Name:

Dr. Mangesh S. Thakare

Designation:

Head and Associate Professor, Department of Electrical Engineering and

Contact Details:

Email id: mst_elect@pvgcoet.ac.in

Phone Number with extension: 020 24228258 / 65 / 79 Extn: 404

Educational Qualifications:

- Ph. D. (Energy science & Engineering), IIT Bombay, Mumbai, (2016).
- ME (Electrical Power System), Government COE, Amravati, Amravati Univ., 2000.
- BE (Electrical Engineering), Government COE, Amravati, Amravati Univ., 1997.
- ADCSSAA (Advanced Diploma In Computer Software System Analysis And Applications) MSBTE-Mumbai, (Duration-1 year Part Time)(2000).

Experience:

Teaching: 24 Years

Research: 03 Years

Research Interests:

- Solar Photovoltaic and thermal systems
- Grid connected and isolated renewable Energy systems
- Operational strategies of electric vehicles
- Power system optimization
- Evolutionary computational techniques

Research Projects:

Design and Fabrication of Portable Genset for efficient use of Biomass- a promising Renewable Energy Source. (GVK, NOVOPAN Industries Ltd., 2007-08)

Field of Consultancy (Aspiring):

Renewable Energy Systems, Testing of Electrical Machines and Appliances, Energy Conservation opportunities.



Number of Publications:

International Journal: 09

National Journal: 01

International Conference: 06

National Conference: 14

Book/Books Chapter: 01

Number of PhD students Evaluated: 03

Number of PG Students Guided: 17 (Completed), 02 (Ongoing)

Recognition/ Awards:

 Member: Department Advisory Board, DY Patil College of Engineering, Pimpri, Pune.

 Selected as a Research Scholar for Ph. D. under Quality Improvement Programme of AICTE at Department of Energy Science & Engineering, I.I.T Bombay during May 2009.

• Expert (Judge):

- "AVISHKAR" Research Festival 2017 (Phase-II), organized by North Maharashtra University (NMU), Jalgaon, Maharashtra, December 29th -30th, 2017.
- Delivered expert sessions in AICTE –ATAL, ISTE sponsored Faculty Development Programs

• Reviewer:

International Journals: a) Clean Technology and Environmental Policy

- b) International Journal of Energy Technology and Policy
- c) IEEE Access
- d) Applied Solar Energy

International conference: a) 7th International Conference on Power Systems, 2017 (ICPS 2017), organized by Government COE, Pune. (Dec 21st -23rd, Pune).

National conference: The 8th National Power Electronics Conference 2017 (NPES 2017)|, organized by Government COE, Pune, December 18th -20st, Pune.

 Received First prize in the presentation for the paper "Power management and control strategies of PV-FC hybrid system with storage in grid connected mode" authored by Swapnil Patil and M S Thakare; at 3rd International Conference on Computing Communication Control and Automation organized by Pimpri-Chinchwad COE, Pune, during 17th-18th Aug, 2017.

- Received First prize in the presentation for the paper "Unit Sizing & Cost Analysis of Hybrid Wind-PV System" authored by Prashant Chaugule and M S Thakare; at National Conference on Renewable Energy Commercialization jointly organized by PVG's COET, Pune and Maharashtra Non-Conventional Energy Producers Association, Nashik, during April 23rd 24th, 2012.
- Secured First position in the group activity 'Presentation to Industries' as a part of AICTE-ISTE sponsored short term training program on 'Industrial training' at GCOE, Amravati. (2008)

Professional Society Memberships:

- ISTE---membership number LM ISTE 29622
- International Association of Engineers(IAENG)-257613

Number of Workshops organized: 10

Number of Conferences / Seminars organized: 07

Number of FDPs / STTPs attended: 17

Number of Workshops attended: 05

Number of Conferences / Seminars attended: 10

Number of Online Certification Courses done: 03

Number of Webinar attended: 12

Number of times served as a Resource Person: 09

Number of times served as a Reviewer / Judge: 15

Details of Research papers published:

- Gauri M. Karve, Mangesh S. Thakare, Geetanjali A. Vaidya, "Optimum Sizing of Photovoltaic System with Battery Energy Storage Considering Load Modelling and Variation in System Voltage", Journal of Optoelectronics Laser, (ISSN: 1005-0086), Volume 41 Issue 9, October 2022, 95-111. (Scopus Indexed Journal)
- Pranjal Wagh., M S Thakare, "Analysis of energy consumption and auditing of educational building", International Journal of Computer Engineering and Applications, (ISSN 2321-3469), Volume XII, Special Issue, April 18.

- Devesh Imade, M S Thakare," Rural Electrification using Renewable Energy Sources", International Journal of Advance Research in Science and Engineering (IJARSE), (ISSN 2319-8354), Volume No 6, Issue no. 11, November 2017, 382-391.
- Thakare M.S., Krishna Priya, G.S., Ghosh P.C., Bandyopadhyay S., "Optimization of Photovoltaic-Thermal (PVT) based Cogeneration System through Water Replenishment Profile". **Solar Energy 133** (2016), 512–523.
- Thakare M.S., Ghosh P.C., Bandyopadhyay S., "Optimal Sizing of a Photovoltaic-Thermal Hybrid System using Energy ratio", **Chemical Engineering Transactions**, Vol 45, 373-378, 2015
- Thakare M.S., Ghosh P.C., Bandyopadhyay S., "Utilization of Excess Energy while Sizing of Photovoltaic-Thermal System (PVT) using Design Space Approach", Chemical Engineering Transactions, Vol 45, 1609-1614, 2015
- Krishna Priya, G.S., Thakare M.S., Ghosh P.C., Bandyopadhyay S., 2013, "Sizing of standalone photovoltaic thermal (PVT) systems using design space approach".
 Solar Energy 97 (2013), 48–57.
- Ujjwala Agawane, M S Thakare, "Analysis of PSO Strategies for Non-convex Economic Load Dispatch, International Journal of Engineering Research and Technology (IJERT) (ISSN: 2278-0181), Vol.2 - Issue 11 (November - 2013), pp 3485-3493.
- Santosh Mhetre, M S Thakare, "Evolutionary Computational Techniques to Solve Economic Load Dispatch Problem Considering Generator Operating Constraints", International Journal of Engineering Research and Applications (IJERA) (ISSN: 2248-9622) special issue of National Conference on "Advances in Energy and Power Control Engineering" (AEPCE-2K12)

Details of FDPs / STTPs attended in last 5 years:

- ISTE sponsored One week FDP on "Al Techniques In Solar Energy Applications", organized by Center of Excellence in Teaching & Learning, National Rural Development and Research Society's, Suryodaya College of Engineering & Technology, Suryodaya Polytechnic, Nagpur during 09-14 August 2021.
- AICTE Training And Learning (ATAL) Academy Online FDP on "Electric Vehicles" organized by All India Shri Shivaji Memorial Society's College of Engineering Pune during 05-09 October 2020.
- AICTE Training And Learning (ATAL) Academy Online FDP on "Advances in renewable Energy sources (Electrical & Computer Engineering)" organized by Government College of Engineering Pune during 21-25 September 2020.
- AICTE sponsored One Week phase-2 STTP "Artificial Intelligence (AI) and Machine Learning (ML) Applications in Power Systems" organized by K K Wagh, Institute of Engineering Education & Research, Nasik during 31 August-05 September 2020.
- AICTE sponsored One Week phase-1 STTP on "IoT & Advanced Power Electronics Applications in Smart Grid" organized by Department of Electrical

Engineering, K K Wagh, Institute of Engineering Education & Research, Nasik during 10-14 August 2020.

Major Portfolios Handled: (college level and department level)

- Head of Electrical Engineering Department: 08th August 2022- till date
- Incharge-Substation and Electrical Maintenance
- Academic and Research Coordinator (SPPU)
- PG Coordinator
- Research Center coordinator

Role in University Bodies....

- Member Board of Studies Printing Engineering
- Member LIC Committee, SPPU
- Subject Expert, interview committee, SPPU