CURRICULUM VITA

1) Name : Dr. Pawar Aparna Madhukar

2) Educational Qualification : M.Sc. Ph.D., SET

3) Present Designation : Assistant Professor

4) Date of Birth : 12/02/19875) Contact No. :8275206489

6) Email ID : aparnapawar21@gmail.com, am.pawar@tccollege.org

7) Date of Appointment :14/07/20098) Teaching Experience : 16 Years

9) Date of joining in present college: 14/07/2009

10) Educational Qualification:

Sr.	Examinatio	University/ Board	Year of	Subject(s)	Class/ Grade
No.	n Passed	Chive sity Dourd	Passing Subject(s) Class		Cluss, Grade
1	SET	Savitribai Phule Pune	2019	Electronics	
		University, Pune			
2	Ph.D.	Solapur University, Solapur	2015	Electronics	Awarded
3	M. Sc.	Solapur University, Solapur	2009	Electronics	Second Class
4	B.Sc.	Shivaji University,	2007	Electronics	Higher
	D.SC.	Kolhapur	2007	Electionics	Second Class

11) Total Research Publications : 29

a. M.Phil. / Ph.D./Research

Sr. No.	Ph. D. Thesis Title	Name of The Univ.	Year of award	Name of Guide
1	Development of Zigbee Technology Based Wireless Sensor Network System For Greenhouse Applications	Solapur University, Solapur	June 2015	Prof. Dr. B.P. Ladgaonkar

b. Book: 05

Sr. No.	Title of Book	Year of publication	ISBN	Name & Place of Publisher
1	Electronic Waste Management Challenges and Role of Recycling	July2024	978-93-6095-258-7 Book Chapter	Authors Press New Delhi
2	Wireless Sensor Network for Agricultural Application	2022	978-620-3-19336-7	Lambert Academic Publication
3	A Comparative Study Humidity Sensors: Plasma Polymerized and Spin Coated	2021	978-6204207445	Lambert Academic Publication

		Thin Film Sensors			
	4	Electronic Instrumentation for	2021	978-620-3-02985-7	Lambert Academic
L		Sensor Module.	2021		Publication
		Electronic Instrumentation for		978-620-3-20163-5	Lambert Academic
	5	AC Susceptibility	2021	770 020 3 20103 3	Publication
		Measurement			ruoncanon

c. Research Paper: 29

Sr. No.	Title of the Paper	Name of Journal	Month and Year of publication	ISSN	UGC. No./Impact Factor/ Citation Details
1	Development of Smart Real Time Electronic System for Warehouse Application	Journal of the Maharaja Sayajirao University of Baroda	Volume-58, No.1(VI): 2024	0025-0422,	UGC Care Group 1 Journal
2	Design and Implementation of an Analog and Mixed- Signal System on Chip for ECG Monitoring	Journal on Future Engineering and Technology (JFET)	Volume 19 Issue 4 Sept. 2024	0973-2632	IF 4.651
3	Development of Smart Real Time Embedded System For Weather Monitoring	Journal of the Maharaja Sayajirao University of Baroda	Volume-58, No.1(VI): 2024	0025-0422,	UGC Care Group 1 Journal
4	Development of Arduino Based Solar Tracking System to Increase Efficiency of Solar Panel	Journal of Emerging Technologies and Innovative Research (JETIR)	October 2023, Volume 10, Issue 10	2349-5162	(<u>UGC</u> <u>Approved</u> <u>Journal no</u> <u>63975</u>) IF:7.95
5	Development of Polycrystalline Ferrite BasedSmart Sensor module using Mixed Signal Programmable System on Chip	Int. Res. J. of Science & Engineering, Special Issue A12 https://doi.org/10.5281/zenodo.7839063	February, 2023, Special Issue A12	2322- 0015	IF 6.70
6	Development of an Embedded System for Agro-Industrial Applications	Int. Res. J. of Science & Engineering, Special Issue A12	February, 2023	2322-0015	IF 6.70
7	Wireless Sensor Network for Site Specific Crop Management for Precision Agriculture	ICTACT Journal on Communication Technology	December 2022	(Print) 0976-0091 (Online) 2229-6948	UGC Care List
8	Review of Sun's Position Tracking System to Increase Efficiency of Solar Panel	Journal of Emerging Technologies and Innovative Research (JETIR)	April 2022,	2349-5162	(UGC Approved Journal no 63975) IF:7.95
9	Implementation of Poly Crystalline ferrite material as Sensor for CO2 Detection using Cypress CY8C29466 Based on SoC	Journal on Future Engineering & Technology	May July 2021	Print: 0973- 2632 Online: 223 0-7184	-

10	Implementation of Electronic Nose to Detect LPG Leakage	Journal on Embedded System	Jan-July 2021	Print: 2278- 7895 Online: 232 0-2335	IF:0.957 Citation-01
11	Development of Wireless Sensor Node for Automization in Restaurant Services	International Research Journal of Engineering and Technology (IRJET)	Mar 2021	Print-2395- 0072 Online- 2395-0056	IF7.529
12	Synthesis and Implementation of Polycrystalline Ferrite Material for Smart Sensor Module	Elsevier Editorial System Materials today Proceedings	2021,	2214-7853	IF. 3.2 Citation-05
13	Development of an Embedded System to Measure Soil Parameter	Journal on Embedded System	Dec. 2020	Print: 2278- 7895 Online: 232 0-2335	IF:0.957
14	Development of Smart Electronics System for Realization Smart Home	Journal on Digital Signal Processing	January-June 2020	Print: 2321- 7480 Online: 232 2-0368	IF:0.079
15	Carbon Dioxide Gas Sensing Property of Nickel Substituted Zinc Ferrite	Journal on Material Science(JMS)	Sept 2019	Print: 2347- 2235 Online: 234 7-615X	IF: 1.5 Citation-03
16	Designing of Wireless Sensor Node for Measurement of Light Intensity of Polyhouse Environment	International Journal for Research in Applied Science & Engineering Technology (IJRASET)	Dec 2018	2321-9653	UGC Approved J.No45842 & 47916 IF: 6.887
17	Development of an Embedded System for Measurement of Temperature Based on Polycrystalline Ferrite Material	International Journal of Electrical, Electronics & Computer Science Engineering (IJEECSE)	2018	E-ISSN: 2348-2273 P-ISSN: 2454-1222	Citation-02
18	Comparative Study of Ferrite Based Humidity Sensor for Smart Sensor Module Design	Int. Res. J. of Science & Engineering (IRJSE)	Dec 2017	2322-0015	UGC Approved Journal No.63628 Citation-08
19	Synthesis and Deployment of Nanoferrites to Design Embedded System for Monitoring of Ammonia Gas	International Journal of Advances in Engineering & Technology (IJAET)	March 2017	ISSN: 2249 - 8958	IF 3.43 Citation-06
20	Investigation of Magnesium Substituted Nano Particle Zinc Ferrites for Relative Humidity Sensors	Elsevier Journal : Sensors & Actuators: A. Physical	April 2016	0924-4247	IF 4.6 Citation-63

d. Research Project:

Sr. No.	Name of Funding Agency	Project Title	Funds Received	Month and Year of sanction	Duration of the Project	Status of Project
1.	Tuljaram Chaturchand College of Arts,		1,35,000.00	October 2023	1 Year	Completed

2.	Science & Commerce, Baramati under Teacher research grant scheme RUSA Tuljaram Chaturchand College of Arts, Science & Commerce, Baramati under student research grant scheme	For Power Consumption Optimization Development of IoT Based Smart Waste Management System Using Arduino	15,000/-	2021-22	1 Year	Completed
3.	RUSA Tuljaram Chaturchand College of Arts, Science & Commerce, Baramati under student research grant scheme	IoT based smart embedded system for vehical accident detection	15,000/-	2020-21	1 Year	Completed
4.	RUSA Tuljaram Chaturchand College of Arts, Science & Commerce, Baramati under student research grant scheme	Development of an Embedded System for Monitoring of Environmental Air Pollution	3000/-	2018-19	1 Year	Completed
5.	RUSA Tuljaram Chaturchand College of Arts, Science & Commerce, Baramati under student research grant scheme	Mixed Signal based Programmable System-on-Chip for Monitoring of Environmental Parameters	14,000/-	2016-17	1 Year	Completed

e. Papers presented in Seminar / Conference:

Sr. No.	Name of the Conference/ Seminar	Title of the paper	Date	Level (State/ National/ International)	Name of the Organizer
1	International Conference on "Emerging Trends and Challenges in Electronics and Computing for Sustainable Development"	Smart Embedded System for Automatic Weather Monitoring	22-23 March 2024	International	Organised by Department ELectronics and Computer Science, Yashavantrao Chavan Institute of Science, Satara
2	International Conference on Recent Trends in Materials Science, Synthesis, Characterization and Applications(RTMS-2023)	Development of an Embedded System for Agro-Industrial Applications	2 nd -3 rd January 2023	International	Organized by Post Graduate Department of Physics, T. C. College, Baramati
3	International Conference on Emerging Trends and Challenges in Electronics and Computing (ETEC-2021)	Development of Efficient IoT system for Farming in Rural Area: An Approach to Precision Agriculture	4-6 March 2021	International	Organised by Department ELectronics and Computer Science, Yashavantrao Chavan Institute of Science, Satara
4	International conference on	Synthesis and	29 th -	International	Organised by

	Multifunctional and Hybrid Materials for Energy and Environment (MHMEE- 2020)	Implementation of Polycrystalline Ferrite Material for Sensor Module	31st January 2020		Department of Physics and Astrophysics, Yashavantrao Chavan Institute of Science, Satara.
5	Fifth International conference on Advances in Material Science (Online)(ICAMS- 2020)	Design a Smart Sensor Module for Monitoring H2S Gas based on Polycrystalline Ferrite	6-7 June 2020	International	Post graduate department of Physics, Raje Ramrao Mahavidyalaya., Jath
6	International Conference on Applied Nanotechnology and Nanoscience (ICANN 2017)	Comparative Study of Ferrite Based Humidity Sensor for Smart Sensor Module Design	7 th – 9 th Dec 2017	International	Organized by Post Graduate Department of Physics, T. C. College, Baramati
7	UGC, IEEE India SSCS & CAS Chapters Sponsored National Conference on Emerging Trends in Electronics and Computer Science (ETECS-2015)	Wireless Sensor Network to Ensure Site Specific Variability	13 th - 14 th Februar y 2015	National	Dept. of Electronics, Shivaji University, Kolhapur,
8	UGS Sponsored National Conference on Recent Advances In Embedded Technology (NCRAET-2015)	Design and implementation of Wireless Sensor Network for Electric Power Distribution	29 th – 30 th January 2015	National	Organized by Department of Electronics Ramkrishna Paramhansa Mahavidyalaya, Osmanabad
9	National Conference on Advances in Wireless Sensor Network and Its Application (NCAWSNA-2014)	Wireless Sensor Network: The Solution for Precision Agriculture	12 th and 13 th Decem ber, 2014	National	Shankarrao Mohite ahavidyalaya, Akluj

f. Patents published: 03

Sr. No	Title of Invention	Application /Design Number	Date of Filling	Publication Date	National/ Internatio nal	Status
1.	IoT Based Soil Moisture Level Indicator (Journal No. 41/2023)	394098-001	30/08/2023	12/10/2023	National	Completed Design Patent
2.	Integration of IoT and Artificial Intelligence for Enhanced Crop Production in Greenhouse Application	-	26/04/2024	24/05/2024	International	Completed Design Patent
3.	The Embedded Security Framework for the Industrial Internet of Things (IIOT) and	2022110302 37	26/05/2022	-	National	Ongoing (Indian Invention Patent)

12) Work Experience on Academic Bodies and other:

Sr. No.	Designation/ Position	Duration	Name of Institute / University	Details
1	Member of Board of Studies		T. C. College, Baramati	Electronics
2	NPTEL SPOC, Local Chapter		IIT Madras	SPOC of Tuljaram Chaturchand College Baramati
3	Editorial Board Member		i-manager's Journal on Embedded Systems (JES)	
4	Member of Board of Studies		Mauli Green Army Maharashtra Rajya Paryavaran Samiti.	
5	Member of		International Association of Engineers	(Member Number 317996)

13) Any other Attainment:

- 1.NPTEL Active SPOC Award NPTEL IIT Powai, Mumbai.
- 2. Coordinator, "Two days Workshop on Arduino" on 10th and 11th Feb. 2022.
- 3. Coordinator, online one day National Webinar on "IoT: New Era of Digitization" on
- 4. 08th January 2022.
- 5. Coordinator, Two days online International Webinar on "Innovative Research Trends in
- 6. Green Electronics and Allied Technology" on 25 & 26 February 2021.
- 7. Coordinator, "Two days Workshop on Arduino Programming" on 05 Dec. 2020 to 06 Dec. 2020.
- 8. Research Papers Published in the International Conference, Seminars and Symposia : 11
- 9. Research Paper Published in National Conference and Seminar Proceeding: 40
- 10. Resource Person for Workshop/ Seminars/FDP : 08
- 11. Participation in Workshops and Training Programs : 07
- 12. Research Papers Presented at the State level Avishkar : 04
- 13. Student Research Project : 05
- 14. Judge for Project competition organized by Vidya Pratishthan's Arts, Science & Commerce College, Vidyanagari, Baramati on 05 March Feb 2025.