

Annexure I

Profile & Publications

Name: Dr.Vandana Abhay Kulkarni (Deodhar)



Research Contributions:

1) Approved Ph. D. Guide and Journal Reviewer

- Approved Ph. D. Guide:
A. Guide -02 students(ongoing); B. Expert -02 students; C. Committee Member-04 students
- Reviewer for '*Journal of Engineering and Technology Research*'

2) Publications

▪ Draft Report

'Energy'-Draft report submitted to Marathawada statutory Development Board for presentation before Planning Commission by Kelkar Committee.

▪ Papers

1. Ms V. M. Deodhar, "*Effective Teaching Methods*", paper presented at International Conference ,ICEEAP, I.I.T., Chennai, January 98, pp 24- 36
2. V. M. Deodhar, "*Re-engineering in Engineering Education*" paper presented at I.S.T.E., State level convention at J.N.E.C., January 98, pp. 124- 127
3. V. A. Kulkarni, "*Expert System for fault Diagnosis*", 12th NPSC, I.I.T. Kharagpur, 2002, pp.72-76

4. V. A. Kulakrni(Deodhar), J. D. Naik, A. A. Bhole "*Distributed Generation - an HVDC Light Interconnection Approach*", COGEN-06, IEI National Conference, January 2006, pp. 12-18
5. Amit Kulkarni, Er. S. V. Deshpande, Vandana Kulkarni, "*High Voltage Distribution System – case study of SmDtc, Waluj*", National level symposium, URJA SAHYOG, 19-20 October, 2008, pp. 23-27
6. A. A. Bhole, N. R. Bhasme, V. A. Kulkarni, "*An Approach to Reliable & Quality Distribution in Aurangabad Division Through Distribution Reform, Upgrades & Management*" GRIDSAFE-2007, IEI National Conference, April 2008, pp. 42-45
7. Ms. V. A. Kulkarni, W.Z. Gandhare, R.S. Parulkar, "*Performance Evaluation of AC-DC Filters for Chandrapur- Padghe Bipolar HVDC Link*", ICEE2009, 3rd International Conference on Energy and Environment, **IEEE** PES Conference, Malaysia, December 2009, pp. 356-361
8. Mrs. V. A. Kulkarni, Dr. W.Z. Gandhare, Shri R.S. Parulkar, Shri N.R. Sonkawade, "*Feasibility of inclusion of Active Filter at Chandrapur - Padghe Bipolar HVDC Link*", 'Harmonica 09', Institution of Engineers(IEI), Nagpur, Jan 2009, pp. 121-125
9. V. V. Kulkarni, Dr. V. A. Kulkarni, W. Z. Wanghare, "*Point on Wave Fault Generator*", International Journal of Computer Networks & Security, July, 2011, pp. 1-4
10. Dr. Vandana .A. Kulkarni , Atul A. Barhate, Ajit P. Chaudhari, "On-Line Monitoring System ANN based Fault Detection of Dissolved Gas in Transformer Oil", *International Journal of Emerging Technologies and Applications in Engineering, Technology and Sciences, Volume 4 , Issue 1, July2011, pp. 489-492*
11. Sandeep M Chaudhari, Sachine V. Shelar, Dr. Vandana .A. Kulkarni, Waman Z. Gandhare, "A Case Study of Design and Development of Harmonic Filter", *International Journal of Computer Applications in Engineering Sciences, Vol. 1, July 2011, pp.264-267*
12. Mr. Prashant V. Thokal, Dr. Vandana .A. Deodhar-Kulkarni, "Driver Circuit for White LED using PWM Technique", *International Journal of Engineering Research & Technology, Vol. 2 Issue 1, January- 2013, pp 1-4*

13. Laxmikant Viswanath Bagale, Dr. Vandana .A. Deodhar-Kulkarni “Modelling and simulation of variable frequency speed regulation vector control system based on MATLAB”, *IJEIT Vol:2 Issue : 7, January 2013,pp 160-163*
14. Syed Imran Ali Qasim Ali, Dr. Vandana .A. Kulkarni ,“Computer oriented load flow study of Electrical Substation”, *IJEAT Vol:2 Issue :37, Feb. 2013,pp410-412*
15. N .G. Sankarwar, Dr. Vandana .A. Deodhar-Kulkarni, “Load Flow Study Of Six Bus System By Digital Computer”, *IJEAT, Feb, 2013*
16. M.S.Made, Dr. Vandana .A. Deodhar-Kulkarni, “Simulation of Multilevel Inverter based drive”, National conference on Emerging Trends in Electrical Engineering , VVPIET, 18 Feb. 2013
17. S.N.Abekar, Dr. Vandana .A. Deodhar-Kulkarni, “Comparison Of UPS Inverter Using PI Controller And NN Controller”, *International Journal of Computational Engineering Research, Vol. 3 Issue 5, May- 2013, pp 1-4*
18. Rupesh Borkar, Dr. Vandana .A. Kulkarni , “Modelling and Simulation of Wind Powered Permanent Magnet Direct Current (PMDC) Motor Using MATLAB”, *IJSR, 4, April 2013, pp2975-2979*
19. Mujib Pathan, Dr. Vandana .A. Kulkarni , “Active & Reactive power control of VSC based HVDC transmission system *Journal of Information, Knowledge & Research in Electrical Engineering” 2015*
20. Mr. Prafulla J Kale, Dr. Vandana .A. Kulkarni , Miss Shital Bhad, “Modelling & Simulation of five level diode clamped Inverter For Reduction of common mode voltage in induction motor drive” *International Journal of Engineering Research & Technology , ISSN:2278-0181 Vol. 4 Issue 11, November- 2015, pp 1-4*
21. Mujib J. Pathan, Dr. Vandana .A. Kulkarni , “Fault analysis of HVDC transmission system *International Journal of Electrical Engineering & Technology”(IJEET) VOLUME 7, Issue 3, May-June 2016,pp.106-116*
22. Anju Marathe, Dr. Vandana .A. Kulkarni, Prof V.V. Kulakrni, “Design and Development of Solar Panel Testing Rig using LabVIEW”, *IJSART - Volume 2 Issue 6 –JUNE 2016, pp 463-465*

23. Prafulla J. Kale, Dr. Vandana .A. Kulkarni, “Measurement & Analysis of common mode voltage in case of multilevel Inverter Fed IM Drive” ,*International Journal of Electrical Engineering & Technology(IJEET) VOLUME 7,Issue 4, July-August 2016,pp.16-22*
24. Swathy Sasikumar, Dr. Vandana .A. Kulkarni, “Transformer Shunt Fault Detection Using Two Techniques”. *International Journal of Innovative Research in Science, Engineering and Technology [IJIRSET]Vol.6,Issue 7, July 2017*
25. Rupali Chavhan, Dr. Vandana .A. Kulkarni, “Negative Sequence Component: for Detection of Inter-Turn Fault of Transformer *International Journal of Innovative Research in Science, Engineering and Technology [IJIRSET]Vol.6,Issue 7, July 2017*
26. Priyanka Swami, Dr. Vandana .A. Kulkarni, “A Step-Up DC-DC Resonant Converter For Photo-voltaic System”. *International Journal of Innovative Research in Science, Engineering and Technology [IJIRSET]Vol.6,Issue 7, July 2017*
27. Swathy Sasikumar, Dr. Vandana .A. Kulkarni, “ Modeling Based on Frequency to Oversee the Condition of Transformer”. *International Conference on Innovations in Power and Advanced Computing Technologies [i-PACT 2017]*
28. Rupali Chavhan, Dr. Vandana .A. Kulkarni, “Transformer Inter-Turn Winding Protection Using Sequence Component”. (*ICTPACT 2017*)
29. Priyanka Swami, Dr. Vandana .A. Kulkarni, “Up A Novel Technique Used For Analysis of A Step-Up Resonant Converter For PV System”. (*ICTPACT 2017*)
30. Dr. Vandana .A. Kulkarni, Dilip S. Ahire, Kalyani B. Kalyankar, Prachi M. Surangalikar, “Comparative Analysis of boost converter and interleaved boost converter”.(*IJSRD 2018*)
31. Swapna K Bade, Dr. Vandana .A. Kulkarni, “ Analysis of Railway Traction Power System Using Renewable Energy”.(*ICCPEIC 2018*)
32. Swapna K Bade, Dr. Vandana .A. Kulkarni , “Use Of Renewable Energy In Performance Enhancement Of Indian Traction Power System”.(*IEEE-ICSEDPS 2018*)
33. Rahul Bibave, Dr. Vandana .A. Kulkarni, “A Novel Maximum Power Point Tracking Method For Wind Energy Conversion System: A Review”.(*ICCPEIC 2018*)

34. Rahul Bibave, Dr. Vandana .A. Kulkarni, “Maximum Power Extraction From Wind Energy System By Using Perturbation And Observation Method”.(*IEEE-ICSEDPS 2018*)
35. Ajit K. Jadhav, Dr. Vandana .A. Kulkarni, “Improvement In Power System Stability Using SSSC Based Damping Controller”.(*IEEE-ICSEDPS 2018*)
36. Ajit K. Jadhav, Dr. Vandana .A. Kulkarni, “A Review On Improvement In Rotor Angle And Power System Stability Using SSSC Controller”.(*ICCPEIC 2018*)
37. Shridhar Rankhude, , Dr. Vandana .A. Kulkarni, “DC/DC Buck Power Converter As Smooth Starter For PMDC Motor Based On Cascade Control”.(*ICCPEIC 2018*)
38. Shridhar Rankhude, , Dr. Vandana .A. Kulkarni, “Comparative Analysis Of PID And SMC Controller For Speed Control Of DC Motor –submitted”
39. Shridhar Rankhude, , Dr. Vandana .A. Kulkarni, “Sliding Mode Controller (SMC) Governed Speed Control Of DC Motor”.(*RTEICT 2018*)
40. Avinash Ramrao Waghmare, , Dr. Vandana .A. Kulkarni, “Three-phase To Two-Phase Transformation of Asynchronous Machine By Reference Frame Theory”.(*IJSTR 2019*)
41. Avinash Ramrao Waghmare, Dr. Vandana .A. Kulkarni , “Types of Harmonics in Induction Machine Drive and their Mitigation Techniques”. (*IJSRD 2019*)
42. Abhilash Nilkanth Jadhav, , Dr. Vandana .A. Kulkarni ,”Simulation and Analysis of Solar Powered Brushless DC Motor”.(*IJSTR 2019*)
43. Abhilash Nilkanth Jadhav, , Dr. Vandana .A. Kulkarni, “MPPT Techniques for PV Connected BLDC Motor Drives”.(*IJSRD 2019*)
44. Shubham Umate, , Dr. Vandana .A. Kulkarni, “A Review on Power Quality Improvement Using Filters”.(*IJSRD 2019*)
45. Shubham D. Umate, Dr. Vandana .A. Kulkarni, “Estimation of THD of Nonlinear loads and Mitigation of Harmonics using Active Filters”.(*ICCES 2019*)

3) Books

- **"Saururja Upakarane"**, A booklet, published by 'URJA SAHYOG', 2008

Special Contributions:

1) R and D

1. **Grants fetched:** Received Setup of Rs. 30 lacs for Solar Assessment Centre by MNRE through C-WET
2. **Grants fetched:** Received Rs. 12 Lacs for under TAPTEC project entitled "High Voltage Test Set" from A.I.C.T.E. for High Voltage laboratory as Co-Investigator
3. Career Award for Young Teachers - Project Proposal Presented before A.I.C.T.E. for research grants
4. R.P.S. proposal submitted to A.I.C.T.E.
5. Proposal for H.V. Lab submitted for Japan Aid
6. Worked as Member Secretary, Technical Committee - A National level symposium, URJA SAHYOG (Non Government Organization, working for awareness in the field of Energy), "High Voltage Distribution System", 19-20th October, Aurangabad, 2008
7. Citation for research paper

2) Contributions to teaching/ acad. environment / institutional corporate life, interaction with Professional institutions -Memberships etc.

1. Approved P.G. Teacher for Dr. B.A.M.U., Aurangabad.
2. Associated with Institution of Engineers (India) Aurangabad Local Centre activities in various capacities as Life Member, Chartered Engineer, Executive Committee Member- Elect. Engg. Division, Adviser for Student Chapter, Jt. Secretary and Secretary
Arranging quizzes, expert lectures, paper presentations, seminars, workshops, group discussions etc.for students and Engg.Community in Marathwada region.

3. Founder Member and Executive Committee Member, URJA SAHYOG
4. Organizing member for National Symposium by URJASAHYOG "High Voltage Distribution System", 19-20th October, 2008, Hotel Rama International, Aurangabad.
5. Life Member, Quality Circle Forum of India; ISTE
6. Guided students for preparing electronic kits for experiments in Basics of Electrical Engineering as mini-project activity
7. Appreciated for contributions in Loksabha Elections, library committee *etc.*

3) Contributions as an 'expert'

1. Delivered lecture on "Expert Systems - A branch of Artificial Intelligence" at Staff Development Program, organized at Govt. Polytechnic, Aurangabad. 1996
2. Worked as Faculty (Laboratory session), "Recent Trends in High Voltage Testing", a workshop arranged for faculty and industrial experts at GECA - 2005
3. Delivered lecture on "Conventional and Non-Conventional Energy Systems" in the seminar organized by regional office of DTE, 2008
4. Worked as Faculty for "High Voltage Engineering", a training program arranged for faculty and industrial experts and utility engineers at GECA, December 2007
5. Organized Training program, "High Voltage Testing" for utility, academia and industry Engineers – December 2007
6. High Voltage Engineering-Testing and Consultancy for
 - a) Municipal corporation
 - b) Utilities (MahaTransCo. *etc.*)
 - c) Industries
 - d) Consultancy Activities: High Voltage Testing for Utilities, Industries and Municipal Corporation *etc.*
7. Member-Stake holder Committee Solar City Project-Aurangabad Municipal Corporation