

Faculty Profile

- **Faculty Name** : Sandhya Vaibhav Sagavkar
- **Designation** : Assistant Professor
- **Department** : Electronics & Telecommunication Engineering
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• Educational Qualification

Sl.	Degree	University	Class
1	B.E.-Electronics & Telecommunication Engineering	Shivaji University, Kolhapur	First
2	M.E.- Electronics & Telecommunication Engineering	Shivaji University, Kolhapur	First
3	Ph.D(Scholar) - Electronics & Telecommunication Engineering	DOT, Shivaji University, Kolhapur	-

• Professional experience:-

• Total experience in years:-19

Teaching:- 18

Industrial:-Nil

Research:-Nil

Sl.	Organization	Post	Period
1	Ashokrao Mane Group of Institutions, Vathar	Assistant Professor	16 June 2013 to Till Date
2	KIT's College of Engg., Kolhapur	Assistant Professor	Jan 2013 to April 2013
3	KIT's College of Engg., Kolhapur	Assistant Professor	July 2007 to May 2012
4	Pad.Vasantdada Patil Institute of Technology, Budhagaon	Lecturer	Feb 2006 to April 2007

➤ Subject Taught:-

Undergraduate Subjects			
1	Digital Signal Processing	2	Signals and Systems
3	Microwave Engineering	4	MATLAB Programming
Postgraduate Subjects			
1	Advanced Digital Signal Processing	2	Network Security and Cryptography

- **Project Work at U.G.:-**Line following Robot
- **Project Work at P.G.:-**Speech Enhancement for Nonstationary Noise Environment
- **Research Area of Interest:-** Signal Processing
- **Paper Presented in National & International Conference:-**

Sl.	Title	Name of Conference & Institute	Type* (NC/IC)	Date
1.	Optimization of emotion recognition system using facial expressions	International Conference on Integrated Research and Sustainable Development at Ashokrao Mane Group of Institutions, Vathar	IC	31st Oct 2025
2.	ESP32-Based Bluetooth Mesh Sensor Network for Data Collection and Command Control	International Conference on Integrated Research and Sustainable Development at Ashokrao Mane Group of Institutions, Vathar	IC	31st Oct 2025
3.	AI-Based Integrated Traffic Violation Detection and Smart Traffic Management System.	International Conference on Integrated Research and Sustainable Development at Ashokrao Mane Group of Institutions, Vathar	IC	31st Oct 2025
4.	Machine Learning Based Boiler Health Monitoring System Using IoT	International Conference on Integrated Research and Sustainable Development at Ashokrao Mane Group of Institutions, Vathar	IC	31st Oct 2025
5.	Leveraging Bi-LSTM and Attention Mechanism for Symptom-Based Disease Forecasting	International Conference on Integrated Research and Sustainable Development at Ashokrao Mane Group of Institutions, Vathar	IC	31st Oct 2025
6.	Speech Enhancement for Nonstationary Noise Environment	Emerging Trends in Engineering & Technology, at Bharati Vidyapeeth's College of Engineering, Kolhapur, PageNo.129-132.	NC	Sep.30 , 2011.

*NC-National Conference

IC-International Conference

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

Sl.	Title	Name of Journal	Type* (NJ/IJ)	Date	ISSN No.
1.	IOT Based Smart Machine Monitoring System	International Journal For Multidisciplinary Research	IJ	June 2026	2582-2160
2.	Multilayer Wavelet-Based Audio Steganography Scheme : A Review	International Journal of Research Publication and Reviews	IJ	Nov 2025	2582-7421
3.	Advancements and Challenges in Bluetooth and ZigBee-Based Wireless Sensor Networks: A Comprehensive Review	International Journal of Research Publication and Reviews	IJ	Oct 2024	2582-7421
4.	A Wearable Health System towards Monitoring COVID-19 and Chronic Diseases	United International Journal of Engineering and Sciences(UIJES)	IJ	2022	2582-5887

5.	Review on a Wearable Health System towards Monitoring COVID-19 and Chronic Diseases	International Journal of Innovative Research in Engineering	IJ	August 2022	2582-8746
6.	Wireless Voice Controlled Robot	International Research Journal of Engineering & Technology(IRJET)	IJ	08-08-2022	2395-0056
7.	Review on Wireless Voice Controlled Robot	International Research Journal of Engineering & Technology(IRJET)	IJ	01-07-2022	2395-0056
8.	Performance Analysis of LMS Based Active Noise Cancellation Algorithms for Seminar Hall	International Research Journal of Engineering and Technology (IRJET)	IJ	Sep 2021	e-ISSN: 2395-0056, p-ISSN: 2395-0072
9.	Review Paper on Performance Analysis of LMS Based Active Noise Cancellation Algorithms	International Research Journal of Engineering and Technology (IRJET)	IJ	Aug 2021	e-ISSN: 2395-0056,p-ISSN: 2395-0072
10.	Speech Enhancement for Nonstationary Noise Environment	Signal & Image Processing: An International Journal (SIPIJ) Vol.2, No.4.	IJ	December 2011	0976-710X (online), 2229-3922 (print)

*NJ-National Journal

IJ-International Journal

- **No. of Project Guided at U.G. Level:-** 29
- **No. of Project Guided at P.G. Level:-** 05
- **No. of Certified Courses completed:-** 06
- **Expert Lectures Delivered as a Resource Person:-**

Sl.	Name of STTP/FDP/workshop/Conference	Institute	Date
1	Fundamentals of MATLAB	Department of E&Tc Engg., AMGOI,Vathar	2022-23
2	Technical computing using MATLAB(TechniComp-2018)	AMGOI, Vathar	18-22 June,2018

- **STTP/FDP/Workshops/Attended/Participated:-**

Sl.	Name of STTP/FDP/workshop	Institute	Date
1.	ISTE approved FDP 'Recent Advancement in IoT-Industry Perspective'	Ashokrao Mane Group of Institutions, Vathar.	19-23 rd Jan 2026
2.	One day workshop on "NEP-2020:Guidelines for Syllabus Design"	Ashokrao Mane Group of Institutions, Vathar.	3 rd Jan 2026
3.	45th GISFI Standardization Series Meeting and International Workshop on Digitisation : Bridging the Present and Future	Ashokrao Mane Group of Institutions, Vathar.	30 th Oct-1 st Nov 2025
4.	ATAL FDP on 'Next-Gen Manufacturing: Embracing Industry 4.0'	Ashokrao Mane Group of Institutions, Vathar.	25-30 th Aug 2025

5.	Training on LATEX	Spoken Tutorial Project, IIT Bombay	11/01/2025
6.	FDP on 'Principles of outcome based education'	Outcome Based Education software	28/01/2025
7.	FDP on 'Advanced machine Learning using Python with Green Technology' by Skills4Future,Edunet Foundation	Ashokrao Mane Group of Institutions, Vathar.	18/12/2024 to 21/12/2024
8.	MATLAB EXPO-2024 Event	MathWorks	13 to 14/11/2024
9.	Completion of session on Project-Based Learning with Low-Cost Hardware Using MATLAB Online	MathWorks	13 to 14/11/2024
10.	Advanced Industrial Automation with PLC and IIOT	AMGOI	3rd Jun-7th Jun, 2024
11.	FDP on 'Python for Data Science'	NPTEL-AICTE	Jan-April 2024
12.	FDP on 'Deep Learning'	NPTEL-AICTE	Jan-April 2024
13.	FDP on "Ancient and Computational Mathematics"	AMGOI	02/20/2024
14.	Two days national level online seminar on "Use of ICT tool for quality enhancement of higher education Institutes; Post COVID situation"	IQAC, Sanjeevan Engineering & Technology Institute,Panhala,Sponsored by NAAC , Bangalore.	9/12/2022 To 10/12/2022
15.	Machine Learning & it's Applications	Kolhapur Institute of Technology's college of Engineering, Kolhapur	05-01-2021 to 15-01-2021
16.	Artificial Intelligence & Machine learning	DKTE Society's Textile & Engineering Institute Ichalkaranji	19-12-2020 to 24-12-2020
17.	"Optimization Techniques and Awareness on Research", AICTE approved	Ashokrao Mane Group of Institutions, Faculty of Engineering, Vathar.	30 th Dec.,2019 to 03 rd Jan.,2020
18.	"Neuro Linguistic Programming (NLP)for teachers" under SUK-LEAD college Activity.	Ashokrao Mane Group of Institutions, Faculty of Engineering, Vathar.	24 th Mar., 2018
19.	"Research: What, Why and How?",under SUK-LEAD college Activity.	Ashokrao Mane Group of Institutions, Faculty of Engineering, Vathar.	10 th Mar 2018
20.	"Formulation & Assessment PEOs, Pos & Cos-for NBA Accreditation Process(June 2015 format)",under SUK-LEAD college activity.	Sanjay Ghodawat Group of Institutions, Atigre	23 rd & 24 th Mar.,2017
21.	"Emerging Research Areas in Electronics & Telecommunication Engineering", ISTE approved.	Sanjay Ghodawat Group of Institutions, Atigre	19 th to 24 th Dec.2016

22.	“LabVIEW myDAQ, MyRIO Applications”, organized by LabVIEW Academy in association with National Instrument.	Ashokrao Mane Group of Institutions, Faculty of Engineering, Vathar.	12 th Oct.,2016
23.	Attended One week STTP on “Preparation of Certified LabVIEW Associate Developer (CLAD)Examination”	Ashokrao Mane Group of Institutions, Faculty of Engineering, Vathar.	18 th to 23 rd March, 2016
24.	“Embedded System Design& Implementation using ARDUINO” Sponsored by ISTE.	Ashokrao Mane Group of Institutions, Faculty of Engineering, Vathar.	11 th to 16 th Jan., 2016
25.	“Accreditation By NBA-June 2015 Format”, under SUK-LEAD college activity .	Ashokrao Mane Group of Institutions, Faculty of Engineering, Vathar.	8 th Nov., 2015
26.	“Role of teacher in knowledge Management & evaluation Process of NBA Accreditation“	Ashokrao Mane Group of Institutions, Faculty of Engineering, Vathar.	2 nd Feb.,2014
27.	“Signals & Systems” conducted By IIT Kharagpur.	TKIET, Warananagar.	2 nd to 12 th Jan., 2014

➤ **Programs Organized:-**

Sl.	Name of Program	Institute	Date
28.	Two-day workshop on “MATLAB for Real-World Applications: From Coding to Hardware Integration”	Ashokrao Mane Group of Institutions, Vathar.	7th & 8th May, 2026
29.	Guest Lecture on “Gender Equality” on the occasion of International Women’s Day	Ashokrao Mane Group of Institutions, Vathar.	13 th March 2026
30.	Two-days workshop on “Introduction to AI with MATLAB “	Ashokrao Mane Group of Institutions, Vathar.	12th -13th August 2025
31.	Lecture series – “Navsanvad 2025” day 1 Topic “Contribution of Women in History and Today’s Challenges”	Ashokrao Mane Group of Institutions, Vathar.	22 th September, 2025
32.	Theme Competition on "Celebrating Women Legends: Strength, Inspiration, and Change."	Ashokrao Mane Group of Institutions, Vathar.	7th March, 2025
33.	Seminar on "Empowering Women through Safety"	Ashokrao Mane Group of Institutions, Vathar.	78th March, 2025
34.	Getting Started with MATLAB & its Engineering Applications	Department of E&Tc Engg., AMGOI,Vathar	09/04/2025
35.	Seminar on ‘Industry 4.0 to 5.0 - Challenges and Opportunities’	Department of E&Tc Engg., AMGOI,Vathar	04/26/2024
36.	Lead College Activity-ISTE Students Convention Programme	AMGOI,Vathar	2018-19

- **Patents:** Design Patents-03
- **Book Published:-** Nil
- **Departmental Responsibilities:-** PG Coordinator, Academic coordinator, NAAC Coordinator
- **Other Experience/Responsibilities If Any:-** Presiding Officer-Internal Committee
- **Social Contribution If Any:-** Nil
- **Professional Affiliation:-** Nil
- **Professional Membership If Any:-**
 1. Life member of ISTE (LM-109057)