

## **BIODATA**

### **Dr. P. M. Meshram**

Associate Professor

Department of Electrical Engineering

Yeshwantrao Chavan College of Engineering (Y.C.C.E), Nagpur

Nagpur-441110, India



### **EDUCATION**

2015, **Ph.D.**, Electrical Engineering, *Visvesvaraya National Institute of Technology (VNIT), Nagpur, India (CGPA 9.50/10)*.

2003, **M.Tech.** Electrical Engineering, *Visvesvaraya National Institute of Technology (VNIT), Nagpur, India (73.28%)*.

1991, **B.E.** Electrical Engineering, *Visvesvaraya Regional College of Engineering (VRCE), Nagpur, India (63.84%)*. (VRCE is currently known as VNIT).

### **PROFESSIONAL EXPERIENCE**

July 2006–till date:

**Associate Professor**, *Yeshwantrao Chavan College of Engineering (Y.C.C.E), Nagpur, India.*

October 2005–July 2006

**Assistant Professor**, *Yeshwantrao Chavan College of Engineering (Y.C.C.E), Nagpur, India.*

July 1992–October 2005

**Lecturer**, *Yeshwantrao Chavan College of Engineering (Y.C.C.E), Nagpur, India.*

### **RESEARCH PUBLICATIONS**

1. R Karsani, V.B.Borghate, H.M. Surywanshi & **P.M.Meshram**, " Cascaded Multilevel inverter topology developed from a modified H-bridge, "*Electric Power Components and systems (Taylor and Francis)*, vol.45, issue 11, pp. 1191-1201, July 2017.
2. R. Karsani, V.B.Borghate, **P.M.Meshram**, H.M.Surywanshi & S Sabysachi, "A three-phase hybrid cascaded modular multilevel inverter for renewable energy environment," *IEEE Transactions on Power Electronics*, vol.32, issue 2, pp. 1070-1087, Feb. 2017.
3. I. Ahmed, V. Borghate, A Matsa, **P.M.Meshram**, H.M. Surywanshi & M. Choudhari, " Simplfoed space vector modulation techniques for multilevel inverters," *IEEE Transactions on Power Electronics*, vol31, issue12, pp. 8483-8499, Dec. 2016.
4. R. Karsani, V. B. Borghate, **P.M. Meshram** & H.M.Surywanshi, " A modified switched-diode topology for cascaded multilevel inverters," *Journal of Power Electronics*, vol. 16, no. 5 pp. 1706-1715, Sept. 2016.
5. **P.M. Meshram** and V. B. Borghate, "A Simplified Nearest Level Control (NLC) Voltage Balancing Method for Modular Multilevel Converter (MMC)," *IEEE Transactions on Power Electronics*, vol. 30, no. 1, pp. 450-462, Jan. 2015.
6. RR Zade, **PM Meshram**, AD Bonde," Optimal Pulse Width Modulation (OPWM) for Elimination of Harmonics in Parallel Converter,"*2018 International Conference on Smart Electric Drives and Power System*, pp.307-312, 2018.
7. Akshaya Bonde, **P.M. Meshram** , P.P. Bedekar, Keval s. Neralwar & V.B.Borghate, "Application of quarter-wave symmetry selective harmonic elimination PWM( SHE-PWM) to nested point

- clamped (NNPC) converter," *2017 Int. Conf. on innovations in power and advanced computing technologies(i-pact)*, pp. 1-6 VIT, Vellore, India, 21-22 April, 2017.
8. Keval, Neralwar, **P. M. Meshram**, V. B. Borghate, "GA based hybrid selective harmonic elimination (she) technique applied to five-level Nested Neutral Point Clamped (NNPC) Converter", *2016 IEEE 1st International. Conf. on Power Electronics, Intelligent Control and Energy Systems (ICPEICES)*, pp. 1-6, Delhi, India 4-6July 2016India.
  9. Keval, Neralwar, **P. M. Meshram**, V. B. Borghate, "Genetic Algorithm (GA) Based SHE Technique Applied to Seven-level Nested Neutral Point Clamped (NNPC) Converter"2016 *IEEE 1st International. Con/. on Power Electronics, Intelligent Control and Energy Systems (ICPEICES)*, *Delhi, India* 4-6 July 2016, India.
  10. K. Ragvendra Reddy, Sidharth Sabysachi, **P.M.meshram** & V.B. Borghate, "An asymmetrical multilevel inverter topology with reduced source count," *2016 IEEE students conference on electrical, electronics and computer science (SCEECS)*, pp. 1-6, 5-6 march 2016, *Bhopal, India*.
  11. Maifooz K. Sheikh, **P. M. Meshram** and V. B. borghate, "SHE Technique for MMC based on Modified Flying Capacitor Multicell Converter," *2015 IEEE Power, Communication and Information Technology Con/erence*, pp. 108-113,15-17th October, 2015, *Bhubaneswar, Odisha, India*.
  12. Maifooz K. Sheikh, **P. M. Meshram**, "Performance Analysis of Modular Multilevel Converter Based on Modified Flying-Capacitor Multicell Converter Using SPWM," *2015 International Con/erence on Industrial Instrumentation and Control (ICIC)*, *Pune, India*, pp.1555-1560, 28-30 May 2015.
  13. **P.M. Meshram** and V. B. Borghate, "A Voltage Balancing Method Applied to Direct Control Strategy of MMC-VSC-HVDC," *9th International Con/erence on Electrical Engineering/Electronics, Computer, Telecommunications and In/ormation Technology (ECTI-CON)*, *Phetchaburi, Thailand*, 2012, pp.1-4, 16-18 May 2012.
  14. **P.M. Meshram** and R. G. Kanojiya, "Tuning of PID Controller using Ziegler-Nichols Method for Speed Control of DC Motor," *International Conference on Advances in Engineering, Science and Management (ICAESM)*, *Nagapattinam, Tamilnadu*, pp.117-122, 30-31 March 2012.
  15. **P.M. Meshram** and V. B. Borghate, "A Novel Voltage Balancing Method Applied to Direct Control Strategy pf MMC-HVDC System," *International Con/erence on Advances in Engineering, Science and Management (ICAESM)*, *Nagapattinam, Tamilnadu*, pp. 448-452, 30-31 March 2012.
  16. R. G. Kanojiya and **P.M. Meshram**, "Optimal Tuning of PI Controller for Speed Control of DC Motor Drive using Particle Swarm Optimization," *2012 International Con/erence on Advances in Power Conversion and Energy Technologies (APCET)*, 2012 , *Mylavaram, Andhra Pradesh*, pp.1-6, 2-4 Aug. 2012.
  17. **P.M. Meshram** and V. B. Borghate, "A Novel Voltage Balancing Method of Modular Multilevel Converter (MMC)," *International Conference on Energy, Automation, and Signal (ICEAS)*, *Bhuwnneswar, India*, pp.1-5, 28-30 Dec. 2011.
  18. B. Y. Bagde and **P. M. Meshram**, "A Hybrid Decomposition Method for Transient Stability Assessment of Large Power System," *3rd International Con/erence on Emerging Trends in Engineering and Technology (ICETET)*, *Goa, India*, pp.401-406, 19-21 Nov. 2010.
  19. .B. Y. Bagde and **P. M. Meshram**, "Fast Detection of Transient Staability of Multimachine Power System Using SMIE," *2nd International Con/erence on Engineering and ICT Melanka Malayasia* 18-20 February 2010.
  20. **P. M. Meshram**, B. Y. Bagde, and R. N. Nagpure, "A Novel DFACTS Device for the Improvement of the Power Quality Supply," *International Con/erence on Electrical Engineering/Electronics, Computer, Telecommunications and Information Technology (ECTI-CON2005)*, *Pattaya, Thailand*, 2005, , 12-13 May 2005.

21. **P. M. Meshram**, B. Y. Bagde, and R. N. Nagpure, "A Brief Review of Events, People, Market & Technologies for Enhancement of Power Scenario in Asian Countries," *International Conference on Electrical Engineering/Electronics, Computer, Telecommunications and Information Technology (ECTI-CON2005)*, Pattaya, Thailand, 2005, , 12-13 May 2005.
22. **P.M. Meshram**, A. N. Kadu, R. N. Nagpure and K.L. Thakre, "VSC-HVDC for Improvement of Quality of Power Supply," *2004 IEEE Region 10 Conference TENCN 2004, Thailand* pp.256-259 vol. 3, 21-24th Nov. 2004.
23. **P. M. Mshram** and K. L. Thakre, "A Back-To-Back Connection with Voltage Source Converter (VSCs) - A New Way for Improvement of Reliability & Quality of Power Supply," *International Conference on Power System (ICPS)*, 3-5th Nov. ,2004, Kathmandu , Nepal.

## REVIEWER OF JOURNALS/CONFERENCES

1. **IEEE Transaction on Industrial Electronics**, NY, USA (Impact Factor 8.78).
2. **IEEE Transaction on Industrial Informatics**, NY, USA (Impact Factor 8.78).
3. **IEEE Transaction on Power Electronics**, NY, USA (Impact Factor 6.008).
4. **The 7<sup>th</sup> IEEE Conference on Industrial Electronics and Applications (ICIEA 2012)**, Singapore, July 18 - 20, 2012.
5. **The 6<sup>th</sup> IEEE Conference on Industrial Electronics and Applications (ICIEA 2011)**, Beijing, China, 21 - 23 June 2011.
6. IEEE - SRKNEC organized national level symposium 'TECHNOVISION' 7 - 9 MARCH, 2007.
7. International Conference 'Recent trends in Automation & its Adaption to Industries' organized by Priyadarshni College of Engineering & Architecture, Nagpur, India.

### CITATIONS (As on date 30<sup>th</sup> April 2020)

Google Scholar Citations		Scopus	
Citations indices	All	Citations	535
Citations	784	h-index	8
h-index	10		
i10-index	11		

## AWARDS:

**Received Best Paper Presentation Awards to Both Research Papers at an IEEE International Conference at abroad Thailand.**

**Featured in Whos who in Word in 9, 10 and 11 editions**

## TECHNICAL SESSION CHAIR

1. Chairperson at International Conference "Transforming Lives & Healthcare through Technology (TLHTIcon-2017)" held on 9-10<sup>th</sup> January 2017 at DMIMS(DU), Wardha(MS), India.
2. Technical Session chair at International Conference on "Innovations and Trends in Applied Computing-ITAC-2012" held on 1- February 2012 at YCCE, Nagpur.
3. Judge at National Paper Presentation Event UNNATI'14 on 20 February 2014 organised by Dept. of mechanical Engg., Priyadarshni College of Engg., Nagpur.
5. Judge at Colosseum 08 on 10<sup>th</sup> August 2008 organised Ramdeobaba College of Engg.,
6. Judge at TECHNOVISION-07 on 9<sup>th</sup> March 2007 Organised by Ramdeobaba College of Engg., 10/08/2008.

## RESOURCE FACULTY AT STTP/FDP/STAFF DEVELOPMENT PROGRAM

1. One week short term training program (STTP) on "MATLAB Applications for Electrical Engineering,"Emerging Trends & Softwares in Electrical Engineering'. *Department of Electrical engineering, YCCE, Nagpur, 6-11Feb., 2017.*

2. AICTE-ISTE approved one week Short Term Training Programme (STTP) on "MATLAB & its Applications" *Dept. of Electrical Engg., Jagdambha College of Engineering & Technology, Yawatmal*, 27-31<sup>st</sup> December 2016.
3. Two day workshop on Application of MATLAB in Power System & Power Electronics" *Datta Meghe Institute of Engineering, Technology & Research, Sawangi (Meghe), Wardha* 22-23 November 2016.
4. ISTE Approved One Week Faculty Development (FDP) Programme on 'Applications of Power electronics and Power Quality" organized by *Department of Electrical engineering, YCCE, Nagpur*, 13-18<sup>th</sup> June 2016.
5. Expert at research Symposium-IV on 30<sup>th</sup> July 2016.at *Shri Guru Govind Singhji Institute of Engg. And Technology, Vishnupuri, Nanaded (MS)*, 27/07/2016.
6. Two day workshop on "Basics of Matlab & ITS Application for Engineering Problems" *Priyadarshni College of Engineering, Nagpur*, 18-19<sup>th</sup> January 2016.
7. One week short term training program (STTP) on 'Emerging Trends & Softwares in Electrical Engineering'. *St. Vincet Palloti College of Engineering & Technology, Nagpur*, (April 21- 25, 2014).
8. Five day workshop on 'Quantitative Methods of Computer applications" , *YCCE, Nagpur*.
9. Two week *AICTE sponsored Faculty Development Program (FDP)* on 'Advancement in Power System and Power Electronics' *Chattrapati Shivaji Institute of Technology, Durg (C.G.)*, (29<sup>th</sup> - 11<sup>th</sup> May 2013).
10. Two week ISTE and IETE approved STTP on 'Emerging Trends in Artificial Neural network with MATLAB' *G. H. Raisoni College of Engineering and Management, Badnera, Amravati* (26<sup>th</sup> Nov. to 8<sup>th</sup> Dec.2012).
11. One week ISTE approved STTP on 'Advancement in Power Electronics and its Application' *Dr. Babasaheb Ambedkar College of Engineering & Research, Nagpur*, (23<sup>rd</sup> - 27<sup>th</sup> April 2012).
12. Two week **AICTE Approved staff development program** on 'Advances in Power Drives and Control (APSDC)' *Priyadarshni College of Engineering, Nagpur* (Dec. 01<sup>st</sup> to 13<sup>th</sup> Dec. 2008)
13. Two week **AICTE approved staff development program** on 'New challenges and opportunities in Electrical power Industry' *G. H. Raisoni College of Engineering Nagpur* (3<sup>rd</sup> to 14<sup>th</sup> Dec. 2007).
14. Under TEQUIP one week ISTE approved STTP on 'Software Applications to Electrical Engineering' *Yeshwantrao Chavan College of Engineering (YCCE)* (16 - 20 October 2007).
15. Under TEQUIP one week ISTE approved STTP on 'Enhancement of Power System Performance by FACTS Technology' *Yeshwantrao Chavan College of Engineering (YCCE)* (April 2 - 7, 2007).
16. One week ISTE approved STTP on 'Exposure to Electrical Drives and Control Techniques (EEDCT)' *Priyadarshni College of Engineering, Nagpur* (Nov. 27<sup>th</sup> to Dec. 8<sup>th</sup> 2006).
17. Under TEQUIP staff development cell one week STTP on 'Impact of Power Electronics on Power System Operation and protection' *Government College of Engineering, Amravati.*(10 - 14 April 2006).

## **STTP/WORKSHOPS ORGANISED**

1. ISTE Approved one week FDP on 'Applications of Power electronics and Power Quality" organized by *Department of Electrical engineering, YCCE, Nagpur*, 13-18<sup>th</sup> June 2016.
2. Under TEQUIP ISTE Approved one week STTP on 'Enhancement of Power System

Performance by FACTS *Technology' Department of Electrical engineering, YCCE, Nagpur,*  
2<sup>nd</sup> - 7<sup>th</sup> April 2007.

## CONFERENCES ATTENDED

1. 9<sup>th</sup>International Conference on Electrical Engineering/Electronics, Computer, telecommunications and Information Technologies (ECTICon 2012), 16-18 May 2012, Phetchaburi, Thailand.
2. IEEE International Conf. on Advances in Engineering, Science and Management 2012(IEEE-ICAESM-2012), 30-31 March, 2012, Nagapattinam, Tamilnadu.
3. IEEE International Conf. on Energy, Automation and Signal (ICEAS 2011), 28-30, December, 2011, Bubneswar, India.
4. 4<sup>th</sup>IEEE International Conference on Industrial Electronics and Applications (ICIEA2009), 25-27 May 2009, Xian, China.
5. International Conference ECTI-CON-2005, 12-13 May, 2005, Pattaya, Thailand.
6. International conference IEEE TENCON 2004, 21-24, Nov., 2004, ChangMai, Thailand.
7. International Conference on Power System (ICPS), 3-5 Nov. 2004, Kathmandu, Nepal.

## STTP/WORKSHOPS ATTENDED

1. One week STTP on Emerging Trends in Electrical Power and energy Systems (ETEPES-2014), *Maulana Azad National Institute of Technology (MNIT)*, Bhopal 1<sup>st</sup> - 5<sup>th</sup> Jan. 2014.
2. Two day workshop on 'ORCAD Software' YCCE, Nagpur, 5<sup>th</sup> and 6<sup>th</sup> July 2012.
3. One day workshop on 'Intellectual Property Rights' Organised by YCCE in collaboration with National Institute for Inteclectual Property Management, Government of India, Nagpur 7<sup>th</sup> January, 2012.
4. One day workshop on "MATLAB & Simulink for Engineering Education" 25-02-2011 Organized by ADCC Pvt. Ltd and Mathworks India.
5. M. H. R. D. Sponsored S.T.T.P. on "Advanced Power Electronics: Applications and Implementation" 11-15 January, 2010. Organised by Department of Electrical Engineering, *Visvesvaraya National Institute of Technology (VNIT)*, Nagpur (MS).
6. Workshop on "*Curriculum Development in Electrical Engineering*" on Monday April 06, 2009, Organised by Department of Electrical Engg., *Shri Ramdeobaba Kamla Nehru Engineering College*, Nagpur.
7. Two days Workshop on "Power Quality" on 1-2 April, 2009 at *Shri Ramdeobaba Kamla Nehru, Engineering College*, Nagpur (MS).
8. One day workshop on "Cyber Security" during March 3-4, 2008 Organised by Department of Computer & IT, *YCCE Nagpur & Intelligent quotient System Pvt. Ltd*, Pune.
9. Two Day Faculty Development Program on "Research Methodology in Engineer Technology" January 29-30, 2008, Organised by *YCCE, Nagpur*.
10. One day workshop on "SCADA (Supervisory control and Data Acquisition)-2008". Organized by the *Institution of Engineers (India), Nagpur Local Centre* held on 12<sup>th</sup> January 2008, Nagpur (MS).
11. Two day workshop under TEQUIP on "Automation & Programmable logic Controller" Organised by Department of Electrical Engg. *YCCE, Nagpur*. 13-14<sup>th</sup> February 2007.
12. Six day CEP in house course on "Power Electronics" Conducted by *IIT Bombay* July 3-8, 2006.
13. 2-Day Programme under World Bank assisted TEQUIP "Converting Creative Academics into Intellectual Property" at *YCCE Nagpur* January 20-21 2006, NAGPUR, (MS).
14. One week Short course on "Power Quality Problems & Solutions" Organized by Department of Electrical Engg. *IIT Roorkee*. January 9-14, 2006.
15. AICTE-ISTE Winter School on "Reliability Engineering And Applications to Power Systems (REAPS-2000)" during 11<sup>th</sup> December to 23<sup>rd</sup> December, 2000, Organized by the Department

of Electrical Engineering, *J.N.T.U. College of Engineering, (Autonomous College)* Anantpur, AP.

16. Govt. of Maharashtra State Sponsored Refresher course in the "*Electronics and Power*" from 16-10-2000 to 12-11-2000., Organized by *Academic Staff College Nagpur University*, Nagpur (MS).
17. ISTE Short term training Program on "*JAVA- 2 PROGRAMMING*" on October 3-14, 2000. Organized by Department of Electronics Engineering *YCCE, NAGPUR*.

## **ADMINISTRATIVE:**

Institute Level:

- a. Member institution grievance committee YCCE, Nagpur, 2015-2016.
- b. Examination In charge ODD 2015-2016 End Semester (ESE) theory Examinations.
- c. Result review and moderation committee YCCE, Nagpur 2012-2014.
- d. Member examination committee Nagpur University, Summer 2005. YCCE, Nagpur.
- e. Member examination committee Nagpur University, Winter 2005. YCCE, Nagpur.
- f. Member on Adhoc subject Board of Electrical Engineering, YCCE, Nagpur, 2007

Department Level:

- g. First M. Tech (IPS) coordinator.
- h. In charge of Research Publication Portfolio of NBA (National Board of Accreditation) till 2016.
- h. Coordinator PhD, electrical Engg. Deptt.