

Faculty Profile

- **Faculty Name** : **Rahul Sukhadeo Pukale**
- **Designation** : **Assistant Professor**
- **Department** : **Electrical Engineering**
- **Mobile No.** : **9421403181**
- **Email Id.** : **rsp@amgoi.edu.in**

• Educational Qualification

Sl.	Degree	University	Class
1	B.E.- Electrical Engineering	Shivaji University, Kolhapur, Annasaheb Dange College of Engineering & Technology, Ashta	First Class with Distinctions
2	M.Tech.- Electrical Engineering (Power System)	Shivaji University, Kolhapur, Rajarambabu Institute of Technology (An Autonomous Institute), Rajaramnagar, Islarmpu.	First Class with Distinctions
3	PhD (Pursuing)	National Institute of Technology Goa	

• Professional experience: -

Total experience in years:-12.5 Years

Teaching: - 12.5

Industrial: -00

Research: -00

Sl.	Organization	Post	Period
1	Ashokrao Mane Group of Institutions, Vathar	Assistant Professor	16 January 2014 to Till Date
2	Someshwar Polytechnic College Someshwarnagar	Lecturer	16 August 2013 to 10 January 2014

➤ Subject Taught:-

Undergraduate Subjects			
1	DC Machine and Transformer	2	Electromagnetic and Electrical Circuits
3	Network Analysis and Synthesis	4	Advanced Switchgear and Protection
5	Basic Electrical Engineering	6	Electrical Technology
7	Electrical Engineering Materials	8	Electrical Machine-I
9	Electrical Machine-II	10	Energy Audit and Conservation
Postgraduate Subjects			
1	--	2	---

- **Project Work at U.G.:-** Hybrid Power Generation
- **Project Work at P.G.:-** Maximum Power Point tracking by using hill climb search algorithm for Wind system.
- **Research Area of Interest: -** Renewable Energy Systems, Grid connected/Stand-Alone PV Systems, Power Electronics, Power system.
- **Paper Presented in National & International Conference: -**

Sl.	Title	Name of Conference & Institute	Type* (NC/IC)	Date
1	Performance Evaluation and Experimental Validation of Zig-Zag PV Array Reconfiguration Under Partial Shading Conditions	2025 IEEE 4th International Conference on Smart Technologies for Power, Energy and Control (STPEC), Goa, India	IC	10-13 December 2025
2	Benzene-Inspired Reconfiguration of PV Arrays for Efficient Power Extraction with Minimal Cross-Ties under Partial Shading Conditions	International Conference on Integrated Research and Sustainable Development (ICIRSD - 2025)	IC	Dec 2025
3	“Modelling and Simulation of Dynamic Voltage Restore”	IEEE International Conference on Innovations in Green Energy and Healthcare Technologies, Tamil Nadu, India.	IC	16th to 18th March 2017.
4	“Automatic Meter Reading of Electricity by Using Power Line Communication”	IEEE International Conference on Innovations in Green Energy and Healthcare Technologies, Tamil Nadu, India	IC	16 th to 18 th March 2017.
5	Optimal Power Flow Based on PSO	International conference on CIDM, PP109-121, India	IC	11th Dec 2015
6	“Optimal Design Configuration Using HOMER”	International Conference on Emerging Trends in Engineering, Science and Technology PP499-504	IC	2015

7	Simulation for Control Strategy of Power Converter in Wind Energy Conversion System”	National Conference on “Electronics for Rural Development” NCETC 13 Sakharale (Islampur) Maharashtra, India.	NC	7th - 8th June 2013
8	“Data Collection of Variable Wind Speed to Study the Change in Power and Power Coefficient”	IEEE International Conference on Energy Efficient Technologies for Sustainability, Tamil Nadu, India	IC	10th to 12th April 2013.
9	“Simulation for Power Generation Related to Variable Wind Speed Using Matlab”	IEEE International Conference on Energy Efficient Technologies for Sustainability, Tamil Nadu, India	IC	10th to 12th April 2013.

*NC- National Conference

IC- International Conference

➤ **Paper Published in National & International Journal: -**

Sl.	Title	Name of Journal	Type* (NJ/IJ)	Date	ISSN No.
1	Modelling and Analyzing the Performance of Series-Parallel Ladder (SPL) PV Arrays Under Various Partial Shade Scenarios	Transactions of the Indian National Academy of Engineering	IJ	25 March 2025	https://doi.org/10.1007/s41403-025-00525-7
2	Small Scale Horizontal Wind Turbine System using DC- DC Boost Converter	International Research Journal of Engineering and Technology	IJ	2 Feb 2016.	
3	Small Design Implementation and Study of Electrical Machine Laboratory Experiments	International Journal of Innovative Research Journal in Electrical, Electronics, Instrumentation and Control Engineering	IJ	3rd March 2016	

* NJ- National Journal

IJ- International Journal

- **No. of Project Guided at U.G. Level:-** 17
- **No. of Project Guided at P.G. Level:-** 00
- **No. of Certified Courses completed:-** 03
- **Expert Lectures Delivered as a Resource Person:-00**

➤ **Patents: -**

Sl.	Title	Application Number
1	Wireless remote control for a bomb diffusing robot	6530424
2	Solar-powered spray pump for agricultural and domestic purposes	435678-001

Sl.	Name of STTP/FDP/Workshop/Conference	Institute	Date
1	NPTEL course on Design of Power Electronic Converters	IIT Guwahati	Feb-Apr 2026

➤ **STTP/FDP/Workshops/Attended/Participated: -**

Sl.	Name of STTP/FDP/workshop	Institute	Date
1	Smart Grids and IT: Facilitating Electric Vehicle Integration into Renewable Energy Sources	NIT Raipur	17-27 March 2025
2	Two-week workshop on “Electrical power system”	IIT Kharagpur held at SGI Atigare	12th June 2017-15th July 2017
3	Workshop on “How to write a book and Access of E-Resource”	Ashokrao Mane Group of Institutions, Vathar under lead college activity SUK	16th Feb 2017

4	One-day workshop on “Research Methodology & Patent Filing”	Ashokrao Mane Group of Institutions, Vathar under lead college activity SUK	7th Jan 2017
5	Two-day workshop on “Electrical Machine Design using Auto CAD”	Ashokrao Mane Group of Institutions, Vathar under lead college activity SUK.	29th & 30th Dec. 2015
6	One-day faculty Development workshop on “Accreditation By NBA-June 2015 format”	Ashokrao Mane Group of Institutions, Vathar Department of Electronics & Telecommunication Engineering under lead college Activity SUK.	8th Nov. 2015
7	One-day workshop on “Energy Audit”	Ashokrao Mane Group of Institutions, Vathar Department of Electrical Engineering AMGOI, Vathar-	21st Jan 2015
8	One day work shop on “Overall personality Development”	Ashokrao Mane Group of Institutions, Vathar Department of Electrical Engineering AMGOI, Vathar- under lead college activity Shivaji University Kolhapur	18th Feb. 2015
9	One-day workshop on “Role of teacher in knowledge management & evaluation process of NBA accreditation”	AMGOI, Vathar-Tarf-Vadgaon, Kolhapur- 416112, Maharashtra	2nd Feb 2014.

➤ **Programs Organized: -**

Sl.	Name of Program	Institute	Date
1	IPR & Patents: Fueling Research and Startups	AMGOI Vathar	05 th April 2025
2	Three Days Faculty Development Programme (FDP) On Crafting Research Excellence: A Comprehensive Guide to Paper and Proposal Writing	AMGOI Vathar	11 -13 Sep 2024
3	Five-day FDP on Product Design Engineering	DBATU held at AMGOI Vathar	20 th -24 th Dec 2018

➤ **Special Achievements: -**

- Best Paper Award received at the 2025 IEEE 4th International Conference on Smart Technologies for Power, Energy and Control (STPEC 2025), organized by the Department of Electrical and Electronics Engineering, National Institute of Technology (NIT) Goa, held from 10–13 December 2025, in recognition of outstanding research contribution.

- **Book Published: -00**
- **Departmental Responsibilities:** -NBA Coordinator, NAAC Coordinator, IQAC Coordinator, Project Coordinator, Alumni Coordinator.
- **Other Experience/Responsibilities If Any:-Associate Dean R & D**
- **Social Contribution If Any:** - Donated Blood
- **Professional Affiliation:** -
- **Professional Membership If Any:** -