



Rayat Shikshan Sanstha's
Yashavantrao Chavan Institute of Science, Satara (Autonomous)
Lead College of Karmaveer Bhaurao Patil University, Satara

Faculty Profile

❖ **General information**

Name	: Mr. Sunil Sundarrao Barkade
Designation	: Assistant Professor
Department	: Electronics
Educational Qualification	: M.Sc., SET. (Electronics)
Date of Appointment	: 07/12/2015
Teaching Experience	: UG: 8 years PG: 5 years
Research Experience	: 04 years
Research Area	: Embedded System, Piezoelectric Devices, Antenna Design



❖ **Educational Qualification Details (undergraduate onwards)**

Sr. No.	College/University	Degree	Subjects	Year	Class/ Percentage
1	Savitribai Phule Pune University	PhD	Electronic Science		Pursuing
2	Savitribai Phule Pune University	SET	Electronic Science	2017	Qualified
3	Solapur University.	M.Sc.	Electronics	2015	63.64%
4	Solapur University.	B.Sc.	Electronics	2013	54.28%

❖ **Academic and Administrative Responsibilities**

Sr. No.	Position	Organization	Date/Duration
1	Coordinator	COE-AIAD, Department of Electronics	From Dec 2022

❖ **Worked as Editor/Reviewer to Journals/Books/Proceedings etc.**

Sr. No.	Name of the Journal/Book/Proceedings	ISSN/ ISBN No.	Assignment (Editor/Reviewer)	Publisher	Publication year
1	Oriental Journal of Computer Science and Technology	0974-6471	Reviewer	Oriental Scientific Publishing Company	2021

❖ **Research Projects (Ongoing/Completed)**

Sr. No.	Title of Project	Duration	Amount Sanctioned	Agency	Status (Ongoing/)
---------	------------------	----------	-------------------	--------	-------------------

			(in Lakhs)		Completed)
Minor Research Project					
1	Smart Farming : IOT based sensors agriculture stick for live soil moisture and temperature monitoring	1 Year	0.13	YCIS, Satara	Completed
2	Piezoelectric Energy Harvesting From Low Frequency Applications, Reference No.: RSS/YCIS/RAC/06	1 Year	0.30	YCIS Satara	completed
3.	Detection of Banana Spoilage using Artificial Intelligence	2 Year	0.5	Centre of Excellence in AI, YCIS Satara	Ongoing

❖ Details of Research Publications

A) Patent

Sr. No.	Title	Patent No.	Indian/US/Any other	Granting date
1	AN AUDIO ALERT SECURITYDEVICE	202021054347	Indian	Published
2	A system & Method based on Block Chain technology for developing efficient education management systems	202311007292	Indian	Published
3.	Machine Learning based Stress Detection Device	393708-001	Indian	Granted

B) Books/Book Chapters

Sr. No.	Title	Publisher	Year of Publication	ISBN No	Type (Reference/Text)
1	An Intelligent Agricultural Manipulations using IoT	Materials for Optoelectronic Applications by Statperson	2023	978-1-387-42404-7	Reference

C) Datasets Submission

D) Research papers:

Sr. No	Title of paper	Journal/proceeding details (Name, volume, page no, year of publication etc.)	ISSN No	Listed in Scopus/ Web of Science/ UGC Care	Impact factor (If any)
1	Applicative Aspects of Piezoelectric Sensors for	JECET; September 2020- November 2020; Sec. C; Vol.9.	2278-		

	Power Generation S. S. Barkade* , G. S. Nhivekar, J. A. Wagh and B. T. Jadhav	No.4, 663-667.	179X		1.799
2	Fuzzy Logic Based Contactless Risk Dedication and Prevention System to prevent COVID-19 Suspect at Entrance Ganesh Nhivekar*, Sunil Barkade , Jarichandra Wagh, Bharat Jadhav	International Journal of Advanced Engineering Research and Science (IJAERS) Vol-8, Issue-1; Jan-Feb, 2021	2349-6495(P) 2456-1908(O)	UGC Care	
3	An Alarm System for Effective and Gentle Brushing Method to Avoid the Mouth Problems Kavita Gadekar, Shailesh Jangam, Sunil Barkade* , Bharat Jadhav	October 2021 IJIRT Volume 8 Issue 5	2349-6002		7.376
4	"Ball Pen Ink Level Indicator.", Kavita Gadekar; Shrihari Gubbala; Sunil Barkade ; Bharat Jadhav.	(Volume. 7 Issue. 4, April - 2022)International Journal of Innovative Science and Research Technology (IJSRT), PP :- 818-820.	2456-2165		6.253
5.	"Effective Method of Bike Starting Using Keypad for Security against Bike Thefts", Kavita Gadekar , Shailesh Jangam , Shrihari Gubbala , Sunil Barakde , Bharat Jadhav.	Volume 10, Issue XI, International Journal for Research in Applied Science and Engineering Technology (IJRASET) Page No: 716-718,	2321-9653,		SJIF:7.538 ISRA: 7.894
6.	Y. Ghule, B. Shinde and Sunil Barkade . : Physico-chemical analysis of Water from Ujani Reservoir at Pre-Monsoon and Post-Monsoon, Solapur District, Maharashtra, India..	Bull. Env. Pharmacol. Life Sci., Spl Issue [1]: 2023:362-372.	2277-1808	UGC Care	SJIF:7.6754
7.	Shailesh Jangam , Kavita Gadekar , Sunil Barkade "Automated Back Massager: A portable massaging device for relaxation and better comfort",	International Journal of Emerging Technologies and Innovative Research Vol.10, Issue 4, page no. ppa383-a390, April-2023,	2349-5162,	UGC Care	7.95 Google Scholar

E) Paper Presentation in Conference /Seminar/ Symposia:

Sr. No	Title of paper	Name of the Conference/Seminar/Symposia Details (Title, Date, Page No etc.)	Level (Intl/Natl/State /Uni etc.)	Organizing institute
1	"Automation of bottle filling plant: PLC approach"	"Innovative trends in Electronics and Allied Technology'(ITEAT-2017)	National	Yashavantrao Chavan Institute of Science, Satara
2	"Smart Farming: IoT based smart sensors agriculture stick for live soil moisture and temperature monitoring"	Conference on Recent Advances in Renewable Energy and Hygiene Devices (RAREHD-2018)"	International	Yashavantrao Chavan Institute of Science, Satara
3	"The Applicative Aspects of Piezoelectric Sensors for Power Generation".	"International conference on Chemistry, Environment and Energy" at to be held on 16-18 February 2019	International	Yashavantrao Chavan Institute of Science, Satara
4	"Smart Helmet using GSM and GPS Technology" P.M.Indalkar,P.R.Jadhav, S.S.Barkade	"International conference on Chemistry, Environment and Energy" at to be held on 16-18 February 2019	International	Yashavantrao Chavan Institute of Science, Satara
5	"Microwave Power Transmission" R.Y. Ghadage , S.D.Jadhav, S.S.Barkade	"International conference on Chemistry, Environment and Energy" at to be held on 16-18 February 2019	International	Yashavantrao Chavan Institute of Science, Satara
6	Hologram for traffic control Pratiksha Yadav, Namrata Thoke, G.S.Nhivekar, Sunil Barkade	International conference on Emerging Trends and Challenges in Electronics and computing (ETEC-2021)	International	Department of Electronics Yashavantrao Chavan Institute of Science, Satara
7	An automated system of massage for better comfort Shailesh Jangam*, Suraj Yadav, Sunil Barkade	International conference on Emerging Trends and Challenges in Electronics and computing (ETEC-2021)	International	Department of Electronics Yashavantrao Chavan Institute of Science, Satara
8	Oxygen level monitoring	International		Department of

	based automation for Auditorium and Hall for better air quality Shailesh Jangam*, Akash Chavan1, Sunil Barkade , Shashikant Shinde	conference on Emerging Trends and Challenges in Electronics and computing (ETEC-2021	International	Electronics Yashavantrao Chavan Institute of Science, Satara
9	Y. Ghule, B. Shinde and Sunil Barkade . : Physico-chemical analysis of Water from Ujani Reservoir at Pre-Monsoon and Post-Monsoon, Solapur District, Maharashtra, India	International Conference on Emerging Trends in Applied Microbiology and Food Sciences (Dec 2022)	International	Department of Microbiology and food processing Yashavantrao Chavan Institute of Science, Satara
10	Fabrication and Characterization of Electrospun SnO ₂ Nanofibers via Electrospinning Sunil Barkade , T. Y. Bhosale, T. S. Ghorapade, S. H. Mujawar	INTERNATIONAL CONFERENCE ON NANO-BIOTECHNOLOGY (ICNB'23) 17 th and 18th March 2023.	International	Department of Nonoscience and Technology Yashavantrao Chavan Institute of Science, Satara

F) Citation Index

	Google Scholar	Scopus	Web of Science
Citations	2		
h-index	1		
i10-index	0		

❖ Participation in Orientation/Refresher/FDP/Short Term/Training Programs:

Sr No	Name of the programme	Organizing institute	Date
1			
2			
3			
4			
5			

❖ Participation in Conference/Seminar/Symposia/Workshop/Any other programs:

Sr No	Name of the event	Organizing institute	Level (Intl/Natl/ State/Uni/L ocal etc.)	Date
1	one day state level symposium on Emerging Trends in Electronics	Department of Electronics YCIS	State Level	Jan 2016.

	and Computer Science Technology	Satara		
2	“NET/SET Exam and Career Guidance”	Department of Electronics YCIS Satara	State Level	2019.
3	sponsored Workshop on “Embedded System Design Based on 8051 and PIC Microcontroller”	Department of Electronics YCIS Satara	State Level	Feb 2016.
4	in “A Two days Hands on Workshop on PCB Design and Etching”	Department of Electronics YCIS Satara	State Level	2016,2017,2018,2019,2020
5	“A four days Hands on Workshop on Embedded Product Design”	Department of Electronics YCIS Satara	State Level	2016,2017
6	“A Two days Hands on Workshop on World of Android”	Department of Electronics YCIS Satara	State Level	Nov 2017.
7	“Faculty Development Program on Recent Advances in UG Programme	Department of Electronics YCIS Satara	State Level	June 2019
8	“Innovative trends in Electronics and Allied Technology’(ITEAT-2017)	Department of Electronics YCIS Satara	National	Feb 2017.
9	International conference on Emerging Trends and Challenges in Electronics and computing (ETEC-2021)	Department of Electronics YCIS Satara	International	2021
10	Recent Advances in Renewable Energy and Hygiene Devices (RAREHD-2018)”	Yashavantrao Chavan Institute of Science, Satara.	International	2018
11	,”International conference on Chemistry, Environment and Energy	Yashavantrao Chavan Institute of Science, Satara.	International	16-18 February 2019
12	International conference on Emerging Trends and Challenges in Electronics and computing (ETEC-2021)	Yashavantrao Chavan Institute of Science, Satara.	International	2021
13	Emerging Trends in Applied Microbiology and Food Sciences	Yashavantrao Chavan Institute of Science, Satara.	International	2 and 3 Dec 2022

❖ **Resource person in Conference/Seminar/Workshop/Any other programs:**

S. No.	Title of the event	Level (Intl/Natl/ State/Uni./local etc.)	Organizer	Date
1	Workshop on PCB Design and Etching	Local	Department of Electronics YCIS Satara	13 -14 July 2016
2	Workshop on PCB Design and Etching	Local	Department of Electronics YCIS Satara	11-12 August 2017
3	Workshop on PCB Design and Etching	Local	Department of Electronics YCIS Satara	13-14 August 2018

4	ICT Tools for effective teaching learning and administration	National	YCIS Satara	26 to 31 may 2020
5	Introduction features and applications of Zoom Application	National	Shri Shivaji Mahavidhyalaya Barshi	11 march 2021
6	Faculty “Discipline Specific Development Programme (FDP)”On Revised Syllabus for B.Sc.I and M.Sc.I	University	Department of Electronics YCIS Satara	28-08-2021
7	Two Days Hands on Workshop on PCB Designing and Etching”	University	Department of Electronics YCIS Satara	24-03-2022 To 15-03-2022
8	Workshop on “Robotics Programming and Maintenance””	Local	Department of Electronics YCIS Satara	29-03-2022
9	One Day Workshop on “IoT Based Project Design and Development”	University	Department of Computer Science YCIS Satara	12-04-2022
10	One day workshop of Case studies of IPR in Computational Sciences	University	School of Computational Sciences	31-03-2023

❖ **Chaired Sessions in Conference/Seminar/Workshop etc.:**

Signature of Faculty