

Faculty Profile

- **Faculty Name** : Dr. Shrenik Suresh Sarade
- **Designation** : Associate Professor
- **Department** : AIDS/AIML Engineering
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• Educational Qualification

Sr. No.	Degree	University	Class
1	Ph.D. (Electronics Engineering)	Shivaji University, Kolhapur	Awarded
2	M. E. – Electronics Engineering	Shivaji University, Kolhapur	First Class
3	B.E.- Electronics Engineering	Shivaji University, Kolhapur	First Class

• Professional experience:-

Total experience in years:-18

Teaching: - 15

Industrial: -00

Research: -03

Sr. No.	Organization	Post	Period
1	YSPM, Satara	Assistant Professor	12/6/2023 to 31/05/2024
2	JSPM, Pune	Assistant Professor	8-8-2022 To 31/05/2023
3	WCE, Sangli	Research Scholar (QIP)	15-7-2019 to 15-7-2022
4	AITRC, Vita	Assistant Professor	01-7-2014 to 15-7-2022
5	RIT, Sakharale	Assistant Professor	21-08-2008 to 31-05-2013

➤ Subject Taught:-

Undergraduate Subjects			
1	Digital Electronics	2	C Programming
3	Electromagnetic field theory	4	Microprocessor
5	Computer Organization and Architecture	6	Microcontroller

- **Project Work at U.G.:-** Flight data recording using smart card.
- **Project Work at P.G.:-** Speech Compression & Decompression by using ADPCM With ARM Controller.
- **Research Area of Interest:-** MIMO Antenna Design.
- **Book Published :-** 04

➤ **Paper Published in National & International Journal:-**

Sl.	Title	Name of Journal	Type* (NJ/IJ)	Date	ISSN No.
1	Speech compression & Decompression system using ADPCM with ARM Controller	National Conference on innovative trends for technology development, Technocon-2012	NC		
2	Hardware Implementation of Speech compression system using LPC2148	National Conference on Advanced technologies , NTSACT-2012	NC		ISBN 978-1-4675-1444-6
3	Voice Compression & Decompression system Using ADSP Controller	National Conference on Advances in communication and Computing, NCACC (World Journal of Science and Technology 2012)	NC		ISSN: 2231-2587
4	Temperature monitoring & controlling of industrial machine by wireless network with microcontroller	National Conference on Advancement in Engineering, NCRAE12	NC		ISBN:978-93-82062-39-4 (Volume-4)
5	Wireless Sensor Network For Temperature monitoring	National Conference on Advancement in Engineering, NCRAE12	NC		ISBN:978-93-82062-39-4 (Volume-2)
6	WIRELESS TEMPERATURE MONITORING SYSTEM USING WIRELESS SENSOR NETWORKS	International Journal of Advanced Research in Electronics and Communication Engineering (IJARECE)	IC		Volume 1, Issue 4, October 2012 ISSN: 2278 – 909X
7	ZIGBEE BASED SENSOR NETWORKS FOR TEMPERATURE MONITORING AND CONTROLLING	<i>IOSR Journal of Electronics and Communication Engineering (IOSR-JECE)</i>	IC		<i>ISSN: 2278-2834,</i> <i>ISBN: 2278-8735,</i>
8	Temperature Monitoring and controlling of industrial machine by using Zig-Bee with Microcontroller	International Journal of Applied Engineering Research	IC		ISSN 0973-4562 Vol.7 No.11 (2012)
9	Design of Microstrip Patch Antenna for 5G	2 nd International Conference on “Advanced Technologies for Societal Application”	IC		In Springer

	Application				
10	Development of Multiband MIMO Antenna with DGS	1 st International Conference on “Advanced communication and Computational Technology”	IC		In Springer Singapore
11	Development of Multiband MIMO Antenna with DGS: Review	International Conference on “Computing and Network Communications(CoCoNet”19)	IC		Procedia Computer Science Volume 171, 2020,Elsevier
12	A Different Shaped Radiating Element Wide Band Multi-Band Massive MIMO Antenna for 5G/ WLAN applications with Enhanced Correlation Coefficient	GC-RDCT 2021	IC		IOP Conf. Series: Materials Science and Engineering
13	Development of Different shaped 10-elements Massive MIMO Antenna for Millimeter-Wave applications using RDGS	13th India- Japan Science and Technology Conclave: International Conference on Frontier Areas of Science & Technology, 2023 ICFAST- 2023	IC		
14	Voice Compression & Decompression system Using ADSP Controller	World Journal of Science & Technology, 2012	IJ		ISSN: 2231-2587
15	WIRELESS TEMPERATURE MONITORING SYSTEM USING WIRELESS SENSOR NETWORKS	International Journal of Advanced Research in Electronics and Communication Engineering (IJARECE)	IJ		Volume 1, Issue 4, October 2012 ISSN: 2278 – 909X
16	ZIGBEE BASED SENSOR NETWORKS FOR TEMPERATURE MONITORING AND CONTROLLING	<i>IOSR Journal of Electronics and Communication Engineering (IOSR-JECE)</i>	IJ		<i>ISSN: 2278-2834, ISBN: 2278-8735,</i>
17	Temperature Monitoring and controlling of industrial machine by using Zig-Bee with Microcontroller	International Journal of Applied Engineering Research	IJ		ISSN 0973-4562 Vol.7 No.11 (2012)
18	PATIENT MONITORING AND ALERTING SYSTEM	International Research Journal of Engineering and Technology	IJ		e-ISSN: 2395 - 0056, p-ISSN:

	BY USING GSM	(IRJET)			2395-0072
19	Review of Railway Track Fault Finding System	International Journal for Research in Applied Science & Engineering Technology (IJRASET)	IJ		Volume 3 Issue X, October 2015 IC Value: 13.98 ISSN: 2321-9653
20	Automatic Detection of Diesels on Grape Field	International Journal for Research in Applied Science & Engineering Technology (IJRASET)	IJ		Volume 4 Issue II, February 2016, IC Value: 13.98 ISSN: 2321-9653
21	Analog Data Signal Compression by using Differential Pulse Code Modulation with Microcontroller	International Journal for Research in Applied Science & Engineering Technology (IJRASET)	IJ		Volume 4 Issue XI, November 2016 IC Value: 13.98 ISSN: 2321-9653
22	Review of A New Approach for Hybrid Technology Monitoring and Logger System for Electricity	International Journal for Research in Applied Science & Engineering Technology (IJRASET)	IJ		Volume 5 Issue I, January 2017 IC Value: 45.98 ISSN: 2321-9653
23	Review of Kisan Krushi Marketing using Wireless Technology	International Journal for Research in Applied Science & Engineering Technology (IJRASET)	IJ		Volume 5 Issue III, March 2017 IC Value: 45.98 ISSN: 2321-9653
24	Smart Energy Meter By using Arduino Based System	Journal of Embedded Systems and Processing (MAT)	NJ		Volume 3 Issue 2 2518-9817
25	Analog Signal Compression & Decompression by using ADSP Processor	Journal of Signal Processing (MAT)	NJ		Volume 4 Issue 1 2475-9635
26	Speech Compression by using Adaptive Differential Pulse Code Modulation (ADPCM) technique With Microcontroller	Journal of Electronics and Communication Systems (MAT)	NJ		Volume 2 Issue 3 2129-8294
27	Monitoring and Logger System for Electricity with Hybrid Technology	Advancement and Research in Instrumentation Engineering (HRBP)	NJ		Volume 1 Issue 2
28	Review of One Touch System for Women Safety	International Journal for Research in Applied Science & Engineering Technology (IJRASET)	IJ		ISSN: 2321-9653

29	Review of Glass Wall Cleaning Robot Using Wireless Technology	International Journal for Research in Applied Science & Engineering Technology (IJRASET)	IJ		ISSN: 2321-9653
30	Control System for BLDC Motor using Back EMF Method	International Journal for Research in Applied Science & Engineering Technology (IJRASET)	IJ		ISSN: 2321-9653
31	Development of Wide bandwidth Massive Eight Dissimilar Radiating element Multiband MIMO Antenna for mm-Wave application	Engineering, Technology and Applied Science Research (ESTAR) journal	IJ		Web of science eISSN:1792-8036 pISSN:2241-4487
32	Development of Two UWB Multiband MIMO antennas with Enhanced Isolation and Cross correlation	Engineering, Technology and Applied Science Research (ESTAR) journal	IJ		Web of science eISSN:1792-8036 pISSN:2241-4487
33	IOT BASED HEALTH MONITORING SYSTEM	Journal of Control and Instrumentation Engineering	IJ		Volume 9 Issue 2 (2023)

* NJ- National Journal

IJ- International Journal

*IC- international conference

- **No. of Project Guided at U.G. Level:-** 10
- **No. of Project Guided at P.G. Level:-** 04
- **STTP/FDP/Workshops/Attended/Participated:-** 31

Sr. No.	Organization	Topic	Day	Period
1	RIT, Sakharale (STTP)	Recent trends in Electrical Engineering	05	2 nd to 6 th May 2011
2	IIT, Bombay	Effective writing of conference paper	02	18 th Feb. and 19 th Feb. 2012
3	IIT, Bombay	Akash for Education	02	10 th & 11 th November, 2012
4	SITCOE, Yadav (ISTE)	Advanced Trends in PLC-Automation	05	30 th November to 4 th December 2015
5	PVPIT, Budhagaon	Embedded system in Instrumentation	05	19 th to 23 rd December, 2016
6	ADCET, Ashta	Arduino & Its Applications for Electrical & Electronics Engineering	05	11 th to 15 th December, 2017
7	WCE, Sangli	Electromagnetics, Microwave, RF and Antenna Design using Ansys HFSS Tool flow	06	9 th to 14 th July, 2018
8	WCE, Sangli	Recent Trends in Electronics Communication Engineering	01	6 th October, 2018

9	WCE, Sangli	RF & Microwave Components: Design Challenges & Their Solutions"	05	14-18 October, 2019
10	GCOE, Karad (QIP-III)	Machine Learning and Deep Learning Applications in Engineering and Science (MLDLAES -2020)	05	16 th May-20 th May 2020
11	VRSCOE, Vijayawada, Andhra Pradesh.	"Trends and Challenges in Design and Implementation of Reconfigurable Antennas for Increased Spectrum Access in Cognitive Radio Communication",	06	20 th -25 th July 2020
12	WCE, Sangli (TEQIP-III)	Pedagogical Techniques in Electronics and Electrical Engineering	05	10 th to 14 th August 2020
13	J.C. Bose University of Science & Technology, YMCA Faridabad (ATAL)	Digital Circuit Implementation Using Zynq FPGA IC	05	2020-9-16 to 2020-9-20
14	Sri Krishna College of Technology (ATAL)	Biomedical Instrumentation & IoT	05	2020-9-21 to 2020-9-25
15	National Institute of Technical Teachers Training and Research (ATAL)	Flexible and Wearable Antennas: Recent Advancements, Fabrication Techniques and Applications	05	2020-10-12 to 2020-10-16
16	National Institute of Technology Warangal (ATAL)	Productivity enhancement	05	2020-11-3 to 2020-11-7
17	SARDAR PATEL COLLEGE OF ENGINEERING (ATAL)	Micro-electromechanical Systems	05	2020-11-23 to 2020-11-27
18	IIIT Dharwad (ATAL)	Research Methodology	05	2020-12-7 to 2020-12-11
19	WALCHAND COLLEGE OF ENGINEERING, SANGLI	IOT Technology Solution	05	14 th to 18 th December, 2020
20	Bharati Vidyapeeths Poona College of Pharmacy, Erandwane, Pune (ATAL),	Leadership & Excellence	05	2021-1-11 to 2021-1-15
21	NRI Institute Of Technology (ATAL)	Modern Pedagogical Techniques for Effective Teaching & Learning	05	2021-2-8 to 2021-2-12
22	WCE, SANGLI	5G and Wireless Technology: RF Front End Design	05	10 th to 14 th March 2021
23	G H PATEL COLLEGE OF ENGINEERING & TECHNOLOGY	Wireless Embedded Systems And Sensor Networks		01/06/2021 to 05/06/2021
24	SARANATHAN COLLEGE OF ENGINEERING	COGNITIVE RADIO, ANTENNAS & MILLIMETRE WAVE COMMUNICATION	05	07/06/2021 to 11/06/2021
25	Jerusalem College of Engineering, Chennai	PATENT DRAFTING AND FILING	05	2021-06-14 to 2021-06-18

26	Atal Bihari Vajpayee IIITM (ATAL)	Wireless Communication Technologies	05	21/06/2021 to 25/06/2021
27	Graphic Era (Deemed to be University) (ATAL)	Sensors fabrication and its applications in IoT	05	02/07/2021 to 06/07/2021
28	GEC, Gudlavalleru, Krishna District, A.P	Millimeter Wave frequencies	08	17 th August,2021 to 24 th August, 2021
29	Lords Institute of Engineering and Technology	Recent Trends in signal and Image Processing with hands-on training using MATLAB	12	19-9-2022 to 30-9-2022
30	TSSM, BSCOER, Narhe, Pune	"Implementing IoT & Machine Learning Applications on Raspberry Pi"	05	3 rd – 7 th July 2023.
31	YTC, Satara	Recent trends in Teaching and Learning pedagogy	05	16 th – 20 th January,2024

- **Special Achievements:-** 1) Best Performance award at RIT, Sakharale.
2) I am Published 2 books as a Writer.
3) Seven NPTEL Course with Certification.
4) Worked as a Reviewer for conference and journal.
5) I have 3 patents.
- **Central Responsibilities:-** Nil
- **Departmental Responsibilities:-** HOD
- **Other Experience/Responsibilities If Any :-** Worked as a Controller of Examiner at AITRC, Vita and YTC, Satara
- **Social Contribution If Any: -** Worked as a NSS Coordinator.
- **Professional Membership If Any:-** IETE, ISTE, IRED, ISRD, IAENG