

# Ms. Panchsheela Kamble

## Present position

- Assistant Professor

## Contact Details



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## Work Experience

- Teaching: 12 years
- Research/Industrial: 3 years

## Personal Profile

*An ardent tech enthusiast working extensively on learning electronics incorporating augmented reality. As an assistant professor, Skilled in Classroom Management, teaching, and Lesson Planning. Capable of building an open and interactive environment to help students express themselves in a better way. Proficient in a range of teaching styles and communication. I am into the development of AR applications delivering a highly immersive, interactive, experience for electronics learning. Strong ability to handle complex projects. Innovative, creative, and willing to contribute ideas and learn new things.*

## Course(s) Taught

1. Mathematical methods in Electronics
2. Network Analysis.
3. Data communication and WSN.
4. VLSI
5. Power Electronics
6. PLC programming and applications.

## Field of Specialization/Areas of Interests

- Augmented Reality
- Electronic Design Automation.
- Circuit simulation and PCB Designing
- Embedded systems
- Signals and systems
- Computer Networking
- IoT

## Education

- **Ph.D. – (Electronic Science):** from 06.02.2020 to ongoing  
**Name of University / Institution:** Savitribai Phule Pune University
- **Master of Science- (Electronic Science):** 2010  
Fergusson College (Autonomous), Pune. SPPU, Pune
- **Bachelor of Science- (Electronic Science):** 2008  
Modern College, Pune. SPPU, Pune

## Fellowship/Awards/ Certifications/Achievements/Recognitions

1. Best paper presentation award for the research paper titled” **Immersive Tool for Learning Electronics using Augmented Reality**” at International Conference on Recent trends in Science and Technology on 29th June 2022.
2. One of the Top 100 mentors for KPIT SPARKLE 2020-21
3. Junior Research Fellowship, UGC NET (JRF), in Electronic Science in 2011
4. Winner of Consolation prize at State Level M.Sc. Project Competition 1<sup>st</sup> and 2<sup>nd</sup> April 2009, at Modern College of Arts, Science and Commerce, Shivajinagar Pune-5
5. Appointed as a judge and guest invite at Pratibha Tai college Chinchwad to evaluate the Electronics projects of B.Sc. students on 28th February 2022.
6. Delivered online lectures to UG and PG students of all colleges under SPPU in 2021 on the topic- PLC and its applications.
7. Delivered online lectures on “Introduction of Raspberry PI”, @ Students of SYBSC(CS) and F.Y.B. Sc (CS) of Pratibha College of Commerce & Computer Studies on 9th January 2021.

## Member of College Committees/ Professional Bodies and Others

College Level	Professional Bodies	Others
<ul style="list-style-type: none"><li>• Placement Co-ordinator</li><li>• DESC Incubation core team</li></ul>	International Association of Academic plus Corporate Society - [IAAC], IEEE Student member.	BoS Department of Electronic Science

## Employment History

- 1) **Organization** : Fergusson College (Autonomous), Pune  
**Role** : Assistant Professor  
**Duration** : 16.09.2010 till date

<b>Responsibilities</b>	<ul style="list-style-type: none"><li>• M.Sc. Electronic Science Classroom Management, teaching and Lesson Planning.</li><li>• Looking for Placement for the department.</li><li>• Preparing Lab-booklets for practical courses.</li><li>• Conducting Pre-placement lectures</li></ul>
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	<ul style="list-style-type: none"> <li>Organized various workshops / Guest Lectures under DBT (Dept. of Biotechnology), CPE (College with Potential for Excellence), and CE (College of Excellence) scheme for M.Sc. Students.</li> <li>Successfully completed the Sanctioned projects under various DBT schemes.</li> <li>Preparation of notes for the given subject courses.</li> <li>Conduction of CE with methods of participation, experiential, and problem-solving methodologies.</li> </ul>
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## Research Projects

Title of the Project	Name of Funding Agency	Amount (Rs)	Duration (Year) (From-To)	Type (Minor/Major)	Outcome
E-Bicycle	Fergusson college RCC Seed money 2022	30000	13.06.2022- 31.12.2022	Minor	Developing an e-bicycle with SDG for smart campus
Smart Campus	Fergusson college RCC Seed money 2022	39000	13.06.2022- 31.12.2022	Minor	Developing an automated system for smart campus
Smart Dashboard for real-time sensor data output using Augmented Reality	UGC, the Star program under "College with Potential" (CPE)	10000	2020-21	Minor	Use of Augmented Reality for deploying smart dashboard
Smart Attendance system	UGC, the MAST program under "College with Potential" (CPE)	5000	2019-20	Minor	A smart fingerprint-based attendance system
WIFI Weather station	Projects selected under the MAST Programme of UGC - CE (2018-2019)	5000	2018-19	Minor	Developing a WIFI based automated weather station

## Research Publications in National and International Journals

- Sagar Pangavhane, Meghraj Chavan, and **Panchsheela Kamble**, "*Low-cost Portable Solar Irradiance power meter.*" At the International Conference on "Recent Trends in Science and Technology" 2022
- Ms.Panchsheela Kamble**, Ms. Khushbu Ingale, Dr. Neha Deshpande, Dr. A. D. Shaligram "*Immersive Tool for Learning Electronics using Augmented Reality*" At the International Conference on "Recent Trends in Science and Technology" 2022
- Meghraj Chavan, Vansh Chainani and **Panchsheela Kamble**, "*Design and Development with a Promethean Concept of E-Bicycle.*" At the International Conference on "Recent Trends in Science and Technology" 2022
- Panchsheela B Kamble**, Dr. Neha Deshpande, Dr. Arvind Shaligram, "*Development of Experiential Learning tools for vocational training using Augmented Reality*" @ ICRTICPT-2022, Rajalakshmi Institute of Technology, ISBN No: 978-93-94588-00-4, Proceedings of the First

International Conference on Recent Trends in Information, Communication and Pervasive Technologies-ICRTICPT'2022, 12<sup>th</sup> and 13<sup>th</sup> May 2022.

5. Puloma Singh & Shweta Dhavale, **Panchsheela Kamble**, Kalpana Kulkarni “*Wi-Fi Based Adventures Sports Health Monitoring System*”, at International Journal of Research and Analytical Reviews (IJRAR), © 2018 IJRAR January 2019, Volume 06, Issue 1 www.ijrar.org (E-ISSN 2348-1269, P- ISSN 2349-5138), [https://www.ijrar.org/viewfull.php?&p\\_id=IJRAR1900036](https://www.ijrar.org/viewfull.php?&p_id=IJRAR1900036)
6. Freni Malviya, Paulami Nath, **Panchsheela Kamble**, “*Smart Attendance System Using Bio-Metric Identifier With Oled Display* “NCMRST-2020, National Conference at Shri RLT College of Science, Akola, <https://rltsc.edu.in/wp-content/uploads/2020/02/Souvenir-NCMRST-2020-Shri-R.L.T.-College-of-Science-Akola.pdf>
7. Patel, Nij Jayendrabhai; Lokhande, Mahesh Nivrutti; Kulkarni, Kalpana; **Kamble, Panchsheela**; “*LED Illumination and data acquisition with Graphical User Interface of MATLAB*” CESDO-2020: Conference on Engineering Systems Design and Optimization, G H Raisoni College of Engineering and Management, Ahmednagar, India, February 27-28, 2020
8. Chakraborty Nilanjan; Nath Paulami; **Panchsheela Kamble**, “*IoT Based Smart Robotic Car*” CESDO-2020: Conference on Engineering Systems Design and Optimization, G H Raisoni College of Engineering and Management, Ahmednagar, India, February 27-28, 2020

#### **Participation in Conferences/Seminars/Symposia/Workshop:**

1. “Pre-University Teachers for a workshop on Education 4.0 - IoT and Applications as Emerging Trends” Under IEEE Educational Activities, Pune Section, Communication Society STEM initiative and IEEE Pune Section at **Symbiosis International University, Lavale and Labs of SIT, on 26<sup>th</sup> and 27<sup>th</sup> August 2022.**
2. “**Linux OS Workshop: A practical approach towards learning OS concepts** “, Organized by Department of Mathematics, Fergusson College, Pune
3. ‘**Internet of Things (IoT) and IT’s Application in Industry**’, Organized by Ramrao Adik Institute of Technology, Nerul, Navi Mumbai
4. The National Webinar on “**Fostering Research Culture in Higher Education Institutes**” on 17th April 2021, organized by IQAC department of SIES College of Arts, Science, and Commerce (Autonomous).
5. Completed the “**certificate course in research methodology and publication ethics**” which was organized by IQAC, MES Abasaheb Garware College, Pune between 5th March 2021 and 24th April 2021
6. Completed the “Online Internship on AR & VR” which was conducted from 5th April 2021 to 5th May 2021 by Gustavovalley Technovation’s.
7. A one-week national level online faculty development program on “**recent trends in electrical engineering**” organized by the Department of Electrical and Electronics

Engineering of Geethanjali Institute of Science and Technology, Nellore, from 16th August 2021 to 23rd August 2021.

8. Participated in the Five-Day Faculty Development Program (Online) on “**Recent Trends in Next-Generation Communication Technologies**” organized by the Department of Electronics & Communication Engineering, Bapatla Engineering College, Andhra Pradesh, India from 16th to 20th August, 2021.
9. Participated in the National Level Online workshop on “**Electronic Design Automation (EDA) Tools**” (the component is included under skill enhancement course of CBCS pattern of SPPU) organized by the Department of Electronic Science and Internal Quality Assurance Cell (IQAC) of K. K. WAGH ARTS, SCIENCE AND COMMERCE COLLEGE PIMPALGAON (B.)
10. International Workshop on **Advance Statistical Data Analysis Using SPSS**, organized by Science Tech Institute, Lucknow, UP India during Sept 21-27, 2021.
11. One Week Online Faculty Development Program On **Advanced Research Methodology** during March 21 – 27, 2022, Jointly Organized by Amiruddaula Islamia Degree College, Lucknow & Science Tech Institute (Run by MKS Educational Society), Lucknow, UP India.
12. Two-day workshop on **Machine Learning and AI at IIT Bombay** organized by Robotech labs with Certificate of Excellence from Aakaar IIT Bombay & Robotech Labs, scheduled from 15th -16th February 2020.
13. Two-day workshop on **IPR** , organized by DES - ISTP CELL, Fergusson College.
14. Participated in Three Days State Level Workshop on “**Development of Mechatronic Systems using Arduino**” (A Project Based Learning Approach) 18th – 20th August 2017, PICT, PUNE
15. Participated in the Two-day Demonstration on “**Internet of things (IoT)**” Conducted by Mr. Shivkumar from Benchmark 12th -13th April 2017.
16. Attending Teacher’s training workshop on “**MATLAB interfacing with IOT**” was organized on 7th July 2017. This program was organized by Prowiz systems.

## Events Organized/Coordinated:

Sr. No	Name of the Event	Name of organizing Institute/ College/ University	Nature of contribution	Dates
1.	Current Trends in Transdisciplinary Electronic Systems.	Fergusson College (Autonomous), Pune	Co-ordinator	18 <sup>th</sup> to 23 <sup>rd</sup> July 2022
2.	An Industry interaction with Electronics companies, and MoU signing.	Fergusson College (Autonomous), Pune	Co-ordinator	09 July 2022
3.	FC-HACKATHON 2022	Fergusson College (Autonomous), Pune	Co-ordinator	12 <sup>th</sup> & 13 <sup>th</sup> March 2022
4.	Elektra -2022	Fergusson College (Autonomous), Pune	Co-ordinator	7 <sup>TH</sup> to 10 <sup>th</sup> April 2022
5.	"SEMICONDUCTOR TECHNOLOGY IN DEFENCE" by Dr. Seema Vinayak, Scientist 'H', Director of Solid-State Physics Laboratory (SSPL)	Sharada Shakti and Electronic Science Department, Fergusson College (Autonomous), Pune	Organizing member	8 <sup>th</sup> March 2022
6.	A five days Hands-on-Training for Applications of 'C' in Electronics	Fergusson College (Autonomous), Pune	Co-ordinator	15th March 2021 to 19th March 2021
7.	Best Opportunity for Computer and Electronic Science Students under Campus to Corporate.	Fergusson College (Autonomous), Pune	Co-ordinator	9 <sup>th</sup> October 2021
8.	One-day Online workshop on "Scilab and its use in learning Data communication and Computer networking"	Fergusson College (Autonomous), Pune	Co-ordinator	01.11.2020.
9.	HR- Meet 2019, under Campus to Corporate.	Fergusson College (Autonomous), Pune	Organizing member	23 <sup>rd</sup> December 2019
10.	Guest lecture on "Career, Growth and Stability in a MNC firm" by Mr.Sagar D. Panindre, Deputy Manager Technical Support from EATON Company	Fergusson College (Autonomous), Pune	Organizing member	21st July 2017

### **Additional skills/Activities**

1. Academic writing
2. Online lecture delivery for science and technology colleges
3. Content development & delivery for formal teaching.
4. Technical Research
5. Effective human relations and teamwork skills.
6. Ability to communicate effectively with good leadership & coordination skills
7. Certificate course in the basic Programming languages
8. As a Developer for Augmented Reality Apps.

### **Consultancy Services**

1. KPIT Consultancy Team