

Doctorate in Electrical Engineering

The Electrical Engineering Department of COET is approved as a 'Post Graduate Research Center in Electrical Engineering' by University of Pune since July 2005. Ten Students have completed Ph.D and 07 students have already registered for Ph.D.

The research activities in the department are funded by agencies like DST, DRDO etc. The research centre also has close association with MSEB for various activities. The research is published in reputed national/international conferences and journals. The details about the ongoing research activities can be obtained from individual faculty homepage.

List of Ph.D Guides and Ph.D candidates at the research Center:

Name of Guide	Area of Research	Name/s of Ph.D. Candidate/s	Ph.D. Work Status
Prof. Dr. M. S. Thakare mst_elect@pvgcoet.ac.in	Solar Photovoltaic and thermal systems, Grid connected and isolated renewable Energy systems, Operational strategies of electric vehicles. Power system optimization, Evolutionary computational techniques	Mr. Ganesh Bhagwanrao Wadmare	Pursuing Ph.D.
		Mr. Aniket Jeevanrao Hattarge	Pursuing Ph.D.
		Sandeep Shivaji Khalkar	Pursuing Ph.D.
Prof. Dr. M. P. Bhawalkar	Renewable Energy, Grid integration, Power Quality, FACTS devices	Mr. Shashank Deshmukh	Pursuing Ph.D.
Dr. Mrs. V. A. Joshi vaj_elect@pvgcoet.ac.in	Robotics, Non-linear control, Non-holonomic motion Planning Drives & Control	Dr. Mrs. U. S. Thakar	Completed
		Dr. Mrs. A. A. Apte	Completed
		Ms. Mujawar Simeen Shabbir	Pursuing Ph.D.
		Rigved Kelkar	Pursuing Ph.D.
Dr. Y. P. Nerkar ypnerkar@yahoo.com	Power system High Voltage Engineering, Electric vehicals, Smart Grid technology	Dr. Mrs. G. A. Vaidya	Completed
		Dr. Mrs. S. R. Deshmukh	Completed
		Dr. J. J. Joglekar	Completed
		Dr. A. D. Purandare	Completed
		Dr. M. P. Bhawalkar	Completed
Dr. Mrs. G. A. Vaidya gav_elect@pvgcoet.ac.in	Restructured Power Systems, Renewable Energy Systems, Reactive Power Management	Dr. S. T. Gaikwad	Completed
		Mrs. V. S. Galgali	Completed
		Mrs. K. M. Kurundkar	Completed
		Mrs. G. M. Karve	Pursuing Ph.D. (Pre synopsis report submitted)

Details of Ph.D. students completed:

Name of the Ph.D student	Year of Completion	Name of the guide	Title of PhD thesis	Number of International conference Publications based on the thesis	Research grant/Travel grant etc. received for the research work	Awards / recognitions
Dr. Mrs. G. A. Vaidya	July 2009	Dr. Y. P. Nerkar	Reactive power pricing and management under open access conditions	International Journal: 01 International Conference: 06	AICTE Travel Grant for attending conference: Rs. 41,948/- BCUD Research Grant: RS. 1,50,000/-	Selection at inter university Avishkar Project Competition
Dr. Mrs. Surekha Deshmukh	March 2012	Dr Y P Nerkar	Integrating uncertainty in pricing of electric power for generation scheduling under deregulated environment	National Conference: 04 International Conference: 02	A grant of Rs 1, 50, 000 was sanctioned by BCUD, University of Pune	1. First Prize for Paper Presentation Contest at Annual Paper Meet, at Institution of Engineers (I), PLC, Pune November 2011. 2. First Prize under Ph.D Category at Maharashtra State Inter University Research Competition 'Avishkar-2011-2012'.
Dr. Jayesh Joglekar	March 2015	Dr. Y. P Nerkar	A novel power grid restoration scheme using	International Journal: 03	BCUD Grant Rs. 1,50,000/-	Nil

			active generalized unified power flow controller.	National Journal: 1 National Conference: 1 International Conference: 06		
Dr. M. P. Bhawalkar	March 2018	Dr. Y. P Nerkar	Studies in Wind Power Generating Systems	International Journal: 02 National Journal: 09 International Conference: 05 National Conference: 02	BCUD, Savitribai Phule Pune University for AY 2013-2015 (Rs. 1,80,000/-) (Co-investigator)	1. Best paper award for paper in IEEE International conference (ICACDOT2017) 2. Best paper award at IEI, Pune
Mrs. A. A. Apte	December 2019	Dr. Mrs. V. A. Joshi	Disturbance observer based speed control of Permanent Magnet Synchronous Motor	International Journal-03 International conference-05 Patent: 01	DST Travel Grant to attend the conference SLED 2017 at Italy.	Paper in IEEE transaction on Power Electronics
Mrs. U. S. Thakar	Feb 2020	Dr. Mrs. V. A. Joshi	Fractional-order based Advance Controllers for Permanent Magnet Synchronous Motor	International Journal-03 National Journal: 01 International conference-04	BCUD, Savitribai Phule Pune University for AY 2013-2015 (Rs. 1,80,000/-)	Best paper award for paper in IEEE international conference (ICACDOT2017)

				Book Chapter:01		
Mr. A.D. Purandare	Feb 2020	Dr. Y.P. Nerkar	Three phase three level VSI based DSTATCOM	International Journal - 03 National Journal - 02	Nil	Nil
Mr. S. T. Gaikwad	July 2020	Dr. Y.P. Nerkar	Study of the Impacts of Rooftop Solar PV Power Injection into the Distribution System	International Journal-05 National Journal - 03	Nil	Nil
Mrs. V. S. Galgali	27 September 2021	Dr. G. A. Vaidya	Optimal Placement and sizing of Distributed Generation in Radial Distribution Systems	International Journal - 03 International Conference: 02	Nil	Nil
Mrs. K. M. Kurundkar	October 2024	Dr. G. A. Vaidya Dr. M. P. Bhawalkar (Co-Guide)	Ancillary Services Management through Microgrid	International Journal - 06 International Conference: 03 National Journal: 02 National Conference : 02	Nil	Nil

Details of Ph.D. students (On-going)

Name of Name of the Ph.D student	Date of registration	Name of the Guide	Status	Title of PhD thesis	Number of Journal/ International conference Publications based on the thesis	Research grant/Travel grant etc. received for the research work
Mrs. G. M. Karve	17/01/2017	Dr. Mrs. G.A. Vaidya, Dr. M. S. Thakare (Co-Guide)	Pre-synopsis Given Pre-Synopsis Report Submitted	Optimum storage of Energy Storage System in Microgrid with special reference to Selection, Sizing, Siting and Economics	2 Book Chapter International Journal - 04 International Conference: 05 National Conference: 02	BCUD, Savitribai Phule Pune University for AY 2016-2018 (Rs. 2,60,000/-)
Ms. Mujawar Simeen Shabbir	31/01/2021	Dr. V. A. Joshi	Two progress seminars completed	Control of Permanent Magnet Synchronous Motor for Electric Vehicle Applications	Nil	Nil
Rigved Padmanabh Kelkar	20/04/2023	Dr. V. A. Joshi	First progress seminar completed	Energy Efficient control of Permanent Magnet Synchronous Motor for Electric Vehicle Applications	Nil	Nil
Ganesh Bhagwanrao Wadmare	12/05/2022	Dr. M. S. Thakare	Two progress seminars completed	Design of Virtual Synchronous Generator Control Strategy in Microgrid Application.	International Conference: 01	Nil

Aniket Jeevanrao Hattarge	24/05/2022	Dr. M. S. Thakare	Two progress seminars completed	Optimal Design of Air based Photovoltaic Thermal System	International Conference: 01	Nil
Sandeep Shivaji Khalkar	20/04/2023	Dr. M. S. Thakare	First progress seminars completed	Performance Enhancement of Metallized Film Capacitor for Automotive Applications	International Conference: 01	Nil
Shashank Deshmukh	20/04/2023	Dr. M. P. Bhawalkar	Registration seminar completed	Development of Switched Reluctance Machine for EV Application	Nil	Nil