Prof. Dr. Vilas Namdeorao Ghate

DEPARTMENT: Electrical Engineering

Government College of Engineering Amravati

Maharashtra India -444604

Email: vng786@gmail.com , ghate.vilas@gov.in

Telephone: +91 0721 2531264 (R), +919403722074(M)

EDUCATION:

B.E. (Electrical) Amravati University Amravati Maharashtra India 1990

M.E. (Control Systems) Shivaji University Kolhapur Maharashtra India 1993

Thesis: "Self Tuning PID Controller"

Ph.D. (Electronics) Amravati University Amravati Maharashtra India 2010

Thesis: "Study of Fault Detection and Diagnosis of Three Phase Induction Motor using Neural Network Technique and Statistical Classifiers"

AREA OF INTEREST:

- Electrical Machines
- Electrical Drives
- Control Systems
- Neural Network

MEMBERSHIP:

- Life Member of ISTE India
- Fellow of IETE India
- Fellow IE India
- Life Member ISI Bangalore

EXPERIENCE:

Teaching Experience in Govt. Polytechnic Aug.1994 to April 2002

Teaching Experience in Govt. College of Engineering April 2002 to Till Date

PATENT:

1. Patent filed on Novel RBF-MLP Cascade Neural Network for fault Detection of Three Phase Induction Motor", Published in IPR Journal
   Publication Date: 09/04/2010
   Journal No.: 15/2010

2. Patent filed on Programmable Multifuntion Analog Arrey Design by Mixed Signal Control, Published in IPR Journal
   Publication Date: 23/12/2016
   Journal No.: 15/2010

3. Patent filed on Design of Insulated Core Induction Motor For Enhancement of Its Characteristics.
   Publication Date: 27/04/2018

PUBLICATIONS:

International Journal

1. **V.N. Ghate** and S.V. Dudul, (2006), "Failure in Squirrel Cage Induction Motor: Causes and Analysis Review", *HIT Transaction on ECCN,* July 2006 Vol.01.No.3 pp 183-191. (ISSN: 0973-6875)
2. **V.N. Ghate**, S.V. Dudul, G.M. Dhole (2008), "Generalized Model of Three Phase Induction Motor for Fault Diagnosis", *International Journal of Engineering Research and Industrial Applications* Vol.01No.IV 2008 pp 113-127, (ISSN 0974-1518)
3. **V.N. Ghate** and S.V. Dudul, (2009), "Induction Machine Fault Detection Using Support Vector Machine Based Classifier", *WSEAS Transaction on System,(* Issue 5, Volume 8, May 2009 pp 591-603*).(ISSN:* 1109-2777*)*
4. **V.N. Ghate** and S.V. Dudul, (2009), "SOM NN Based Fault Classifier For Three Phase Induction Motor", *International Journal of Intelligent Information Processing,* Vol.03.No.1 pp 134-149.(ISSN: 0973-3892)
5. **V.N. Ghate** and S.V. Dudul, (2009), "RBF-MLP Cascade Neural Network Based Fault Classifier for Three Phase Induction Motor", *International Journal of Neural Network Applications, Vol.(2*(1) January-June 2009, pp. 37-42*).* (ISSN: 0974-6048)
6. **V.N. Ghate** and S.V. Dudul, (2009), "Comparative Study of Feature Selection Methods for Fault Classifier of Three Phase Induction Motor", *International Journal of Emerging Technologies and Applications in Engineering, Technology, and Sciences, (Vol.2*, Issue 2 July-Dec. 2009, pp. 462-467*).* (ISSN:0974-3588)
7. **V.N. Ghate** and S.V. Dudul, (2009), "SVM Based Fault Classification of Three Phase Induction Motor", *International Journal of Science and Technology* Vol.2 No.4 pp.32-35. (ISSN:0974-5645)

8. **V.N. Ghate** and S.V. Dudul, (2009), "Artificial Neural Network Based Fault Classifier for Three Phase Induction Motor", *International Journal of Computational Intelligence Research (IJCIR).* (ISSN: 0973-1873) Volume 5, Number 1 (2009), pp. 25–36.

9. **V.N. Ghate** and S.V. Dudul, (2010), "Optimal MLP Neural Network Classifier for Fault Detection of Three Phase Induction Motor", *Elsevier, Transaction on Expert Systems with Applications, Vol.37 Issue 4 (April 2010) pp.* 3468–3481

10. **V.N. Ghate** and S.V. Dudul,(2009), "Induction Machine Fault Detection Using Generalized Feed Forward Neural Network", *KIEE, International Transactions on Electrical Engineering and Technology, Vol. 4, No. 3, pp. 389~395, 2009*

11. **V.N. Ghate** and S.V. Dudul,(2010), "Design of optimal MLP and RBF neural network classifier for fault diagnosis of three phase induction motor", *Int. J. Advanced Mechatronic Systems, Vol. 2, No. 3, 2010* pp.204-216.

12. **V.N. Ghate** and S.V. Dudul,(2010), "Cascade Neural Network Based Fault Classifier for Three Phase Induction Motor", IEEE Transaction on Industrial Electronics, Vol.58 No.5, pp 1555-1563. ISSN: 0278-0046, *Available on http://ieeexplore.ieee.org.* Digital Object Identifier: 10.1109/TIE.2010.2053337.

13. Tarun Kumar and **V.N. Ghate**,(2010)," Interconnected Distributed Generation For The Development Of A Micro Grid", *Journal of Advanced Research in Electrical Engineering, Vol. 4, No. 1, January-June 2010,* pp. 169–172

14. Tarun Kumar and **V.N. Ghate**,(2010), "Distributed Generation & Micro Grids", International Journal Of Power Engineering, *21 (2010*) pp. 117-133

15. Vipul Bannore and **V.N. Ghate**,(2009),Power Quality Improvement In 3 Phase Ac Circuit By Modular Resonant Converter", *International Journal Of Emerging Technologies And Applications In Engineering, Technology And Sciences (IJ-ETA-ETS), January '09 – June '09,* pp.44-50.

16. V.S. Shahade and **V.N. Ghate**,(2008), "Fault Analysis Of Induction Motor Using Artificial Neural Network", *International Journal Of Emerging Technologies And Applications In Engineering, Technology And Sciences (IJ-ETA-ETS), July'08 – December'08,* pp.193-199.

17. Chandrakant L. Bhattar**, V.N.Ghate,** (2012) "A New Control Algorithm for Three-Phase, Four-Wire Unified Power Quality Conditioner (UPQC) in Distributing Systems" *Advanced Materials Research Vols. 433-440 (2012) pp 6731-6736 © (2012) Trans Tech Publications, Switzerland*
    Digital Object Identifier:*:10.4028/www.scientific.net/AMR.433-440.6731*

18. Chandrakant L. Bhattar, **V.N.Ghate**, *(2011), "A New Control Scheme for Three-Phase, Four-Wire Unified Power Quality conditioner (UPQC)", Advances in Computational Science and Technology. ISSN 0973-6107 Volume 4 Number 2 (2011) pp. 183-186*

19. Swapnil B. Mohod, *V.N.Ghate, (2012), "Techniques for Detection of Power Quality Disturbance Waveform – A Review", (IJEECS) International Journal of Electrical, Electronics and Computer Systems. Vol: 8 Issue: 2, 2012, pp. 563-567 ISSN: 2221-7258*

20. P. C. Shetiye, A. A. Ghatol, **V. N. Ghate**, and S. R. Patil (2014), "Detection of Breast Cancer Using Electrical Impedance and RBF Neural Network",(IJIEE), *International Journal of Information and Electronics Engineering, Vol. 5, No. 5, September 2015* pp-356-360, *ISSN:* 2010-3719 DOI: 10.7763/IJIEE.2015.V5.558

21. Swapnil B. Mohod, *V.N.Ghate, (2015), "Comparative Analysis of MLP-RBF Based Networks for Detection and Classification of Power Quality Disturbances.", (IJESRT) International Journal Of Engineering Sciences & Research Technology, Vol. 4, No. 9, September 2015* pp-623-641, *ISSN:* 2277-9655, **(I2OR), Publication Impact Factor: 3.785**

22. Swapnil B. Mohod, *V.N.Ghate, (2015), "Automated Classification and Detection of PowerQuality Disturbances Using RBF Fault Classifier", International Journal of Recent Technology and Engineering (IJRTE), Volume-4 Issue-4, September 2015 pp 17-22, ISSN: 2277-3878* **Impact Factor: 1.109**

23. Swapnil B. Mohod, **V.N.Ghate**, *(2015), "*Automatic Recognition System For Power Quality Disturbances Based On Wavelet And Ann", *International Journal on "Technical and Physical Problems of Engineering" (IJTPE),* Volume 7, Number 3,pp 1-7, ISSN 2077-3528, **Impact Factor: 4.54**

24. P. C. Shetiye, A. A. Ghatol, **V. N. Ghate** (2015), "Diagnosis of Breast Cancer using SOM Neural Network", *International Journal of Emerging Trends & Technology in Computer Science (IJETTCS),* Volume 4, Issue 5(1), September - October 2015,pp 51-55, ISSN 2278-6856

25. P. C. Shetiye, A. A. Ghatol, **V. N. Ghate** (2016), "Discriminant Analysis and Neural Network Based Breast Cancer Classifier Using Electrical Impedance", *IOSR Journal of Computer Engineering (IOSR-JCE) e-ISSN: 2278-0661,p-ISSN: 2278-8727,* Volume 18, Issue 4, Ver. I (Jul.-Aug. 2016), PP 00-00

26. Apeksha Wankhade, *V.N.Ghate* (2018), Prediction of Power of a combine Gas and Steam Turbine Using Artificial Neural Network," International Journal of Electrical Electronics & Computer Science Engineering Volume 5, Issue 2 (April, 2018) | E-ISSN: 2348-2273 | P-ISSN: 2454-1222, pp 220-225. **Impact Factor: 4.255**

27. Pankaj Bobhate, **V.N.Ghate** (2018), "Short Term Load Forecasting Using Artificial Neural Network," International Journal of Electrical Electronics & Computer Science Engineering Volume 5, Issue 2 (April, 2018) | E-ISSN: 2348-2273 | P-ISSN: 2454-1222, pp 220-225. **Impact Factor: 4.255**

28. Amit Mohod , **V.N.Ghate** (2018), "Improve The Speed Characteristics of Slip Ring Induction Motor By Thyristor Control On Rotor Side*",* International Journal for Research in Engineering Application & Management (IJREAM), I*SSN : 2454-9150* Vol-03, Issue-12, Mar 2018 **Impact Factor: 5.646**

29. Kajal Tumane, **V.N.Ghate** (2019) *,* "Harmonic Reduction in Power Distribution Network using Transformerless Hybrid Series Active Filter", International Journal of Emerging Technologies and Innovative Research, *ISSN: 2349-5162, Vol-6, Issue 4, April 2019*, **Impact Factor: 5.87**

30. Kajal Tumane, **V.N.Ghate** (2019) *,* " A review on Hybrid Series Filter Harmonics reduction using Fuzzy logic Controller", International Journal of Engineering Development and Research, *ISSN: 2321-9939, Vol-7, Issue 2, May 2019* **Impact Factor: 7.37**

31. Gita Ghule, **Dr. V. N. Ghate**, Prof. V. M. Harne, (2020), "Intelligent Fault Detection Scheme for Microgrids using Wavelet-based Neural Network: A Review" International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395-0056 Volume: 07 Issue: 01 | Jan 2020 p-ISSN: 2395-0072 pp:2125-2131, **Impact Factor value: 7.34**

32. Gita Ghule, **Dr. V. N. Ghate**, Prof. V. M. Harne, (2020), "Intelligent Fault Detection Scheme For Microgrids Using Wavelet-Based Neural Network", International Journal of Creative Research Thoughts (IJCRT), ISSN: 2320-2882 , Volume 8, Issue 6 June 2020, pp: 1697-1704, **Impact Factor: 7.97**

33. Darshana Tajne, Dr.G.A.Dhomane, **Dr. V.N.Ghate,** (2020) **"**Voltage Sag and Swell Compensator for Distribution Transformer Using Series Voltage Regulator", International Journal of Creative Research Thoughts (IJCRT), ISSN: 2320-2882, Volume 8, Issue 5 May 2020, pp: 3459-3461, **Impact Factor: 7.97**

34. Darshana Tajne, Dr.G.A.Dhomane, **Dr. V.N.Ghate,** (2020) "Different Techniques for Reducing Swag & Swell in Distribution Transformer: A Review", International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395-0056 Volume: 07 Issue: 01 | Jan 2020 p-ISSN: 2395-0072 pp:1187-1194, **Impact Factor value: 7.34**

35. M. R. Salodkar, **V.N.Ghate** (2020), "Exposition of Failing of Circuit Breaker Engaged For Switching of Capacitor Using Soft Computing", International Journal of Electrical Engineering and Technology (IJEET) Volume 11, Issue 6, August

2020, pp. 42-54, Article ID: IJEET_11_06_005, ISSN Print: 0976-6545 and ISSN Online: 0976-6553 DOI: 10.34218/IJEET.11.6.2020.005

36. V.R.Naphade, **V.N.Ghate** (2021) "Experimental Analysis of Saturated Core Fault Current Limiter Performance at Different Fault Inception Angles with varying DC Bias", International Journal of Electrical Power & Energy Systems, Volume 130, 2021, 106943, ISSN 0142-0615, DOI: 10.1016/j.ijepes.2021.106943. (SCIE Indexed/**IF-4.63**, SCImago Journal Rank: Q1)

37. Vittesh Naphade, **Vilas Ghate**, Gajanan Dhole, "Single core configurations of saturated core fault current limiter performance of laboratory test models", International Journal of Electrical and Computer Engineering (IJECE), Vol. 11, No. 6, December 2021, pp. 4667-4677, ISSN: 2088- 8708, DOI: 10.11591/ijece.v11i6.pp4667-4677. (SCOPUS Indexed, SCImago Journal Rank: Q2)

38. V R Naphade, Dr. **V N Ghate**, Dr. G M Dhole, "Saturated Core Fault Current Limiter: A Technology to Handle Short-Circuits in the Modern Power Networks", Industrial Engineering Journal, Vol. XIV & Issue No.04, April - 2021, pp. 05-11, ISSN - 0970-2555 (UGC-Care Listed Journal)

39. V. R. Naphade, K. V. Naphade, **Dr. V. N. Ghate**, "Saturated Core Fault Current Limiter in Electrical Power Industry: A Topological Survey", Industrial Engineering Journal, Ref: AR/NO/59/2021, Publication in process. (UGC-Care Listed Journal)

Book

1) Study of Induction Motor Fault Detection and Diagnosis, Using Neural Network Techniques and Statistical Classifiers, LAP Lambert Academic Publishing (2020-10-07), ISBN-13: 978-620-2-80364-9 ISBN-10: 6202803649 EAN: 9786202803649

Book Chapter

1) Springer's Proceedings in Energy, "The Saturated Core Fault Current Limiter in Modern Power Systems - A Laboratory Model Test Results"

National Journal

1) **V.N. Ghate** and S.V. Dudul,(2007),"Electric Motor : Major Causes Of Failure And Its Detection", Electrical India Magazine Issue February 2007 Page No.69 -74

2) **V.N. Ghate** and S.V. Dudul,(2007), "On The Condition Monitoring Of Induction Machines", Electrical India Magazine Issue August 2007 Page No.134 -138

International Conference

1) **V.N. Ghate,** S.V. Dudul, (2006), "Fault Detection and Diagnosis of Induction motor using AI Techniques – A review" Presented in PCEA-IFToMM International Conference PICA-2006. at Priyadarshni College of Engineering Nagpur on 11/07/2006 to 14/07/2006.

2) **V.N. Ghate**,(2007), "Tandem inverter fed field oriented controlled induction motor drive" Presented at International conference on Recent advancement and applications of computer in Electrical Engineering at College of Engineering Bikaner , on 23 , 24 March 2007.

3) **V.N. Ghate**,(2007), "Behavior of Distance Relay in Series compensated transmission line" Presented at International conference on Recent Advancement and Applications of Computer in Electrical Engineering at College of Engineering Bikaner, on 23, 24 March 2007.

4) **V.N. Ghate**,(2007), "Modeling of UPFC using an Ideal Transformer" Presented at International conference on Recent advancement and applications of computer in Electrical Engineering at College of Engineering Bikaner , on 23 , 24 March 2007.

5) **V.N. Ghate**, S.V. Dudul,(2007), "Failure in Squirrel cage Induction Motor : Causes and Analysis" Presented at International conference on Recent advancement and applications of computer in Electrical Engineering at College of Engineering Bikaner , on 23 , 24 March 2007.

6) **V.N. Ghate**,(2008), "Renewable Energy: Economic and Environmental Issues" Presented at International Conference on Non-conventional Energy Recourses Co-GEN-2008 at IE(I) Nagpur on 9 ,10 Feb.2008.

7) **V.N. Ghate**, S.V. Dudul and G.M. Dhole, (2008), "Generalized model of three phase Induction Motor for Fault Diagnosis", *in Proc. of IEEE International Conference on Computational Technologies in Electrical and Electronics Engineering, SIBIRCON-2008, Novosibirsk Scientific Center Novosibirsk, Russia* July 2008 pp 232-238. *Available on* http://ieeexplore.ieee.org. Digital Object Identifier: 10.1109/SIBIRCON.2008.4602598

8) **V.N. Ghate**, S.V. Dudul, (2009), "Fault Diagnosis of Three Phase Induction Motor Using Neural Network Techniques", *IEEE Second International Conference on Emerging Trends in Engineering & Technology, ICETET 2009,* pp.922-928. *Available on* http://ieeexplore.ieee.org, Digital Object Identifier: 10.1109/ICETET.2009.100

9) Mohan B. Tasre, Prashant P. Bedekar, and **Vilas N. Ghate,** (2011) "Daily Peak Load Forecasting Using ANN", *IEEE International Conference on Current Trends in Technology NUiCONE 2011. Publication Year: 2011 , Page(s): 1 – 6, Available on* http://ieeexplore.ieee.org, *Digital Object Identifier: 10.1109/NUiConE.2011.6153291*

10) Mohan Tasre, **Vilas Ghate** and Prashant Bedekar (2011), "Hourly Load Forecasting Using Artificial Neural Network for a Small Area", IEEE International Conference on Advances in Engineering, Science and Management (IEEE-ICAESM 2012), EGS Pillay Engineering College, Nagapattinam, pp. 379–385, *Available on* http://ieeexplore.ieee.org,

11) Mohan Tasre, **Vilas Ghate** and Prashant Bedekar,(2012), "Comparative Analysis of Hourly Load Forecast for a Small Load Area IEEE International Conference on Computing, Electronics and Electrical Technologies, ICCEETS-2012 Noorul Islam Centre for Higher Education, Kumaracoil, pp. 80-85, *Available on* http://ieeexplore.ieee.org, Digital Object Identifier: 10.1109/ICCEET.2012.6203746

12) Mohan Tasre, **Vilas Ghate** and Prashant Bedekar,(2012), "Input Vector Test for Hourly Load Forecast of Small Area Using Artificial Neural Network" , IEEE *International Conference on Communication Systems and Network Technologies (CSNT-2012),* MIR Labs Society Rajkot, India, pp- 254-258, *Available on* http://ieeexplore.ieee.org, *Digital Object Identifier: 10.1109/CSNT.2012.63*

13) Chandrakant L. Bhattar and **Dr.Vilas N. Ghate** Compensation Algorithms for Three-Phase, FourWire Unified Power Quality Conditioner in Distribution System, International Conference On Innovative Science & Engineering Technology-2011, V.V.P.ENGINEERING COLLEGE, RAJKOT, GUJRAT.(INDIA)

14) Shetiye, P.C.;Ghatol, A.A.,**Ghate V.N.,** (2012), "Neural Network Based Breast Cancer Classifier Using Electrical Impedance", IEEE International Conference on Engineering (NUiCONE), 2012 Nirma University Ahmadabad, pp 1-4, Available on http://ieeexplore.ieee.org,Digital Object Identifier: 10.1109/NUICONE.2012.6493222, Print ISBN: 978-1-4673-1720-7

15) UJWAL S. GHATE, Dr. A. A. GURJAR, **Dr. V. N. GHATE,** (2013), "Power Optimization of Single Precision Floating Point FFT", IEEE International Conference on Advanced Computing Technologies *(ICACT-2013), Annamacharya Institute of Technology & Sciences, Newboyanapalli, Rajampet, India.* Available pp 1-5 on http://ieeexplore.ieee.org, Digital Object Identifier: 10.1109/ICACT.2013.6710494, Print ISBN: 978-1-4673-2816-6

16) Swapnil B. Mohod, *V.N.Ghate, (2015),* MLP-Neural Network Based Detection And Classification Of Power Quality Disturbances", IEEE International Conference on Energy Systems and Application (ICESA-2015), Dr. D. Y. Patil Institute of Engineering & Technology, Pune India. Available pp 124-129 on http://ieeexplore.ieee.org, Digital Object Identifier: 10.1109/ICESA.2015.7503325

17) Apeksha Wankhade, ***V.N.Ghate*** (2018), Prediction of Power of a combine Gas and Steam Turbine Using Artificial Neural Network," Third International Conference on Recent Trends in Electronics, Information and Communication Technology (RTEICT-2018) May 18 &19 2018. PP 1103-1108, Sri Venkateshwara College of Engineering, Bengaluru

18) **Pankaj Bobhate,** *V.N.Ghate* **(2018),** "Short Term Load Forecasting Using Artificial Neural Network," Third International Conference on Recent Trends in Electronics, Information and Communication Technology (RTEICT-2018) May 18 &19 2018. PP 1276-1280, Sri Venkateshwara College of Engineering, Bengaluru

19) Apeksha Wankhade, ***V.N.Ghate*** (2018), Prediction of Power of a combine Gas and Steam Turbine Using Artificial Neural Network," Third International Conference on Recent Trends in Electronics, Information and Communication Technology (RTEICT-2018) May 18 &19 2018. PP 1103-1108, Sri Venkateshwara College of Engineering, Bengaluru, Available on *http://ieeexplore.ieee.org*, Digital Object Identifier: 10.1109/RTEICT42901.2018.9012143

20) Pankaj Bobhate, **V.N.Ghate** (2018), "Short Term Load Forecasting Using Artificial Neural Network," Third IEEE International Conference on Recent Trends in Electronics, Information and Communication Technology (RTEICT-2018) May 18 &19 2018. PP 1276-1280, Sri Venkateshwara College of Engineering, Bengaluru. Available on *http://ieeexplore.ieee.org*, Digital Object Identifier:10.1109/RTEICT42901.2018.9012625

21) Sarika Tade , **V.N. Ghate (2018) , "**Application of Dynamic Programming Algorithm for Thermal Unit Commitment with Wind Power", 2018 IEEE Global Conference on Wireless Computing and Networking (GCWCN), November 23-24, PP 182-186, CTC Lonawala, Available on *http://ieeexplore.ieee.org*,Digital Object Identifier: 10.1109/GCWCN.2018.8668612

22) Sarika Tade , **V.N. Ghate** (2018) , **"**Feasibility and Economical Analysis of Pumped Hydro Storage System for STES Campus, Lonavala ", 2018 IEEE Global Conference on Wireless Computing and Networking (GCWCN), November 23-24, PP 196-199, CTC Lonawala, Available on *http://ieeexplore.ieee.org*,Digital Object Identifier: 10.1109/GCWCN.2018.8668634

23) Amit V Mohod; **Vilas N. Ghate**, (2019) Design and Analysis of Insulated Core Three Phase Induction Motor , IEEE Global Conference for Advancement in Technology (GCAT), 18-20 Oct. 2019 Available on *http://ieeexplore.ieee.org*, Digital Object Identifier: 10.1109/GCAT47503.2019.8978378

24) Vittesh Naphade; **Vilas Ghate**; Atul Koshti; Gajanan Dhole (2020), "Performance Investigation and Reactance Statistics with Monte Carlo Simulation of Saturated Core Fault Current Limiter", IEEE First International Conference on Smart Technologies for Power, Energy and Control (STPEC) , 25-26 Sept. 2020 Available on *http://ieeexplore.ieee.org*, Digital Object Identifier: 10.1109/STPEC49749.2020.9297662

25) Vittesh Naphade, Kiran Kolte and **Vilas Ghate**, "The Saturated Core Fault Current Limiter in Modern Power Systems - A Laboratory Model Test Results", International Conference On Smart Technologies For Energy, Environment & Sustainable Development-2020(4-5 DECEMBER 2020). (Springer's Conference-Best Paper Award)

26) V. Naphade, **V. Ghate**, A. Koshti and G. Dhole, "Performance Investigation and Reactance Statistics with Monte Carlo Simulation of Saturated Core Fault Current Limiter," 2020 IEEE First International Conference on Smart Technologies for Power, Energy and Control (STPEC), 2020, pp. 1-6, Available on *http://ieeexplore.ieee.org*, DOI: 10.1109/STPEC49749.2020.9297662.

27) V. Naphade, **V. Ghate** and G. Dhole, "Experimental Study of Single Core Configurations of Saturated Iron Core Fault Current Limiter," 2021 IEEE International Conference on Sustainable Energy and Future Electric Transportation (SEFET), 2021, pp. 1-5, Available on *http://ieeexplore.ieee.org*,DOI: 10.1109/SeFet48154.2021.9375726.

28) V.Naphade, **Dr. V. Ghate** , K. Naphade, "Fault Current Limiter (FCL) - An Upcoming Component in Electrical Power Sector", National conference on Industrial Engineering and Technology Management NCIETM-2018), NITIE, Mumbai

National Conference

1) "Distance Education In India: A model for developing countries" Presented in III Maharashtra Goa state ISTE convention at Cusrow Wadia Institute of Technology Pune on 30/10/98 to 01/11/98.
2) "Human Resource Development in software market – Emerging Dimensions"   III Maharashtra Goa state ISTE convention at Cusrow Wadia Institute of Technology Pune on 30/10/98 to 01/11/98.
3) "Technical Entrepreneurship Development in India" presented in IV Maharashtra Goa state ISTE convention at Babasaheb Naik Colleg of Engineering Pusad on 23/11/99 to 24/11/99.
4) "Strengthing Revenue Generation & Resource Mobilization : Means of effective financial Management" presented in IV Maharashtra Goa state ISTE convention at Babasaheb Naik Colleg of Engineering Pusad on 23/11/99 to 24/11/99.
5) "Intellectual Property Rights and Technical Teachers" presented in VI Maharashtra Goa state ISTE convention at Dr.Babasaheb Ambedkar Technological University Lonere 14/12/2001 to 15/12/2001.
6) "Demand of Technical Teacher Education in 21 st Century" presented in VI Maharashtra Goa state ISTE convention at Dr.Babasaheb Ambedkar Technological University Lonere 14/12/2001 to 15/12/2001.
7) "Automation In Irrigation: Cannal automation" Presented in IETEZS-2000 a National Level Seminar organized by IETE Nagpur sub center at Dr.Panjabrao Deshmukh Krishi Vidyapith Akola on 21/01/2000 and 22/01/2000
8) "Power Sector Reforms: Importance and Necessity" Presented in National Level Conference of IE(I) at GTBKIT Malout Panjab on 28/05/2004 to 29/05/2004
9) "Wind farm control: Software structure" Presented in National Level Conference of IE(I) at GTBKIT Malout Panjab on 28/05/2004 to 29/05/2004
10) "Demand Side Management" Presented in National Level Conference CISCON 2004 MIT Manipal on
11) "Small Wind Power Station for Household : Today's Need" Presented in   AWCE-2004 National Level Conference organized by YCCE Nagpur and IE(I) local center at YCCE Nagpur on 26/11/2004 to 28/11/2004.
12) "Voltage Stability: Improvement using HVDC" Presented in ETA-2005 a National Level conference at Computer science department of Saurashtra University Rajkot. 01/10/2005 to 02/10/2005
13) "Soft Computing Approach to Fault Diagnosis" Presented in National Level conference at Department of Electrical Engineering MBM College Jai Narain Vyas University Jodhpur on 22/10/2005 to 23/10/2005.
14) "Triangular Factorization Method with optimal ordering for solution of Sparce system" Presented in National Level conference at Department of Electrical Engineering MBM College Jai Narain Vyas University Jodhpur on 22/10/2005 to 23/10/2005.
15) "Fault Detection and Diagnosis of Induction Motor" Presented in National Level Conference CISCON 2004 MIT Manipal on 11/11/2005 and 12/11/2005.
16) "Vector control of Induction Motor Drives from Tandem Converter "presented in second National conference on Recent Trends and Emerging Technologies in electrical Systems (ELCON-06) , National Engineering College ,on 12, 13 October 2006.
17) "Field oriented control of Tandem converter fed Induction motor drives" at Thaper Institute of Technology , Patiala (ITEEP-07) on 6,7 April 2007
18) "Vector control of Tandem Inverter Fed Induction motor" at GRIDSAFE-2007 at Institute of Engineers Nagpur 13, 14 April 2007.

19) "Simulation of series Compensated network using Power System Blockset of MATLAB" at National level conference (KALYANI-RIT Quantum-07) at Rajarambapu Institute of Technology Sangli. 2, 3 March 2007.

20) "Digital Simulation of SATCOM using SimPowerSystem of MATLAB" at national Level conference BITCON-2007 at Bhilai Institute of Technology, Bhilai 16, 17 March 2007.

21) "Behavior of Distance Relay in Transmission system in the presence of STATCOM" at national level conference GRIDSAFE-2007 at Institute of Engineers Nagpur 13,14 April 2007.

22) "New approach to UPFC Modeling" at at National level conference (KALYANI-RIT Quantum07) at Rajarambapu Institute of Technology Sangli. 2, 3 March 2007.

23) "A better scheme of Modeling UPFC using ABCD parameters" at national Level conference BITCON-2007 at Bhilai Institute of Technology, Bhilai 16, 17 March 2007.

24) "Ideal transformer UPFC model" at national level conference GRIDSAFE-2007 at Institute of Engineers Nagpur 13, 14 April 2007.

M.Tech. Thesis Completed under Guidance: 27

Ph.D. Supervision

Recognized Ph.D. Supervisor:
Sant Gadge Baba Amravati University
Electrical Engineering
Electronics and Telecommunications
Gondwana University Gadchiroli
Electrical Engineering
North Maharashtra University Jalgon
Electrical Engineering
Ph.D. Completed under Guidance   : o3
Ph.D. Ongoing under Guidance   : o4

Biography published in Who's Who in Science and Engineering, 10th Anniversary (2011) Edition, Marquis Who's Who, N J USA.