



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

Faculty Profile

❖ **General information**

Name : SHINDE SHASHIKANT KISANRAO

Designation : Assistant Professor

Department : Electronics

Educational Qualification : M.Sc., NET

Date of Appointment : 20 February 2020

Teaching Experience : UG: 12 years

PG: 02 years

Research Experience : 05 years

Research Area : Microfluidics Lab on Chip, Robotics, Artificial Intelligence, 3D printing and Rapid Prototyping
Agricultural Applications



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

Sr. No	College/University	Degree	Subject	Year of passing	% Marks	Class
1	Garvare Research Centre, Savitribai Phule Pune University, Pune	Ph.D.	Electronic Science	Ongoing	-	-
2	University Grants Commission	NET	Electronic Science	June 2012	62	-
3	Shivaji University	M.Sc.	Electronics	2007	70.54	Dist.
4	Shivaji University	B.Sc.	Electronics	2005	76.20	Dist.

❖ **Academic and Administrative Responsibilities**

Sr. No.	Position	Organization	Date/ Duration	
			From	To
1	Assistant Professor	Yashavantarao Chavan Institute of Science, Satara	17/02/2020	Still today
2	Assistant Professor (CHB)	Yashavantarao Chavan Institute of Science, Satara	01/12/2011	16/02/2020
3	Assistant Professor (Visiting)	Solapur University, Solapur	03/07/2009	30/04/2011
4	Lecturer	Vidhya Pratisthan, Baramati	01/07/2008	30/04/2009
5	Head Department of Electronics and Computer Science		June 2022-Still Today	
6	Coordinator: Yashavantrao Chavan Institute of Science, Centre for Invention, Innovation, and Incubation (YC-CIII)		01/10/2018-Still today	
7	Coordinator and SPOC, NPTEL, SWAYAM, IITB local chapter		June 2015-Still Today	
8	Coordinator and team leader e-Yantra Robotics lab setup, IITB, NMEICT		01/04/2019-Still today	
9	Convener, Ministry of Education, Institute Innovation Council (IIC)		01/12/2019-Still today	
10	Coordinator, Virtual Lab, an Initiative by MHRD under NMEICT		June 2020 - Still today	
11	Coordinator, Indian Institute of Remote Sensing (IIRS) outreach program		January 2017-Still Today	

❖ **Awards/Honors/Recognitions/Scholarship etc.:**

Sr. No.	Name of the award/honor/recognition	Awarding Organization	Date and year
1	Innovation Ambassador	Ministry of Education, Intitute Innovation Council	June 2022
2	for contributing to renovate SSGSV, Tambave village school	Rayat Shikshan Sanstha, Satara, Central Division	2018.
3	Gunvant Shikshak	Bhairavanath Samajik Sanstha, Tambave,	2017
4	Gunavant Shikshak	YCIS, Satara	2013
5	Eklavya Scholarship for Higher education by	Government of Maharashtra,	2006-07

❖ **Membership to Professional Organizations/Associations:**

Sr. No.	Membership type (Annual/Life/any other)	Organization/Association	Date and year
1	Member	The Institute of Electrical and Electronics Engineers (IEEE)	2020
2	Life Member	Institute for Smart Structures and Systems (ISSS)	2020
3	Life Member	Society for Promotion of Excellence in Electronics Discipline (SPEED)	2015
4	Member	The Institution of Engineering and Technology (IET), MIET	2018
5	Member	The Indian Science Congress Association (Membership No. SLM2847)	2019
6	Life Member	Institute of Scholars, INSC	2020
7	Member	International Association of Engineers (IAENG)	2016
8	Associate Member	Universal Association of Computer and Electronics Engineers	2018

❖ **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	National Conference papers in MAGEC- 2014, proceeding,.	978-81-928732-2-0.	Editor	YCIS, Satara	2014
2	National Conference papers in ITEAT- 2017, proceeding,	-	Editor	YCIS, Satara	2017
	International Conference on Emerging Trends and Challenges in Electronics and Computer	-	Editor	YCIS, Satara	2021

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

Sr. No.	Title of Project	Duration	Amount Sanctioned (in Lakhs)	Agency	Status (Ongoing/ Completed)
Minor Research Project					
1	Smart Farming: IoT based smart sensors agriculture stick for live soil moisture and temperature monitoring	1Year	10,000/-	Shivaji University, Kolhapur	Completed
2	Development and Deployment of Lab-on-a –Chip Microfluidics system for Agricultural Detection, Analysis and Diagnostic.	1Year	30,000/-	Seed money YCIS, Satara	Completed
3	Digital Modelling and 3D Scanning of Historical Statue	1Year	1,62,500/	RUSA/YCIS-CIII	Completed
4	Retrofitting of 2-wheeler and 3-wheeler	1Year	-	Mutha Group and YCIS-CIII	Completed
5	Robotics and Automation for Smart Agricultural Applications	1Year	1,50,000/	RUSA In house project scheme	Completed
6	Use of Augmented Reality for making Education modules	1Year	1,00,000/	RUSA In house project scheme	Completed

❖ **Details of Research Publications**

A) Patent:

Sr. No.	Title	Patent No.	Indian/US/ Any other	Granting date
1	Innovative Harvesting Tool	202021006404	Indian	Filed

B) 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	3D Printed Microfluidics For Agricultural Nutrient Detection And Its Applications Towards Lab-On-Chip	Journal of Emerging Technologies and Innovative Research (JETIR)	(ISSN-2349-5162)	UGC Care	7.95 (Calculate by Google Scholar)
2	“Wavelet Transform Based Techniques for Fault Detection of Power Supply Unit”, J. A. Wagh, S. K. Shinde, S. R. Pol, R. R. Mudholkar, P. P. Shah,	IJEE Volume-6, Number-1 Jan-June 2014 pp.47-50.	ISSN: 0973-7383	UGC Care	2.08
3	“Application of Wavelet Transform and its Advantages Compared to Fourier Transform in Biomedical Signal Processing in Matlab Domain”, J.A. Wagh, S. K. Shinde, R. R. Mudholkar	Proceeding of ICIASP-2013, pp 22-25, Karad.	ISBN 978-81-8487-359-7.	-	-
4	Fault Detection and Analysis of Power Supply Circuit for Energy Conservation: A Transform Approach 198 J. A. Wagh, S. K. Shinde, R. R. Mudholkar, P. P. Shah,	Proceeding of MAGEC-2014, pp 198-202, Satara.	ISBN 978-81-928732-2-0	-	-

B) Paper Presentation in Conference /Seminar/ Symposia:

Sr. No.	Title of paper	Name of Conference/seminar/symposium with date	Organiser	State/Natl/International	Type of participation
1	FPGA Based home Automation System	Advances in VLSI Design and Technology. 19-20 th Dec. 2011.	SMM, Akluj.	National	Presented
2	Fault detection of Electronic Circuit using wavelet transform”, J.A.Wagh, S. K. Shinde, R. R.Mudholkar, NCET-2012, Kolhapur.	NCET-2012, Kolhapur 27-28 Dec. 2012	DOT, Shivaji University, Kolhapur	National	Presented
3	“Advantages of Wavelet transform over Fourier transform”, J. A. Wagh, A. J. Pawar,S. K. ShindeR.R.Mudholkar, RAET-2012, Pandharpur	RAET-2012, Pandharpur	KBP College, Pandharpur	State	Presented
4	“Fault diagram in electronic Circuit using certifiable Neural Network”, A. J. Pawar, J. A. Wagh,S. K. Shinde RAET-2012, Pandharpur	RAET-2012, Pandharpur	KBP College, Pandharpur	State	Presented
5	Wireless nanosensor network. S. K. Shinde, L. P. Deshmukh, A. D. Shaligram, RTD-NSD-201, Solapur	RTD-NSD-2013	Solapur University, Solapur	National	Presented
6	Application of Wavelet Transform and its Advantages Compared to Fourier Transform inBiomedical Signal Processing in Matlab Domain.	ICIASP-Karad 25-27 Nov.2013	DACOE, Karad.	International	Presented

7	Fault Diagnosis in Analog Electronic Circuits: Wavelet Approach	LATEST-2014 February 14-15	Shivaji University, Kolhapur	National	Presented
8	Fault Detection and Analysis of Power Supply Circuit for Energy Conservation: A Transform Approach	MAGEC-2014 Sep. 29-30	YCIS, Satara.	National	Presented
9	Wavelet Transform Based technique for Fault Detection and Analysis for Analog Circuit, J.A. Wagh, S. K. Shinde, R. R. Mudholkar and P.P. Shah, NCAWSNA-2014,Akluj.	NCAWSNA-2014	SMM, Akluj	National	Presented

F) Citation Index

	Google Scholar	Scopus	Web of Science
Citations	5	-	-
h-index	3	-	-
i10-index	0	-	-

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

Sr. No.	Name of Program	Organizing Institute	Date and Year
1.	Online, Internship Training Program on Microfluidics,	Centre of Excellence in MEMS Microfluidics, Rajalaxmi Engineering College, Chennai, India	August 26- September 25 2021
2.	Inter-Disciplinary And Multi Lingual Two - Week Refresher Course on “ Research Methodology ”.	Teaching Learning Centre, Ramanujan College University of Delhi under the aegis of Ministry of Education Pandit Madan Mohan Malaviya National Mission On Teachers And Teaching	23 October - 06 November, 2021
3.	5-day e-Course on “ Innovation, Entrepreneurship & Startup Ecosystem ”, a Short-Term Training Program (STTP),	GUSEC, IIES and Gujarat University.	October 18 - 22, 2021
4.	PMRF Course, “ Micro-Nano Fabrication and Characterization ”,	Institute of Smart Structure and System	Nov. 10, 2021
5.	Online Elementary FDP on “ Agri Entrepreneurship ”	AICTE Training and Learning (ATAL) Academy at Entrepreneurship Development Institute of India.	August 23- 27, 2021
6.	Innovation Ambassador Training (Foundation Level)	Conducted by MOE's Innovation Cell and AICTE	30 June- 30 July, 2021
7.	Online Certificate Course on Finland Education System,	by CCE, Finland	19 May-3 July 2021

8.	FDP on “LAB ON CHIP”,	AICTE Training and Learning (ATAL) Academy	(18 -22) January 2021
9.	FDP on " BioMEMS and LAB ON CHIP Technologies for Point of Care Applications”,	AICTE Training and Learning (ATAL) Academy	(5 -9) July 2021
10.	Faculty Development Program online "How Teachers Make Difference"	Department of Information VRSC in collaboration with TLC, IIT Madras.	(15-17) April 2021
11.	Online Industrial Training for College Faculties on Artificial Intelligence (AI) & Internet of Things (IoT).	MSME Skill Technika Government Certified	April 19 - May 09, 2021
12.	Inter-Disciplinary And Multi Lingual Two - Week Refresher Course on “Managing Online Classes & Co- creating MOOCS 4.0”.	Teaching Learning Centre, Ramanujan College University of Delhi under the aegis of Ministry of Education Pandit Madan Mohan Malaviya National Mission On Teachers And Teaching	March 11 - 26, 2021
13.	Online Certificate Course in Research Methodology and Publication Ethics	ABS, Garware college, Pune.	05 March – 24 April 2021
14.	AICTE- ISTE Sponsored Orientation/ Refresher Course on " Industrial Application of MATLAB	Ojaswini Institute of Management & Technology, Damoh, MP, India.	(18-23) March, 2021
15.	FDP on,” Essential Software Tools & Trends in Innovative Design Delivery Systems”,	TEQIP-3, Coimbatore Institute of Technology	(19-21) March, 2021

16.	FDP on," Technology Startups and IPR".	TEQIP-3, Dr. Babasaheb Technological University Lonere and KBPCOE, Satara	(15-17) March, 2021
17.	AICTE Training and Learning (ATAL) Academy Online FDP on " 3D Printing & Design",	IIT Ropar	1 - 5 th February 2021.
18.	Online FDP on " Lab on Chip".	AICTE Training and Learning (ATAL) Academy	18 -22 January 2021.
19.	Six Days Online FDP on "Recent Trends in Biomedical Engineering"	Department of Biomedical Engineering, VELTECH.	(7 - 12) January 2021
20.	Short term training on Artificial Intelligence and Emerging trends	by ISTE, KBPCOE, Satara	(4-8) January 2021
21.	FDP on " Augmented Reality (AR)/ Virtual Reality (VR)" ,	AICTE Training And Learning (ATAL) Academy	30 November to 4 December 2020
22.	Training of the Trainer , Bootcamp on Design Thinking, Creativity , Problem Solving and Innovation.	YCIS, Satara	6 September to 15 December 2020
23.	Faculty Development Program on Quantum Computing	jointly organized by the Electronics & ICT Academies and National Institute of Technology, Arunachal Pradesh	24 – 29 August 2020
24.	TEQIP III Sponsored One Week Online Short-Term Course on Cloud of Things: Theoretical and Practical Implications,	NIT, Jalandhar	August 10-14, 2020

25.	Faculty Development Program on “Wireless Communication Technologies for IoT”	jointly organized by Electronics and ICT Academies	27 July -07 Aug, 2020
26.	Orientation Program for "Faculty in Universities/Colleges/Institutes of Higher Education	Ramanujan College, Delhi, Sponsored by MHRD	June 04 - July 01, 2020
27.	Task Based training for e-Yantra Lab set up Initiative (eLSI),	IITB	August 2019
28.	Faculty Development Program ,	YCIS, Satara, Sponsored by RUSA	June 2019
29.	Faculty Development Program in Entrepreneurship	STP, NSTEDB-DST	February 2019
30.	GIAN Course on Nanoscale Wireless Networking	NIT Goa	December 2016
31.	Art of Living Youth Leadership Training Program (YLTP)		November 2016
32.	Faculty training program on Research planning and technical paper writing	YCIS, Satara	January 2015
33.	"On Microcotroller Boards Pt-51, Aurum and Krypton Boards developed by e-prayog".	At IIT Bombay, Wadhawani Lab	August 2014

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

Sr. no	Date	Institute	Program	Title
1)	12 th February 2022	Marathwada Mitra mandal, College of Commerce, Pune	Research Orientation Programme	Design thinking, Innovation and Research
2)	09 th February, 2022	Y.C.I.S Of Satara	One Day Faculty Training Program	Diploma and Skill Development Program
3)	01 st February, 2022	New Arts, Commerce and Science College, Ahmednagar.	DBT STAR College Scheme	Innovation in Industry 4.0 and Robotics
4)	07 th October, 2021	Y.C.I.S Of Satara	Induction Programme 2021-22	Introduction to center for invention, Innovation And incubation
5)	21 st October, 2021	Y.C.I.S Of Satara	Induction Programme for student	Introduction to center for invention, Innovation And incubation
6)	19 th to 24 th July, 2021	Y.C.I.S Of Satara	One week online workshop on "Artificial Intelligence"	Information "Artificial Intelligence"
7)	19 th to 24 th July, 2021	Y.C.I.S Of Satara	One week online workshop on "Artificial Intelligence"	Information "Artificial Intelligence"
8)	22 nd October, 2021	Y.C.I.S Of Satara	Two days' workshop on teachers training for "Mentoring and Counselling of students"	College activities for student
9)	30 th October, 2021	Y.C.I.S Of Satara	Orientation programme for B.Sc. III	Business Startup idea
10)	17 th August, 2021	Y.C.I.S Of Satara	Lecture under staff academy organization	Research, innovation and ranking Higher education
11)	11 th October, 2021	Y.C.I.S Of Satara	Five days' orientation programme for students of B.Sc. I (professional Courses)	Introduction to center for invention, Innovation And incubation

12)	11 th October, 2021	Y.C.I.S Of Satara	Three days' induction Programme for student B.Sc. I	Introduction to center for invention, Innovation And incubation
13)	07 th December to 9 th December 2021	Y.C.I.S Of Satara sponsored by DST	Entrepreneurship Awareness Camp	Marketing Management in Small Business and In Importance of Communication
14)	30 th June, 2021	Y.C.I.S Of Satara	Entrepreneurial Thinking And Action	Importance Of Skill Development Courses
15)	19 th April to 20 April 2021	Y.C.I.S Of Satara	Two Days Workshop	Project Design Develop Demonstrate Patent Prototype Presentation Publication(PD3P4)
16)	23 th September, 2020	Y.C.I.S Of Satara	Workshop on E- content development under UGC-Para marsh	Designing an effective e-content development and needed tools
17)	17 th December, 2020	Y.C.I.S Of Satara	4 days Induction programme for M.Sc. 1 student	Introduction to center for invention, Innovation, and Incubation(CIII)
18)	18 th February, 2021	Y.C.I.S Of Satara	One day workshop on model based learning	Model based learning (MBL)
19)	09 th November, 2020	Y.C.I.S Of Satara	Entrepreneurship development cell (EDC)	Entrepreneurship development cell (EDC)
20)	13 th October, 2021	Y.C.I.S Of Satara	Orientation programme for B.Sc. III	Business Startup Ideas
21)	23 th October, 2021	Y.C.I.S Of Satara	Five days orientation programme for students of B.sc III (professional Courses)	Introduction to center for invention, Innovation And incubation
22)	11 th October, 2021	Y.C.I.S Of Satara	Three days' orientation programme for students of M.Sc. 1 (professional Courses)	Introduction to center for invention, Innovation And incubation
23)	14 th October,	Y.C.I.S Of Satara	Three days induction Programme for student	Introduction to center for invention, Innovation And

	2021		M.Sc. 1	incubation
24)	11 th October, 2021	Y.C.I.S Of Satara	Three days' orientation programme for students of B.Sc. I (professional Courses	Introduction to center for invention, Innovation And incubation
25)	February 2019.	Yashavantrao Chavan College, Karad,	Invited Talk	Internet of Things,
26)	26 th January 2019.	Kumbhoj,	Guest Session	Padamabhushan Dr. Karmaveer Bhaurao Patil,
27)	March ,2018.	SSPM, Lonand,	NSS Camp	Padamabhushan Dr. Karmaveer Bhaurao Patil,
28)	2018	Dahiwadi College, Dahiwadi	Invited talk	Internet of things for Agricultural applications,.
29)	2018	YCIS, NSS Camp, Malagaon, Satara	NSS Camp	Science and Spirituality, NSS,
30)	November 2017	Navdurga Utsav, Tambave, Satara,	Vyakhanmala	Jagar Vicharancha

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

S. No.	Title of the event	Level (Intl/Natl/State/Uni./local etc.)	Organizer	Date
1	National Seminar on Sustainable Agriculture and Smart Technology (SAST-2023)	National	Department of Electronics, YCIS, Satara	May, 16 2023

Signature of Faculty