June, 2016**, Walchand College of Engineering, Sangli.
5. **Two Week ISTE Main Workshop on Engineering Physics**, Under the National Mission on Education through ICT (MHRD, Govt. of India), Physical participation at Remote Centers during 08 Dec -18 Dec 2015 **Conducted by IIT Bombay, RC ID** Walchand College of Engineering, Sangli.
6. **Two Week ISTE Main Workshop on Introduction to Design of Algorithm**, Under the National Mission on Education through ICT (MHRD, Govt. of India), One week full time work to be completed online during 27th April – 30th April 2014, Physical participation at Remote Centers during 25th May to 30th May 2015., **Conducted by IIT Kharagpur, RC ID** Walchand College of Engineering, Sangli.
7. **Two Week ISTE Main Workshop on Computer Programming**, Under the National Mission on Education through ICT (MHRD, Govt. of India), One week full time work to be completed online during 11th May – 15th June 2014 (5 weeks), Physical participation at Remote Centers during 16th June – 21st June 2014, **Conducted by IIT Bombay, RC ID** Walchand College of Engineering, Sangli.
8. **Two-week ISTE workshop on Control Systems** during, Under the National Mission on Education through ICT (MHRD, Govt. of India) conducted by IIT Khargpur, **December 02-12, 2014.**
9. **Two Week ISTE Main Workshop on Cyber Security** Under the National Mission on Education through ICT (MHRD, Govt. of India), conducted by IIT Bombay, 10th July, 2014 to 20th July 2014.
10. **ISTE Approved One week STTP** on “*Design Testing Performance Evaluation & application of Microwave Antenna*”, Dept. of E&TC VIIT Pune, 18th to 22nd Dec 2012.
11. **STTP** on “*MATLAB for Signal Processing*”, SVERI’s College of Engg, Pandharpur, 26th Nov – 30th Nov 2012.
12. **ISTE approved STTP** on “*Present and Future trends in Wireless technology*” Terna Engineering College, Navi Mumbai. 17 – 21 JAN 2012.
13. **STTP** on “*ARM 9 and Embedded Linux Programming*”, MAE Alandi, PUNE, 03-07 JAN 2011.
14. **Two weeks AICTE sponsored Staff Development Program** on “*Recent Advances in Speech, Image and Video Processing*”, SGGS IET Nanded, 12-23 Dec 2011.
15. **STTP** on “*Advance in Signal Procesing & Application*”, SGGS IET Nanded, 18th to 23rd MAY 2009.

Books Published:

1. Dr. S. D. Ruikar, “MICROWAVE ENGINEERING” by Nirali Publication, ISBN : 978-81-19116-07-2, September 2023.
2. Dr. S. D. Ruikar, “FIBER OPTIC COMMUNICATION” by Nirali Publication, ISBN : 978-81-19115-41-9, March 2023.
3. Dr. S. D. Ruikar and Mrs. Roopa B. Kakkeri , “ELECTROMAGNETIC FIELD THEORY”, by Nirali Publication, ISBN : 978-93-5451-844-7, November 2022.
4. Dr. S. D. Ruikar , Dr. (Mrs.) REKHA P. LABADE, “RADIATION AND MICROWAVE THEORY”, ISBN : 978-93-5451-671-9, September 2022

5. Dr. S. D. Ruikar , “NETWORK THEORY”, by Nirali Publication, ISBN: 978-93-5451-732-7, June 2022
6. Dr. S. D. Ruikar , “NETWORK THEORY”, by Nirali Publication, ISBN: 978-93-5451-553-8, May 2022
7. Dr. S. D. Ruikar, “Electromagnetic Field Theory”, by Nirali Publication 2019, ISBN 978-93-89533-29-3.
8. Dr. S. D. Ruikar , Dr. (Mrs.) REKHA P. LABADE, “**MICROWAVE THEORY and TECHNIQUES**” **ISBN : 978-93-First Edition : December 2020.**
9. **V. M. SARDAR**, Dr. S. D. Ruikar , “**ELECTRICAL CIRCUITS**”, by Nirali Publication, **ISBN : 978-93-90437-21-4, September 2020**
10. Dr. S. D. Ruikar, “**NETWORK ANALYSIS and SYNTHESIS**”, by Nirali Publication, **ISBN : 978-93-89533-40-8, September 2019.**
11. Dr. S. D. Ruikar, “**ANTENNAS & WAVE PROPAGATION**”, by Nirali Publication, **N1117.**
12. Dr. S. D. Ruikar and Mrs. Roopa B. Kakkeri, “Control System Engineering”, by Nirali publication 2019, ISBN 978-93-89533-31-6
13. Dr. S. D. Ruikar, Dr. Rekha P. Labade, “Radiation and Microwave Technique” by Nirali Publication Pune 2018, ISBN 978-93-88293-33-4, October 2018.
14. Dr. Sachin D. Ruikar, “*Network Analysis*”, by Nirali Publication Pune, August 2014, **ISBN 978-93-88293-16-7.**
15. Dr. S. D. Ruikar, “Network Analysis and Sythesis”, by Nirali Publication Pune 2018
16. Dr. Sachin D. Ruikar, “*Electromagnetic*”, by Nirali Publication Pune, June 2017, **ISBN 978-93-5164-138-4**
17. V. M. Sardar, Dr. S. D. Ruikar, “*Electrical Circuits and Machine*”, Nirali Publication, July 2016, **ISBN 978-93-86084-10-1.**
18. Dr. S. D. Ruikar, *Control Systems*, by Nirali Publication, April 2015, **ISBN 978-93-5164-495-8.**
19. Dr. S. D. Ruikar, “*Antenna and wave propagation*”, by Nirali Publication Pune, October 2014.
20. Dr. Sachin D. Ruikar, “*Electromagnetic and Electrical Circuits*”, by Nirali Publication Pune, October 2014, **ISBN 978-93-5164-333-3.**
21. Dr. Sachin D. Ruikar, “*Network Analysis*”, by Nirali Publication Pune, August 2014, **ISBN 978-93-5164-235-0.**
22. Rekha P. Labade, Dr. Sachin Ruikar, “*Optical & Microwave Communication*”, by Nirali Publication Pune, October 2013, **ISBN 978-93-83525-90-4**
23. Dr. Saschin D. Ruikar, Mrs. Mousami V. Munoth, “*Network Analysis*”, by Nirali Publication Pune, Spetember 2013, **ISBN 978-93-83525-49-2.**
24. Dr. Saschin D. Ruikar, Mrs. Mousami V. Munoth, “*Network Theory*”, by Nirali Publication Pune, Spetember 2013, N2803.
25. Mr. S D Ruikar, Mrs. R. B. Kakkeri, “*Electromagnetics*”, by Nirali Publication Pune March 2012, **ISBN 978-93-81962-75-6.**
26. P. V. Bhat, S D Ruikar, Mrs. Mousami V. Munoth , V K Karra, “*Network Synthesis and Filter Design*”, by Nirali Publication Pune , August 2011, **ISBN 978-93-80725-58-1.**
27. S D Ruikar, P. V. Bhat, R C Jaiswal, Dr. M. Murugan, , V K Karra, R Zende, “*Wave Theory and Antenna*”, by Nirali Publication Pune March 2011, **ISBN 978-93-81237-02-1.**
28. P. V. Bhat, S D Ruikar “*Electromagnetic Waves & Radiating System*”, by Nirali Publication Pune, February 2006, N2193

Ph.D. Students Completed

1. Shrenik Suresh Sarade, “Development of wideband massive Multi-band MIMO Antenna for milimeter wave”, **FEB 2024.**
2. **CHANDRASHEKHAR ARVIND GHUGE**, Registered Number **183030129**, Research Scholar, Department of CSE for the Ph.D. thesis entitled “**VIDEO OBJECT RETRIEVAL USING QUERY-SPECIFIC DISTANCE AND EXTENDED NEAREST NEIGHBOR**” on **22nd September, 2023**

Postgraduate Theses

1. Vikas D. Patil (2012), *Wavelet Based Image Enhacement.*
2. Vaibhav V. Nalawade, (2012), *Image Inpainting Using Wavelet And Exemplar Based Technique.*
3. Pradnya P. Mirajkar (2012), *Wavelet Based Image Fusion Techniques.*
4. Sandip Kasar (2013), *Image Demosaicing By Local Directional Interpolation And Nonlocal Adaptive Thresholding.*

5. Raut Vrushali Nilkanthrao (2013), *Image Quality Improvement In CT & MRI*.
6. Wadhavane Tushar Dinkar (2013), *Superresolution Via Coupled Constraint*.
7. Kabade Rohit Shrikant (2013), *Segmentation of Brain Tumor and its area Calculation*
8. Hulle Rohit Rajiv (2013), *Facial Expression Recognition Using PCA*.
9. Shinde Anagha Abhijeet (2013), *Multialgorithmic Face Authentication System*.
10. Kemalkar Aniket Kishor (2013), *No Reference Image Blur Metric And Robust Deblurring*
11. Ms. Bhokare Rajashree R (2013), *Multispectral Palm Image Fusion*.
12. Ms. Geetanjali Verma, *Image Quality Improvement by Multi-Scale Dictionary Method(2013)*.
13. Manoj Gagdamwar, “ *High Speed End to End data transmission through wireless; 2016*
14. Bhimrao Jadhav, *Embedded System for impedance measurement of PZT material, 2016*.
15. Mr. Anish Nitin Alwekar, *Restaurant Ordering Billing and Database Monitoring System, 2016*.
16. Ashiwini Patil,, *NXOpen Platform Enhancement for Python Autotest Framework, 2017*
17. *2017 Abhijeet Shinde*
18. Rohit Shrikhande, *Design and implementation of decomposition framework for Image de noising algorithm, 2018*.
19. Utkarsha Patil, *Charger design for fast charging of Lead acid battery 2018*.
20. Milind Khanderao, *Character Segmentation and Recognition of Indian Devanagari Script, 2019*
21. Smith Bhowate , *Gesture Recognition for Deaf and Dumb People, 2019*.
22. Sadre Vinayak, *Human Identification using Finger vein Image, 2019*
23. Priyanka Patil, *Poppy Humanoid Robot, 2020*.
24. Abdul Rashid, *Autonomous Grasping with Anthropomorphic Soft Hands, 2020*
25. Ameya Joshi, “*A region based object recognition by color segmentation through Simplified pulse coupled neural network*”, 2021.
26. Akshay Balaji Chitte, “*Roadster Bidirectional EV vehicle Smart power management with Thermal control system*”, 2022.
27. Pranali Vasudev, *Hospital Management System, 2023*.
28. Shubham Kadam, *Designing Flight Controller Of Quadcopter Using Stm32 Microcontroller 2024*.
29. Vadgave Amruta Ajitkumar, *Hand Gesture Recognition Using Image Processing, 2025*.
30. Vadgave Anant Ajitkumar,

Achievement:

1. **online course on “Remote Sensing & GIS Technology and Applications for University Teachers & Government Officials” which was conducted by Indian Institute of Remote Sensing (IIRS),ISRO Dehradun, during 13-06-2020 to 01-07-2020.**
2. **TEQIP online certification, two week course on Digital Transformation in teaching learning process, from 14 Feb to 6 March 2020.**
3. **Fifteenth IIRS Outreach Certificate program, sponsored by National Natural Resource Management System(NNRMS), Basic Course on “Remote Sensing, Geographical Information System & Global Navigation Satellite System”, conducted by Indian Institute of Remote Sensing and Indian Space Research Organization, Department of Space, from 10 August 2015 to 27 November 2015.**
4. **Purdue university (US) online course completed through Purdue NeXt- Fundamentals of Nanoelectronics: Basic Concepts - S1 on March 2015.**
5. **Mission10X certificate** in Teaching and learning at 11 MAY 2009 by WIPRO.
6. **BEST Paper Presentation award at** National conference on Vision, Embedded & Robotics, 1-5 March 2004 by Sensor Technology, Gwalior.

Resource Person:

1. Resource Person for **One Week Online ISTE Approved STTP on “Recent Trends in AI & ML for Signal Processing Applications and Research using MATLAB”**, at Dr. D. Y. Patil Institute of Technology, Pimpri, Pune on topic Signal processing algorithms based on Artificial Intelligence (AI) techniques and Machine Learning (ML) principles dated 08 Jan 2026.
2. Guest Lecture delivered on Computer Vision at DKTE, Ichalkaranji on 3-10-2025.
3. Resource Person for a state level three-day Faculty Orientation program on National Education Policy NEP 2020 at Dnyanashree Institute of Engineering and Technology on 24 Jan 2024.
4. **Guest lecture on NBA Process at SBGI Miraj 30 June 2022**
5. **Guest lecture on, “Optical link Design”**, at Govt College of Engineering, Karad on 30 Sep 2019.
6. **Resource person for topic “Image Processing”** at ISTE approved STTP on Recent Trends in Image Processing, at Department of Electronics & Telecommunication Engineering, Bharati Vidyapeeth college of Engineering, Kolhapur.
7. **Guest Lecture delivered** on Electromagnetic Engineering, at AISSMS Institute of Information Technology on 02 APRIL 2012.
8. **Guest Lecture delivered** on Electromagnetic Engineering, at Pimpri Chinchwad College of Engineering in 16th APRIL 2011.
9. **Guest Lecture delivered** on Electromagnetic Engineering, at Dhole Patil College of Engineering in 11th APRIL 2010.

Book Chapter:

1. Sarade, S.S. and Ruikar, S.D. (2024). Compact Wideband 6-GHz Different Radiating Elements MIMO Antenna with Dual-Band for the 5G/WLAN/C-Band Application. In Digital Convergence in Antenna Designs (eds P. Srividya, S. Ramya, A. Peram and A. Singh). <https://doi.org/10.1002/9781119879923.ch3>
2. Sarade, S.S., Ruikar, S.D. (2022). Development of Dissimilar-Shaped 8-Patch Massive MIMO Antenna for Various Application with Enhancement of Bandwidth and ECC. In: El Ghzaoui, M., Das, S., Lenka, T.R., Biswas, A. (eds) Terahertz Wireless Communication Components and System Technologies. Springer, Singapore. https://doi.org/10.1007/978-981-16-9182-9_13.
3. Shrenik Suresh Sarade, S. D. Ruikar, (2022), “Design and Analysis of Different Rectangular shaped 4-element Wide Band Multi-Band MIMO Antenna with Enhancement of Correlation coefficient”, [Printed Antennas](#), CRC Press, eBook ISBN 9781003347057, Malik, P.K., Naim, A., & Singh, R. (Eds.). (2022). Printed Antennas: Design and Challenges (1st ed.). CRC Press. <https://doi.org/10.1201/9781003347057> .
4. Sarade, S.S., Ruikar, S.D., Compact Wideband 6-GHz Different Radiating Elements MIMO Antenna with Dual-Band for the 5G/ WLAN/C-Band Application, Digital Convergence in Antenna Designs: Applications for Real-Time Solutions, 2024, pp. 57–86.
5. ADAS vision system with video super resolution: Need and scope Daithankar, M.V., Ruikar, S.D. Autonomous Driving and Advanced Driver-Assistance Systems (ADAS): Applications, Development, Legal Issues, and Testing, 2021, pp. 135–147

Journal Publication:

1. Amruta Ajitkumar Vadgave, Dr. Sachin D. Ruikar, A Review on Hand Gesture Recognition Using Image Processing, Journal of Harbin Engineering University, ISSN: 1006-7043, Vol 46 , No. 7, July 2025
2. Shubham Ganpatrao Kadam, Sachin Ruikar, DESIGNING FLIGHT CONTROLLER OF QUADCOPTER USING STM32 MICROCONTROLLER, International Journal of Innovative Research in Technology, , August 2024 | Volume: 11 | Issue: 3 | PageNo: 1163-1168.
3. Smith Bhowate, Sachin Ruikar, Ravindra Rathod, Anantkumar Umbarkar, Gesture Recognition for Deaf and Dumb People, INDIAN JOURNAL OF TECHNICAL EDUCATION, Volume 46 I Special Issue 1 December 2023.

4. Vaishali G. Waghmode¹, Dr. S. D. Ruikar², Dr M. M. Patil, "IOT Based Epilepsy and Paralyzed Patient Support System", GRADIVA REVIEW JOURNAL, VOLUME 9 ISSUE 8 2023, ISSN NO :363-8057, PAGE NO: 129-138.
5. Pranali Pramod Vasudev Dr.S. D. Ruikar. , "HOSPITAL MANAGEMENT SYSTEM", GRADIVA REVIEW JOURNAL, VOLUME 9 ISSUE 8 2023, ISSN NO : 0363-8057, page No 165-176.
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