

Name: Prof. Jivan B. Patil

Designation: Assistant Professor

Qualification: PhD*(EE), M.E.(Electrical Engineering)

Age: 36 Years

Experience: 14 Years



E-mail: jivanpatil@orchidengg.ac.in

Area of Interest: Power Quality Issues, FACTS, Renewable Energy Sources

Publications:

1. International Conference: 04
2. National Conference: 02
3. International Journal: 15 (**03 Springer Publication**)
4. National Journal: -Nil

Subject Taught:

- 1) Basic Electrical Engineering
- 2) Fundamental of Electrical Engineering
- 3) Electrical Technology
- 4) Electrical Power Generation
- 5) Electrical Circuit and Network
- 6) Power Plant Engineering
- 7) Environmental Studies
- 8) Electrical Engineering
- 9) Electrical Machine Design
- 10) Signals and Systems
- 11) Testing and Maintenance of Electrical Equipment
- 12) Project Management
- 13) Extra High Voltage AC Transmission
- 14) Energy Audit and Conservation
- 15) Electrical Installation and Estimation
- 16) High Voltage Engineering
- 17) Entrepreneurship Essentials
- 18) Renewable Energy Systems
- 19) Application of Power Electronics to Power System
- 20) Electrical and Electronics Measurement
- 21) Flexible AC Transmission System
- 22) Testing, Maintenance and Commissioning of Electrical Equipment
- 23) Universal Human Values II
- 24) Engineering Operations and Project Management

Achievements:

- 1) Secured 1st Rank in University in M.E.
- 2) Secured 2nd Rank in University in B.E.
- 3) Gold Engg and Tech (AAVISHKAR 2024) at Zonal Level
Title- Implementation of Dual- Mode Automatic Wheelchair cum Stretcher

UK Design Patent Publication Details:

Title: Real-Time Electric Vehicle Route Optimization Device

Application date: 27th February 2026

Grant date: 17th March 2026

Publication date: 18th March 2026

Design number: 6509300

ISTE Life Membership Details:

Life Member of the Indian Society for Technical Education (ISTE)

Membership Date: 06/04/2026

Membership No.: LM – 145761

Tracking Id.: 114419055009

Rt.no.: LM-O-10300

Project Guided:

- 1) Design and Development of Relay for Automobile Sector
- 2) Design and Development of Electricity Billing System
- 3) Modelling and Design of Car Parking System using Arduino
- 4) Design of Wireless Electric Vehicle Charging System
- 5) Design and Software Development of Vaccine Management System using JAVA
- 6) Dual Axis solar Tracking System using Arduino
- 7) Automated 3 wheeler for physically challenged people
- 8) Solar Sprayer as an Agricultural Implementation
- 9) Crop Protection System using advanced arduino and IOT BLYNK APP Technology
- 10) Design and Planning of Electrical Services Using AUTOCAD and REVIT
- 11) Designing of Active Phase Selector With GSM Module
- 12) Design and Implementation of Solar Powered Dewatering in Mining Operations
- 13) Smart Agriculture Farming (Irrigation)
- 14) Automatic Water Pump Controller
- 15) AI-Driven Integrated Defense Systems for Modern Threat Mitigation

Conferences / Publications:

- Research paper published on title, “Quality Inspection and Testing Of Industrial Relays” in International Research Journal of Modernization in Engineering Technology and Science. e-ISSN: 2582-5208, Volume:08/Issue:05/May-2026
- Research paper published on title “Design and Planning of Electrical Services Using AUTOCAD and REVIT” in International Research Journal of Modernization in Engineering Technology and Science. e-ISSN: 2582-5208, Volume:08/Issue:05/May-2026
- Research paper published on title “Designing of Active Phase Selector with GSM Module” in International Research Journal of Modernization in Engineering Technology and Science. e-ISSN: 2582-5208, Volume:08/Issue:01/January-2026
- Research paper presented on title “Design and Development of Vaccine Management System to Enhance Public Health” in 5th International Conference on Advanced Technologies for Societal Applications 2024 organized by SVERI's College of Engineering and Research, Pandharpur from 13/12/24 to 14/12/2024 **(Springer Publication)**
- Research paper presented on title “Power Quality Enhancement by PV-Hybrid Series Active Power Filter (HSAPF) controlled with Fuzzy Type-1, Type-2 Filter” in 5th International Conference on Advanced Technologies for Societal Applications 2024 organized by SVERI's College of Engineering and Research, Pandharpur from 13/12/24 to 14/12/2024. **(Springer Publication)**
- Research paper presented on title “Hand Gesture Controlled Smart Wheelchair” in 5th International Conference on Advanced Technologies for Societal Applications 2024 organized by SVERI's College of Engineering and Research, Pandharpur from 13/12/24 to 14/12/2024. **(Springer Publication)**
- Research paper presented in Virtual mode on title “IOT Based Blind Stick With Voice Notification For Physically Challenged People” in the National Conference on Electrical Sciences – 2023 conducted by ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES (Autonomous) New Boyanapalli, Rajampet, Annamaiah (Dt), Andhra Pradesh, India – 516 126
- Research paper published on title “IOT Based Blind Stick With Voice Notification For Physically Challenged People” in Journal of Electronics Information Technology Science And Management ISSN NO : 0258-7982
- Research paper presented & published on title “Open-Circuit Fault Diagnosis in VSI by Simple Direct Current Method” in Proceedings of National Conference on Recent Trends in Science and Advances in Engineering Organized by Fabtech Technical Campus, College of

Engineering & Research, Sangola with International Journal of Innovations in Engineering Research and Technology [IJIERT] ISSN: 2394-3696 on date 30th June 2022.

- Research paper published on title “Optimal Placement of Distributed Generation for Loss Reduction in Distribution System” Published in International Journal of Innovations in Engineering Research and Technology, March 2021
- Research paper published on title “FCS-MPC Dynamic Reactive Power Control Using Hybrid Active Power Filter” Published in International Journal of Innovations in Engineering Research and Technology, May 2020.
- Research paper published on title, “Harmonic Minimization Using Shunt Active Filter by Using Different Controllers” Published in International Journal of Innovative and Emerging Research in Engineering, April 2017.
- Research paper published on title, “Instantaneous Power and Current Strategies for Current Harmonics Cancellation Using Shunt Active Power Filter With PI and Fuzzy Logic Controllers” Presented at ICIEEE-15, Pune, India.
- Review paper published on title “Instantaneous Power and Current Strategies for Current Harmonics Cancellation Using Shunt Active Power Filter With PI and Fuzzy Logic Controllers” Published in journal IJIERT-15.
- Presented a paper in Second National conference on Emerging Trends in Electrical & Electronics Engineering on “Transmission loss minimization using Advanced Unified Power Flow Controller” at VVP Solapur in Feb 2014.

STTP / Workshops/FDP’S/Webinar:

- Participated & completed the National-Level One Week Online Faculty Development Program (FDP) on “Industry 4.0– Oriented PLC-Based Smart Automation” organized by the Department of Electronics and Computer Engineering (ECE) and Department of Electrical Engineering (EE), Shree Siddheshwar Women’s College of Engineering, Solapur, held from 3rd February 2026 to 7th February 2026.
- Completed the One Week Faculty Development Program on, “ADVANCES, CHALLENGES AND RESEARCH TRENDS IN ELECTRICAL VEHICLE TECHNOLOGY” approved by the Indian Society for Technical Education (ISTE) and organized by Department of Electrical Engineering & R & D cell, SHRI BALASAHEB MANE SHIKSHAN PRASARAK MANDAL'S ASHOKRAO MANE GROUP OF INSTITUTIONS (AN AUTONOMOUS INSTITUTE) Vathar Tarf Vadgaon from 27th Jan 2026 to 31st Jan 2026.
- Participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Integrating AI & ML for Sustainable Electric Vehicle Development and Smart Mobility at D.K.T.E. SOCIETY'S TEXTILE & ENGINEERING INSTITUTE from 05/01/2026 to 10/01/2026
- Participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Engineering the Future of Mobility 5.0 at N. B. NAVALE SINHGAD COLLEGE OF ENGINEERING, Solapur from 15/12/2025 to 20/12/2025
- Completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Next-Gen Smart Microgrids: Technologies & Challenges in Renewable Energy Integration at ANNASAHEB DANGE COLLEGE OF ENGINEERING AND TECHNOLOGY, ASHTA from 01/12/2025 to 06/12/2025.
- Participated in the one-week online Faculty Development Program on “Applications of AI to Power Systems” organized by the Department of Electrical & Electronics Engineering, Avanthi Institute of Engineering & Technology (Autonomous), Makavarapalem, Anakapalle District, AP. Held from 01-12-2025 to 06-12-2025.
- Participated in One-week National Level Online Faculty Development Programme on “Advancements in Battery Technology and Management for Sustainable E-Mobility” from 16-06-2025 to 20-06-2025 organized by the Department of Electrical and Electronics Engineering, Mahatma Gandhi Institute of Technology (Autonomous), Gandipet, Hyderabad.
- Participated in ISTE Sponsored 6 Days Faculty Development Program on “Recent Trends in Electrical & Electronics Engineering” held virtually using Google Meet platform organized by Department of Electrical Engineering of Global Institute of Science and Technology, Haldia, India from 21st of April, 2025 to 26th of April, 2025.

- Participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on From Ideas to Innovation: A Patent Landscape Approach to Science and Technology Correlations at NAGESH KARAJAGI ORCHID COLLEGE OF ENGINEERING AND TECHNOLOGY, SOLAPUR. From 22/01/2025 to 28/01/2025.
- Completed ISTE approved One Week Online Faculty Development Program on “Innovative Approaches of Artificial Intelligence and Machine Learning for Healthcare and Agriculture” during 20th September 2024 to 04th October 2024 organised by Vidarbha Youth Welfare Society’s Prof Ram Meghe College of Engineering & Management, Badnera-Amravati.
- Participated in One Week online Short Term Training Program (STTP) on “Emerging Trends on Control and Automation at Present Scenario” organized by Department of Electrical Engineering, Dream Institute of Technology, Kolkata
- Participated in A One-week National Level Online Faculty Development Programme on “Aiming Towards 3D’s in Electrical Engineering” from 11-03-2024 to 15-03-2024 organized by the Department of Electrical and Electronics Engineering, Mahatma Gandhi Institute of Technology, Gandipet, Hyderabad.
- Participated in ISTE Certified FDP on "Electrical Vehicles" from 15th to 20th, January 2024 ,Organized and Conducted by Department of Electrical Engineering, ATS Sanjay Bhokare Group of Institutes, Miraj
- Participated and successfully completed the 5-Days National Level Online Faculty Development Programme on “Recent Trends in Teaching and Learning Pedagogy (multidisciplinary)” held during 16/01/2024 - 20/01/2024 jointly organized by Department of Computer Science & Engineering, Department of Basic Sciences & Humanities in association with ISTE Faculty Chapter YTC, Satara.
- Completed the AICTE-ISTE approved Orientation/Refresher Programme on “Innovative Teaching Learning Methods” held during 22-04-2021 to 28-04-2021 organized by VPKBIET, Baramati, Pune
- Attended online training on “Energizing The Grid with Solar Energy" Conducted by Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore (M.P.) on 11th August 2020
- Attended Webinar on “Indian culture beyond boundaries” organized by JAIN Deemed-to-be University, Jakkasandra Post, Kanakapura Taluk, Bangalor on 8 th August 2020
- Attended Webinar On "ELECTRICAL VEHICLE TECHNOLOGY- An outlook (Industry Perspective)" organised by RAJALAKSHMI ENGINEERING COLLEGE An Autonomous Institution Rajalakshmi Nagar, Thandalam on 4th August 2020
- Attended FDP on "Modern Approach In Electrical Engineering" organized by MGM Poly. Aurangabad from 27-07-20 to 31-07-20.
- Attended Webinar on "Recent trends in power management strategies for optimal operation of distributed energy resources in Micro grids" organized by Mahatma Gandhi Institute of Technology Hyderabad on 28th July 2020
- Attended Webinar on Energy Scenario Updates & Energy Conservation organised by NBN Sinhgad School of Engineering, Ambegaon (Bk.), Pune – 411041 on 4th June 2020
- Attended A live Webinar on “Effective role of teachers in Enhancing standards of Technical Education” Organized by the Department of EEE. Geethanjali Institute of Science and Technology, Nellore on on 6th June 2020
- Attended Webinar on "Research opportunities in agricultural pumping-Electricity conundrum in India" Organized by Nanasaheb Mahadik College Peth on 8th June 2020
- Attended Webinar on engineering competetive exams GATE AND ESE by Arun Kumar, IIT Kharagpur on 22nd June 2020.
- Attended 4 day FDP on "Technology Towards Comman Man" organized by Sri Manakala Vinayagar Engineering college Puducherry from 10-06-20 to 13-06-20
- Attended Online webinar "Emerging Power Electronics Converters and Technologies for E-Mobility Adaptations" organized by the "Department of Electrical & Electronics Engineering" of T.J.S Engineering College
- Attended Two-days” workshop on “Virtual Lab Use for Electrical Machines and PLC ” from 15/06/2020 to 16/06/2020 by SVERI Polytechnic Pandharpur
- Attended Webinar on Renewable Energy - Opportunities & Challenges Post COVID-19 by NK Orchid College of Engg. & Tech. Solapur on 17th June 2020
- Attended the webinar on “Question Paper Settings: OBE” organized by Electrical Engineering Department, ADCET, Ashta on 21 st June 2020
- Attended FDP on "e-learning: Creating & Managing e-content" organised by V.V.P. Institute of Engg. & Tech., Solapur from 22nd June 2020 to 24th June 2020

- Attended Online Workshop on “NAAC - Step by Step Process & Procedure” by Dr. R. VENKATESH BABU, VB ACADEMY on 12th July 2020
- Attended Webinar on “Emerging Trends in Transformer Protection” by Mr.S.Linga Karthik, Deputy Manager, Easun Tap Changers(P) Ltd, organised by Francis Xavier Engineering College, Tirunelveli on 18th July 2020
- Attended FDP on "Virtual Training for Renewable Energy Systems" from 28-05- 2020 to 30-05-2020
- Attended STTP on "Advanced Optimization Tools and Techniques for Researchers and Engineers" from 23-05-20 to 27-05-2020
- Attended 2 days Faculty Development Training Programme on “Research Methodology” at Fabtech Technical Campus, College of Engineering & Research, Sangola in April 2018
- Attended 1 day workshop on “Effective use of ICT tools for recording of lectures – A Practical Approach” at NKOCET, Solapur on 23rd Feb 2018

NPTEL Certified Course:

- 1) Completed 12 weeks NPTEL online Course (July 2025) of Subject “Maintenance and Testing of Electrical Machines” conducted by Indira Gandhi National Open University, New Delhi with 70%
- 2) Completed 12 weeks NPTEL online Course (Jan-April 2023) of Subject “NPTEL course on “NBA Accreditation and Teaching and learning in Engineering (NATE)” conducted by Indian Institute of Science (IISc), Bangalore.
- 3) Completed 8 weeks NPTEL online Course (July-October 2022) of Subject “Accreditation And Outcome Based Learning” conducted by Indian Institute of Technology (IIT), Kharagpur with 76% (Silver Performance).
- 4) Completed 12 weeks NPTEL online Course (Jan-April 2019) of Subject “Principles of Signals Systems” conducted by Indian Institute of Technology (IIT), Kanpur with 60% (Elite Performance).