

One Page Resume

Name of Teaching Staff	Dr. AKSHAY A. PATHARE						
Institute Name	Amrutvahini College of Engineering, Sangamner.						
Designation	Assistant Professor						
Department	Electrical Engineering						
Area of Specialization	Embedded Systems, Industrial Automation, Renewable Energy Systems, Electric Vehicles, IoT, Robotics etc.						
Date of Joining the Institute	12/08/2014.						
Qualifications with Class/Grade	UG (B.E.)	First Class	PG (M.E.)	First with Distinction	Ph.D	Awarded Date: - 06/09/2025	
Total Experience in Years	Teaching	12 Yrs	Industry	Nil	Research	04	
Paper Published (Scopus and SCI)	National	02	International	SCI:00, Scopus: 06,	--	--	
Paper Published in Peer reviewed journal	National	02	International	15	-- --		
Paper Presented in Conferences /National /International	National	01	International	05			
Books/Chapters Published	01						
IPRs	Patents		Copyrights	--	--		
	01		--				
Awards	Excellence in Infrastructure and Laboratory Development Award from Dr. J. Ramachandran Maritime Foundation & AMET University (Chennai, Tamil Nadu, India)						
Professional Memberships	ISTE, IEI, International Association of Engineers (IAENG).						
Interaction with professional institutions	1	Delivered Expert Lecture on Overview and Practical Aspects of PIC Microcontroller in Sir Visvesvaraya Institute of Technology Chincholi Nashik.					
	2	Delivered Expert Lecture on Brief Overview of 8051 Microcontroller in Sir Visvesvaraya Institute of Technology Chincholi Nashik.					
	3	Appointed as Paper Setter for B.Tech Marine Engineering end semester Examinations December 2017 (Subject Electrical Machines II- MET34) in Maharashtra Academy of Naval Education and Training MIT Art Design & Technology University Pune					
	4	Appointed as an External Examiner for End semester Practical Examination Nov/Dec 2017 for subject Introduction to Electrical Engineering (ES102) in MIT School of Bioengineering Sciences and Research.					
	6	Delivered a session on Energy Conservation & Electrical Safety to 12 th Science students of Haribhau Sangale Yashwant Madhyamik Uchyamadhyamik Widyalay Nimon Sangamner.					
	5	Delivered Guest Lecture on Microcontroller and its Applications in Vamanrao Ithape Polytechnic, Sangamner.					
	7	Conducted 2 days workshop on Electrical Circuits and Network Theorem in Samarth Polytechnic Belhe Tal Junnar Dist Pune					
	8	Appointed as External Senior Supervisor at Sangamner Nagarpalika Arts, D J Malpani Commerce and B N Sarda Science College Sangamner					

		9	Conducted Mock Interview of BE Automation & Robotics Students for Placement	
		10	Conducted Hands-on Workshop on 8051 microcontroller & its Applications in Sapkal College of Engineering Nashik	
		13	Appointed as Session Chair for Second International Conference held on 29 - 30 December 2025, organized by Pravara Rural Engineering College, Loni, Ahilyanagar, Maharashtra, India in association with Technology Research and Innovation Centre, Pune, India Accra Technical University, Accra, Ghana Academy of Nanotechnology and Waste Water Innovations, South Africa.	
		11	Served as a Jury Member for the Katha Kathan Competition Organized by Department of Computer Engineering	
		12	Delivered an Expert Session of LV Switchgears to First Year Diploma Students in Amrutvahini Polytechnic Sangamner.	
		14	Appointed as Paper Setter & Examiner for Switchgear and Protection Paper-Switchgear and Protection (403148) , SEM VIII Appt NO. 26131247	
Patent (National /International):	Sr. No.	Details of Patent	Date of Publication	
	1	Type of Patent -Utility model. () Title- “An IoT-based sy stem for monitoring and bidirectional control of renewable energy generation and grid measurement processes for smart homes.” Authors – 1. Akshay Pathare, Ahilyanagar, Maharashtra, IN; 2. Gaurav Choudhary, Jaipur, Rajasthan, IN; 3. Gaikwad Rahul, Ahilyanagar, Maharashtra, IN; 4. Gore Deoman, Yeola, Maharashtra, IN; 5. Hadpe Nilesh, Nashik, Maharashtra, IN; 6. Kadlag Sunil, Ahilyanagar, Maharashtra, IN; 7. Kirtane Prasad, Pune, Maharashtra, IN; 8. Pawar Shekhar, Ahilyanagar, Maharashtra, IN; 9. Satpute Sunita, Ahilyanagar, Maharashtra, IN; 10. Sethi Dinesh, Jaipur, Rajasthan, IN; 11. Swaroop Rupayali, Jaipur, Rajasthan, IN Patent – International (Germany)	17/12/2025.	
Number of Publications (National /International Peer Reviewed Journal):	Sr. No.	Details of Publication	Scopus/SCI/UGC Care	
	1	Pathare, A.A., Sethi, D. Development of IoT-enabled solutions for renewable energy generation and net-metering control for efficient smart home. Discov Internet Things 4, 11 (2024). https://doi.org/10.1007/s43926-024-00065-6	Scopus	
	2	Pathare, A.A., Singh, R.P. & Sethi, D. An IoT-Enabled Smart Net-Metering System for Real-Time Analysis of Renewable Energy Generation in MATLAB/Simulink. J. Inst. Eng. India Ser. B 105, 1583–1598 (2024). https://doi.org/10.1007/s40031-024-01052-9	Scopus	
	3	Pathare, A. A. & Sethi, D. (2025). Review and Study of Smart Net Meter Unit for Solar Roof Top Photo-Voltaic (SRTPV) Systems Enabled With Internet of Things (IoT) for EV Infrastructure. In G. Fotis, S. Gupta, T. Varshney, S. Dhar, & M. Gulzar (Eds.), Modern Computing Technologies for EV Efficiency and Sustainable Energy Integration (pp. 317-340). IGI Global Scientific Publishing. https://doi.org/10.4018/979-8-3373-2382-4.ch012	ESCI	
	4	Pathare, A.A., Sethi, D., "A review and implementation study of IOT-enabled smart net meter units for solar rooftop PV systems" Sigma Journal of Engineering and Natural Sciences Volume 45 Issue 2, (pp. 348-357)DOI: 10.14744/sigma.2025.00138.	Scopus	
	5	Akshay Pathare et al (2023), “RFID Based Smart Vehicle Presidency” International Journal of Advanced Research in Science, Communication and Technology, pp 304-309 Volume 02, Issue 04.	UGC Care	
	6	Akshay Pathare et al (2023), “A Study and Review on Agile – Controlled Solar Metering System using IOT and Ubidots” International Journal of Advanced Research in Science, Communication and Technology, pp 1546-1550 Volume 03, Issue 02.	UGC Care	
	7	Akshay Pathare et al (2022), “ Detection of False-reading Attacks In Smart Grid Net-Metering System” International Research Journal of Modernization in Engineering Technology and Science pp 160-165 Volume 05, Issue 03.	UGC Care	
	8	Akshay Pathare et al (2022), “SMART I ROBOT FOR HEALTHCARE SYSTEM BY USING SW FRAMEWORK AND IOT” International Research Journal of Modernization in Engineering Technology and Science, pp 170-175 Volume 01, Issue 01.	UGC Care	

		9	Akshay Pathare et al 2021, “IOT BASED ADVANCE DIGITAL WATER METER AND WASTAGE CONTROLLER” International Journal of Advanced Research in Science, Communication and Technology, , pp 1740-1745 Volume 02, Issue 01.			UGC Care
		10	Akshay Pathare et al (2021), “A study and Review of Smart Electricity Metering Device for Utility Users using IoT”, International conference on Emerging Trends and Innovation in Engineering and Science, pp 1120-1125 Volume 01, Issue 01.			UGC Care
		11	Akshay Pathare et al 2020, “Battery Management System using PWM Charge Controller”, International Research Journal of Engineering and Technology, pp 120-125 Volume 03, Issue 02.			UGC Care
		12	Akshay Pathare et al 2019, “ Integrated Smart highway for efficient utilization of Renewable Energy” International Research Journal of Engineering and Technology pp 1163-1169 Volume 04, Issue 03.			UGC Care
		13	Akshay Pathare et al (2016), Reduction in Power Fluctuation when PV modules are connected to Grid by using PI controllers, International Research Journal of Engineering and Technology pp 163-170 Volume 04, Issue 03.			UGC Care
National /International Peer Reviewed Conferences:		Sr. No.	Author/s	Title of paper with year of publication	Name of Conference	
		1	Akshay Pathare	Unequally Spaced Grounding Grid Designed from Equally Spaced Grounding Grid for 220/132 kV Substation.	2018 International Conference On Advances in Communication and Computing Technology (ICACCT), Sangamner, India, 2018, pp. 114-116, doi: 0.1109/ICACCT.2018.8529430.	
		2	Akshay Pathare	Artificial Intelligence Application Used In Education	ICEST-2K24 [International Conference on Engineering, Science and Technology] In Association with International Journal of Scientific Research in Science, Engineering and Technology Print ISSN - 2395-1990 Online ISSN : 2394-4099 (www.ijsrset.com)	
		3	Akshay Pathare	Agile – Controlled Solar Metering System using IOT and Ubidots	ICEST-2K24 [International Conference on Engineering, Science and Technology] In Association with International Journal of Scientific Research in Science, Engineering and Technology Print ISSN - 2395-1990 Online ISSN : 2394-4099 (www.ijsrset.com)	
Number of Projects (completed/ in progress):		Sr. No.	Title of Project	Amount Granted	Granting Agency	Period
		1	10 K W Solar Rooftop Photo Voltaic plant	5,00,000	SPPU,Pune	2 Years
		2	400KW Solar Rooftop Photo Voltaic plant	1,48,38,500	AVCOE Finance	-
		3	Sewage Treatment Plant 0.4 MLD	28,00,000	AVCOE Finance	-
		4	Biogas plant of capacity 10m³	4,00,000	AVCOE Finance	-
		5	5 kW Hybrid Solar and Wind System	12,00,000	AVCOE Finance	-
Number of Books/Book Chapter published/under publication:		Sr. No.	Title of Book/Book Chapter	Discipline	Publisher with year	ISBN/ISSN No.
		1	Pathare, A. A. & Sethi, D. (2025). Review and Study of Smart Net Meter Unit for Solar Roof Top Photo-Voltaic (SRTPV) Systems Enabled With Internet of Things (IoT) for EV Infrastructure. In G. Fotis, S. Gupta, T. Varshney, S. Dhar, & M. Gulzar (Eds.), Modern Computing Technologies for EV Efficiency and Sustainable Energy Integration (pp. 317-340). IGI Global Scientific Publishing. https://doi.org/10.4018/979-8-3373-2382-4.ch012	Electrical	2025	SBN13: 9798337323824ISBN N13 Softcover: 9798337323831EIS BN13: 9798337323848
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