

RESUME

Personal Information

Name : **Mrs Rajashree Umesh Patil**
Designation : Head of Department
Department : Electrical
Vidya Prasarak Mandal's College of
Engineering/Polytechnic,
College Campus, Thane(W)-400601

Educational Qualification

- ❖ Perusing PhD from SPCE Andheri Mumbai University
- ❖ MTech - Electrical Eng. Specialization in Power System from VJTI, Matunga Bombay University of Mumbai (2015) SPI-9.3 CPI-8
- ❖ B.E. Electrical Eng. from Walchand college of Eng. Sangli, Shivaji University (1996) -Distinction.
- ❖ D.E.E Electrical from K.J.Somaiya Polytechnic, Vidyavihar MSBTE (1993)- Distinction

Experience

- ❖ Working as a Head of Department June 2023 onwards in VPM's Polytechnic Thane
- ❖ Promoted as a selection grade in June 2023
- ❖ Worked as a In charge of EPS dept. 24 March 2021 to May 2023 in VPM's Polytechnic Thane
- ❖ Promoted as a Senior Lecturer June 2008 to 2021 in VPM's Polytechnic Thane
- ❖ Promoted as a Lecturer (permanent basis) in Electrical Power Systems Department June 1997 to May 2008 in VPM's Polytechnic Thane
- ❖ Joined as a Lecturer (Adoch basis) in Electrical Power Systems Department June 1996 to May 1997 in VPM's Polytechnic Thane

Presented papers in conferences

- ❖ Presented paper on 'Net Metering –Evolution in Solar PV System' in National conference on Advanced Technologies in Renewable Energy Technologies' held on 22 nd Dec 2017 at VPM's Polytechnic Thane
- ❖ Presented Poster paper on M-tech Project 'Detection of Abnormal Conditions of Induction Motor by using ANN' Poster paper presentation Competition in 16th National conference on 'Next Generation Electronics' at VPM's Polytechnic Thane & received first prize for poster presentation.
- ❖ Presented paper on 'Restructuring of Power System' in paper presentation competition arranged by Tanthra Urja, B.L.Patil Polytechnic, Khopoli
- ❖ Presented paper on 'Energy Conservation for Electrical System' in ZENITH 2009 National

conference on Recent Trends in Engineering & technology arranged by Father Agnel Polytechnic. on 31st Oct 2009

Published papers in journals

- ❖ Published Article on 'Battery swapping' in 28 th NC on Battery electric vehicle & related technologies on 16 April 2022 in VPMs Polytechnic Thane
- ❖ Published International paper on 'Emerging Trends in Electrical Vehicle & its Charging station' in IJRESM Volume 4, issue4 <https://www.ijresm.com> ISSN (Online): 2581-5792, April 2021
- ❖ Published International paper on 'Behavior of Induction Motor at Voltage Unbalanced' in International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181 Vol. 4 Issue 05, May-2015
- ❖ Published International paper on 'Detection of Abnormal Conditions of Induction Motor by using ANN' in International Journal of Science and Research (IJSR) Volume 4 Issue 5, May 2015
- ❖ Published a paper on 'Biogas-A gift for rural electrification system in national seminar on 'Alternative Energy sources' in 2005 Organized by V.P.M's Polytechnic, Thane on 28th August 2005

Conference attended

- ❖ 30th National conference on Smart Materials and Manufacturing Trends in Engineering & Applied Sciences on 1st March 2025 at VPM's Polytechnic Thane
- ❖ 28th National Conference on "Battery Electric Vehicle & Related Technologies" on 16th April 2022 at VPM's Polytechnic Thane
- ❖ 27th National conference on Sensors in Automation (Online Mode) on 19 & 20th Nov 2021 at VPM's Polytechnic Thane
- ❖ 26th Online National Conference On Technological Innovations At Workplace Safety on 23rd & 24th 2021 at VPM's Polytechnic Thane
- ❖ Silver Jubilee National Conference on Industry 4.0 (Online mode) on 28th & 29th Oct 2020 at VPM's Polytechnic Thane
- ❖ Smart Technology in Occupational Safety, Health and Environment Conference and Awards on 21st Dec 2019 at VPM's Polytechnic Thane
- ❖ National conference on Emerging Trends in Artificial Intelligence and Big Data - A Journey into Future on 21st Sept 2019 at VPM's Polytechnic Thane
- ❖ National conference on IoT-Reconnecting the World on 15th Dec 2018 at VPM's Polytechnic Thane
- ❖ National conference on Road to Health and Safety through Environment Protection at 17th Feb 2018 at VPM's Polytechnic Thane
- ❖ National conference on Advanced Technologies in Renewable Energy Technologies' on 22 nd Dec 2017 VPM's Polytechnic Thane
- ❖ Continuing Education – Conference Rising Above and Beyond Excellence (2015/2016) 16th Jan. ,20th&27th Feb. 2016 in BRIMS Management Institute
- ❖ National conference on safety on 16th Jan 2016 in VPM's Polytechnic Thane
- ❖ International conference BHASKARA 900 21st Sept. 2014 at Vidya prasark Mandal , Thane
- ❖ National Conference on Process Management Safety on 5th Jan at V.P.M's Polytechnic Thane

- ❖ National conference on Emerging Trends in Solar Technology on 5th Jan 13 at V.P.M's Polytechnic Thane
- ❖ National Conference on "Progress through Entrepreneur & Intrapreneurs on 15th Oct 2010 at V.P.M's Polytechnic Thane
- ❖ National conference on Future Power System for Green and Clean World on 20th August 2011 at V.P.M's Polytechnic Thane
- ❖ National Conference on Broader Perspectives of languages, Thinking and Technology on 3rd July 2010 at V.P.M's Polytechnic Thane
- ❖ National Conference on "Recent trends in Engineering & Technology" on 30th & 31st Oct 2009 at Fr. Agnel Polytechnic Vashi
- ❖ National Conference on Safety Practice for Peace, Productivity, & Profit on 10th Oct. 2009 at V.P.M's Polytechnic Thane
- ❖ National Conference on "Advancement in Medical Instrumentation" 19th Sep 2009 at V.P.M's Polytechnic Thane
- ❖ National Conference on "Nuclear Energy for National Development" on 7th July 2009 at V.P.M's Polytechnic Thane
- ❖ National Conference on "Bio-matrix, RFID & Emerging Technologies for automatic identification" 10th Jan 2009 at V.P.M's Polytechnic Thane
- ❖ National Conference on "Corrosion" Oct.2008 at V.P.M's Polytechnic Thane
- ❖ National Conference on Nanotechnology 5th Jan 2008 at V.P.M's Polytechnic Thane
- ❖ National Seminar on "Industrial Safety" 3rd Jan 2007 at V.P.M's Polytechnic Thane
- ❖ National Conference on Geo informatics 8th & 9th Dec. 2006 at V.P.M's Polytechnic Thane
- ❖ Two days National Seminar on "Alternative Energy Sources" on 27th and 28th August 2005 at V.P.M's Polytechnic Thane

Consultancy Projects

- ❖ Upgraded Power system lab under MODROB grant is used as a resources for conducting experiments for students of VPM & students of other nearby polytechnic in Mumbai region
- Major project guided: (Developed as a product in labs)**
 - ❖ Implementation of Energy conservation Technique for Lab (old replaced by LED tubes, sensor & electronic reg)
 - ❖ Inductive load bank (Using in Measurement lab)
 - ❖ Capacitive load bank (Using in Measurement lab)
 - ❖ Emergency power supply (Using for HOD lab)
 - ❖ RLC variable bank with multi function meter (using in Machine lab)
 - ❖ Automatic star delta starter (using in Machine lab)
 - ❖ Synchronization Panel for Alternators (using in Machine lab)
 - ❖ Meter Test bench for calibration of meters (using in Measurement Lab)
 - ❖ Single Phase Preventer using MATLAB (using in Power system lab)
 - ❖ Control panel for Lab (used for power system lab)
 - ❖ Fabrication of Air conditioning (Using for HOD Cabin)
 - ❖ Vertical axis Wind Turbine (used for Energy Park)
 - ❖ Floating hydro Turbine (Applied for patent)

Projects Grants received

- ❖ Upgraded Power system lab under MODROB grant of Rs 12.5 lacs in year 2022-23
- ❖ Actively involved in Best Lab Proposal for Machine lab in year 2018-19 & Measurement lab in 2019-20 & which are awarded by MSBTE with cash prize of Rs 50,000/ for both labs
- ❖ Actively involved in up gradation of lab under MODROB grant of Rs 5 lacs in year 2005
 - 1) Control panel for Basic electrical lab
 - 2) Induction motor fault simulator

List of Patents

- ❖ Guided Students project Floating Hydro Turbine filed for Patents

Awards and Achievements

- ❖ Received first prize for poster paper. Presented on M-tech Project 'Detection of Abnormal Conditions of Induction Motor by using ANN' Poster paper presentation Competition in 16th National conference on 'Next Generation Electronics' at VPM's Polytechnic Thane
- ❖ Appreciation certificate for 100% subject result
- ❖ Received SAP award of Excellence with Cash prize of Rs 5000/by IIT Bombay in the 6 week FDP on "Use of ICT in Education for Online and Blended Learning" in May June 2016
- ❖ Resource: Identified as a Mentor in AICTE approved FDP by IIT, Bombay on 3rd Aug - 7th Sept 2017 & 14th Sept- 12th Oct 2017

Books/ Chapters published

- ❖ Developed Bilingual material for sub-Generation transmission & Distribution
- ❖ Developed Bilingual material for sub-DC Machine & Transformer

Date : 1st March 2025

Place: Thane

Mrs Rajashree patil