



**Mrs. Nayan Jaywant Kotmire**

B.E.,M.E.[Control System]

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**Present position:** Assistant Professor, School of Engineering and Technology, Shivaji University, Kolhapur

**Research fields:** Control System, power Electronics

**Academic Details:**

<b>2009</b>	M.E. (Control System), Shivaji University Kolhapur, India.
<b>2003</b>	B.E. (Electrical Engineering), Shivaji University Kolhapur, India.

**Work Experience:**

Institute	Department	Designation	From Date	To Date
Premalatai Chavan Polytechnic, Karad	Electrical	Lecturer	01/06/2003	30/04/2006
D.Y.Patil Polytechnic, Kolhapur	Electronics	Lecturer	16/06/2006	28/02/2007
D.Y.Patil College of Engg. And Technology, Kolhapur	Electronics	Lecturer	20/08/2007	31/07/2008
Department of Technology, Shivaji University, Kolhapur	Technology	Lecturer	22/08/2008	2009
Department of Technology, Shivaji University, Kolhapur	Technology	Assistant Professor	07/06/2010	Till Date

**Patent Filed: 01**

**TITLE OF THE INVENTION:** Solar Powered real time water quality monitoring and Contamination Detection Device

**Names of the Inventors:** Mrs.Nayan Jaywant Kotmire, Dr. Harshwardhan Chadrakant Pandit

Patent application No. 491136

Patent application filed on 14/02/2026

**Research papers published in International journals:**

Sr. no	Title	Journal
01	Review on the Thermographic analysis of PV panels/systems using the infrared thermal cameras	International Journal of Scientific and Applied Science
02	A Review on power quality Improvement of off-grid connected solar photovoltaic power Plant	International Journal of Scientific and Engineering research
03	A review Of power quality issues in Electrical power system	International Journal of creative research thought
04	Review of Three level Universal Electric Vehicle Charger Based on Voltage- Oriented Control	International peer Reviewed/Refereed Multidisciplinary Journal
05	Charging Systems of Electric Vehicle: A Review	AGIS SCIENCE JOURNAL, Vol.10, issue 12, 2023.
06	Battery charging System for Electric Vehicle	Indonesian Journal of Electrical Engineering and Computer Science" Vol.36, No.3, Dec.2024, PP.1400-1408.
07	Deep Learning Based PWM Control for Electric Vehicle Charging System	Power System Technology Volume 49, No. 1 ,2025, Pages: 1761–1780 , <a href="https://doi.org/10.52783/pst.1730">https://doi.org/10.52783/pst.1730</a>

08	Analysis and Design of a Buck Converter for Electric Bike	Indian Society for Technical Education, ISSN: 0971-3034 Volume 48 , No.1 , 2025 , Pages 367-372 Website : <a href="http://www.isteonline.in">www.isteonline.in</a>
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### Presentation at National/International Conference:

01	Prospects of Renewable Energy in India	ances in Mechanical Engineering
02	Design and Development of Harmonic Distortion Filter and Protection System for Power Quality Improvement of Off-Grid Connected 2.5 kW Solar Photovoltaic Power Plant	IDAD2018 Conference, Vel Tech Chennai
03	A Review on Non-isolated DC-DC Converter for electric vehicle Applications	7 <sup>th</sup> International Conference on Engineering Research and Innovations
04	Paper: Recent Development on Charger of an Electric Vehicle.	International Conference on Frontier Areas of Science and Technology (ICFAST-2023)

### Membership of Profession Bodies:

- The INDIAN Society for Technical Education
- The Institute of Engineers membership

