

Dr. Mohan P. Thakre,
MIET, MIE



Assistant Professor

Department of Electrical Engineering,
K.K.Wagh Institute of Engineering Education & Research, Nashik

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Career Objective:

To obtain a challenging and responsible position in professional organization, where I can contribute my technical skills and strength along with my vision, mission and values that conjoin with organization goal.

Academic Qualification:

Ph.D (Power System Protection): From Visvesvaraya National Institute of Technology (VNIT), Nagpur in the year of 2017.

M. Tech (Power System Engineering): From Dr. Babasaheb Ambedkar Technological University, Lonere, Raigad with 8.16 C.G.P.A (First Class with Distinction Division), in the year of 2011.

B. Tech (Electrical Engineering): From Dr. Babasaheb Ambedkar Technological University, Lonere, Raigad with 7.23 C.G.P.A., in the year of 2009.

Diploma (Poly. Electrical Engineering): From Late Vasantdada Polytechnic, Nagpur with 74.85 % in the year of 2006

I.T.I. (Electrician): From Vikas Industrial Training Centre, Ambadi, Nagpur with 64.57 % in the year of 2000.

Diploma in Industrial Automation

PLC and SCADA

Area of Interest

Electrical power system protection, Numerical relaying, Flexible A.C. transmission system (FACTS), Subsynchronous resonance (SSR), Electrical Installation System, Power system operation and control (PSOC), Power quality (PQ)

Experience:

- **Assistant professor**, Department of Electrical Engineering, K.K.Wagh Institute of Engineering Education & Research, Nashik, **11 Dec. 2017 to till date.**
- **Assistant professor**, Department of Electrical Engineering, V.P. Kamalnayan Bajaj Institute of Engineering and Technology, Baramati, Pune, **02 Jan 2017 to 28 Nov. 2017**
- **Research Experience (Ph.D Scholar)**, Department of Electrical Engineering, Visvesvaraya National Institute of Technology, Nagpur, India. **Jan 2012 to Dec 2017**
- **Assistant Professor**, Department of Electrical Engineering, Dr. Babasaheb Ambedkar Technological University, Lonere, Raigad, India. **July 2011 to Dec. 2011.**
- **Teaching Assistant**, Department of Electrical Engineering, Dr. Babasaheb Ambedkar Technological University, Lonere, Raigad, India. **July 2009 to July 2011.**
- **Lecturer**, Department of Electrical Engineering, Sheth shri. Otarmal Sheshmal Parmar College of Diploma Engg.(Under AICTE, New Delhi), Nagothane, Raigad, India. **July 2010 to June 2011.**
- **Electrical Supervisor**, M/S S. K. Associates, Nagpur. **May 2004 to May 2006.**
- **Electrician**, Gigeo Construction Co. Pvt. Ltd., Nagpur. **Sept. 2002 to Sept. 2005.**

Title of Ph.D Thesis

Some Studies on Effect of Compensation Devices on Distance Protection of Transmission Line

Title of M.Tech. Thesis

Modern Technique for High Voltage Measurement Using Piezoelectric Actuator and Sensor

Title of B.Tech. Thesis

Automatic Plant Irrigation System (Drip Irrigation System)

Title of Diploma Thesis

Model of Hydroelectric Power Plant

List of Publications

A. SCI JOURNALS

1. **Mohan P. Thakre**, Vijay S. Kale, "An Adaptive Approach for Three Zone Operation of Digital Distance Relay with Static Var Compensator using PMU," *Electrical Power & Energy Systems*, Vol.77, pp.327-336, 2016.
2. **Mohan P. Thakre**, Vijay S. Kale, "An Adaptive Protection Strategy for Numerical Relay with Shunt FACTS, based on Positive Sequence Impedance," *The Journal of Engineering*, IET Open Access- **Accepted**.
3. **Mohan P. Thakre**, Vijay S. Kale, "An Adaptive Strategy for Three Zone Operation of Numerical Distance Relay with Shunt FACTS, Based on PMU," *Journal of Electric Engineering*, pp.1-11, 2015, ISSN. 1582-4594

4. D. Koteswara Raju, B. S. Umre, **M. P. Thakre** et. al, "Fractional-Order PI Based UPFC Damping Controller to Mitigate Subsynchronous Resonance," *SpringerPlus*, Vol.5, pp.1-20, 2016.
5. D. Koteswara Raju, **Mohan P. Thakre** et.al, "Effect of SSSC based SSR Controller on the Performance of Distance Relay and Adaptive Approach using Synchronized Measurement." *Int. Trans. on Elect. Energ. Syst.*, Vol. 28, pp.1-18, 2018.
6. **Mohan P. Thakre**, D. Koteswara Raju et.al "Adaptive Digital Distance Relay for SSSC Based Double- Circuit Transmission Line Using Phasor Measurement Unit" *Int. Trans. on Elect. Energ. Syst.*, Vol. 10, pp.1-17, 2018.

B. INTERNATIONAL JOURNALS

1. **Mohan P. Thakre**, Vijay S. Kale, et.al, "Study and Mitigation of Subsynchronous Oscillations with SSC Based SSSC," *Journal of Power and Energy Engineering*, Vol 3, No.9, pp. 33-43, 2015.
2. **Mohan Thakre**, V.S. Kale, "Distance Protection for Long Transmission Line Using PSCAD", *International Journal of Advances in Engineering and Technology*, Vol. 6, No. 6, pp. 2579-2586, Jan. 2014, ISSN: 2231-1963.
3. Gorakshanath Abande, M.F.A.R. Satarkar, **Mohan Thakre**, V.S. Kale, "Impact analysis of STATCOM on Distance Relay", *International Journal of Innovative Research in Science, Engineering and Technology*, 21-22 March 2014, Madurai, Tamil Nadu, Vol. 3, Special Issue 3, pp. 90-97, ISSN : 2319- 8753.
4. D. K. Raju, B. S. Umre, **M. P. Thakre** and V. S. Kale, "Mitigation of subsynchronous oscillations with common controller based STATCOM and SSSC," *J. Electr. Eng. Electron. Technol.* vol.5, no.1, pp. 735-744, 2016.
5. **Mohan P. Thakre**, Priyanka Khade, Vaishali S. Patil, "Mal-Operation of Mho Relay in Transmission Line due to Presence of TCSC," *Int. Journal of Recent Tech., and Engineering (IJRTE)*, Vol. 8, Issue 3, Sept 2019, pp. 2579-2586, ISSN: 4328-4333, (Elsevier Scopus indexed).
6. **Mohan P. Thakre**, Tejas S. Gaidhani, Akshay K. Kale, "VSC-HVDC Bipolar Grid Based on Novel Distance Protection Scheme," *Int. Journal of Recent Tech., and Engineering (IJRTE)*, Vol. 8, Issue 3, Nov 2019, pp. 1527-1532, ISSN: 4328-4333, (Elsevier Scopus indexed).

C. INTERNATIONAL CONFERENCE

1. **Mohan Thakre**, Gorakshanath B. Abande, M.F.A.R. Satarkar, "Effect of STATCOM on Distance Relay," *in proc of IEEE 7th International Conference on Advance Computing and Communication Technology (ICACCT)*, Haryana, India, During 12-13, October 2013 ISBN:978-93-83083-38-1, pp.189-193.
2. **Mohan Thakre**, V.S. Kale, G. Abande, "Impact of STATCOM on distance relay", *IEEE International Conference on Circuit, Power and Computing Technologies*, 20-21 March 2014, Nagercoil, pp.809-813.

3. D. Hemasundar, **Mohan Thakre**, V.S. Kale, “Impact of STATCOM on Distance Relay – Modeling and Simulation Using PSCAD/EMTDC”, *IEEE Students Conference on Electrical, Electronics and Computer Science*, 1-2 March 2014, Bhopal, pp.1-6.
4. Mayuri S. Uttamchandani, **Mohan P. Thakre**, “Design of self-powered device for shunt tripping circuit breakers in unmanned substation”, *IEEE Int. Conf. on Electrical, Communication, Electronics, Instrumentation & Computing (IEEE- ICECEIC) -2019*, Sri Chandrasekharendra sarawasthi, Viswa Mahavidyalaya, 30-31 Jan. 2019, Kanchipuram, Tamil Nadu, India (Paper Code: ICECEIC-0276, **Accepted & presented**)
5. Mayuri S. Uttamchandani, **Mohan P. Thakre**, “Design of self-powered device to enable use of shunt tripping circuit breakers in unmanned utility distribution substations”, *IEEE Int. Conf. on Electrical, Communication, Electronics, Instrumentation & Computing (IEEE- ICECEIC) -2019*, Sri Chandrasekharendra sarawasthi, Viswa Mahavidyalaya, 30-31 Jan. 2019, Kanchipuram, Tamil Nadu, India (Paper Code: ICECEIC-0392, **Accepted & presented**)
6. **Mohan P. Thakre**, M. F. A. R. Satarkar, K. Vadirajacharya, “Experimental non resonant piezoelectric transformer for high voltage measurement”; *IEEE 3rd Int. Conf. on “High Voltage Engineering & Technology” (ICHVET2019)*, CPRI Hyderabad, India, 07- 08 Feb.2019, ISBN: 978-1-5386-9439-8.
7. A. R. Gidd, A. D. Gore, **M. P. Thakre** et.al , “Modelling, Analysis and Performance of DSTATCOM for Voltage Sag Mitigation in Distribution System”, *Proceedings of the 3rd IEEE Int. Conf. on Trends in Electronics and Informatics (ICOEI 2019)*, SCAD Clg. of Engg. & Tech., Tirunelveli, Tamil Nadu, India, 23-25 April 2019, CFP19J32-ART; ISBN: 978-1-5386-9439-8, pp. 366-371.
8. **Mohan P. Thakre**, Tejal S. Barhate, “A Novel Application of Dual Purpose Active Fault Current Limiter to 400 kV Transmission System”, *Proceedings of the 3rd IEEE Int. Conf. on Trends in Electronics and Informatics (ICOEI 2019)*, SCAD Clg. of Engg. & Tech., Tirunelveli, Tamil Nadu, India, 23-25 April 2019, CFP19J32-ART; ISBN: 978-1-5386-9439-8, pp. 837-842.
9. Vaihsnavi V. Hadke, **Mohan P. Thakre**, “Integrated Multilevel Converter Topology for Speed Control of SRM Drive in Plug in-hybrid Electric Vehicle”, *Proceedings of the 3rd IEEE Int. Conf. on Trends in Electronics and Informatics (ICOEI 2019)*, SCAD Clg. of Engg. & Tech., Tirunelveli, Tamil Nadu, India, 23-25 April 2019, CFP19J32-ART; ISBN: 978-1-5386-9439-8, pp. 1013-1018.
10. A. Mulatkar, S. S. Yeole, **M. P. Thakre**, et.al “Power Flow Analysis of CFC for Meshed VSC-HVDC Transmission Systems”, *Proceedings of the 3rd IEEE Int. Conf. on Trends in Electronics and Informatics (ICOEI 2019)*, SCAD Clg. of Engg. & Tech., Tirunelveli, Tamil Nadu, India, 23-25 April 2019, CFP19J32-ART; ISBN: 978-1-5386-9439-8, pp. 722-727.
11. **Mohan P. Thakre**, Prasad S. Jagtap, “Voltage Sag Compensation of Induction Motor with 6 pulse VSI Based DVR”, *Proceedings of the 3rd IEEE Int. Conf. on Smart Systems and Inventive Technology (ICSSIT)*, Tirunelveli, Tamil Nadu, India, 27-29 Nov. 2019, ISBN: 978-1-7281-2119-2, pp. 493-498.

12. Akshay K. Kale, **Mohan P. Thakre**, “Integration of Proactive Hybrid Circuit Breaker with Current Flow Controller for Bipolar HVDC Grid”, *1st IEEE Int. Conf. on Power Electronics Applications and Technology in Present Energy Scenario (PETPES-2019)*, National Institute of Technology Karnataka, Surathkal (Karnataka), 29-31 Aug. 2019, ISBN: 978-1-7281-2655-5, pp. 1-6.
13. Vaibhav S. Guntuk, **Mohan.P.Thakre**, et.al, “A Novel 4-level Converter for Switched Reluctance Motor Drive in Plug-In HEVs”, *IEEE Int. Conf. on Intelligent Computing and Control Systems (ICICCS 2019)*, Vaigai College of Engineering, Madurai, Tamil Nadu, India, 15-17 May 2019 ISBN: 922-1-7281-2214-6, pp. 626-631
14. A. K. Kale, **M. P. Thakre**, “Coordination of Current Flow Controller with HVDC Circuit Breakers for Meshed HVDC Grid Systems”, *2nd IEEE Int. Conf. on Power and Embedded Drive Control (ICPEDC-2019)*, Kalavakkam, Chennai, Tamil Nadu, India, 21- 23 Aug. 2019, ISBN: 978-1-7281-2414-8, pp. 74-80.
15. Vaihsnavi V. Hadke, **Mohan P. Thakre**, “Advanced Multilevel Converter Topology for Switch Reluctance Motor in Plug in-hybrid Electric Vehicle”, *IEEE 2nd Int. Conf. on Power and Embedded Drive Control (ICPEDC 2019)*, SSN Clg. of Engg., Chennai, India, 21-23 Aug. 2019 (Paper id: EM 016, **Accepted & presented**)
16. D. S. Maurya, P. D. Jadhav, R. S. Joshi, R. R. Bhendkhale, **M. P. Thakre**, “A Detailed Comparative Analysis of Different Multipulse and Multilevel Topologies for STATCOM” *IEEE Int. Conf. on Electronics & Sustainable Communication Systems (ICESCS 2020)*, Hindustan Institute of Technology, Coimbatore, India, 2-4 July, 2020 (Paper id: ICESCS273, **Accepted**)
17. R. P. Singh, A. V. Sonawane, M. S. Satapute, D. Y. Shirsath, **M. P. Thakre**, “A Review on Traditional Methods of Condition Monitoring of Transformer” *IEEE Int. Conf. on Electronics & Sustainable Communication Systems (ICESCS 2020)*, Hindustan Institute of Technology, Coimbatore, India, 2-4 July, 2020 (Paper id: ICESCS250, **Accepted**)

D. NATIONAL JOURNAL

1. **Mohan P Thakre** and Vijay S Kale, “Effect of Static Var Compensator on the Performance of Digital Distance Relay Protection of Transmission line”, *The Journal of CPRI*, Vol. 10. No. 4, Dec., 2014 pp. 703-714.
2. **Mohan P Thakre** and Vijay S Kale, “Modelling of three zones distance relay with auto-recloser function using PSCAD/EMTDC simulation: an active learning tool”, *The Journal of CPRI*, Vol. 11. No. 3, Sept., 2015 pp. 493-504.

E. NATIONAL CONFERENCE

1. **Mohan P. Thakre**, M.F.A.R.Satarkar, “Modern Technique for High Voltage Measurement Using Piezoelectric Actuator and Sensor” *National Conference on Power, Instrumentation, Energy and Control* (2011), Department of Electrical Engineering Zakir Husain College of Engineering & Technology Aligarh Muslim University Aligarh (UP) India, During 12-13, February 2011 ISBN: 978-93-80510-95-8.
2. **Mohan P. Thakre**, M.G.Aush, “Novel Piezoelectric Transducer for High Voltage Measurement” *National Conference Challenges to Indian Power Scenario by 2020*

(NCCIPS2020-11), Department of Electrical Engineering Padmashri Dr.Vithalrao Vikhe Patil College of Engineering Ahmednagar(M.S.)India, During Aug. 24-25,February2011.

3. **Mohan P. Thakre**, M.F.A.R.Satarkar, “Modern High Voltage Measurement Using Piezoelectric Transducer” *National Conference on Recent Advances in Electrical Power and System Management (RAEPESM-2011)*, Department of Electrical Engineering M.M.M.Engineering college Gorakhpur , Gorakhpur (UP) India, During 25-26 March,2011.

FDP/ SSTP/Workshop/Conference Attended:

1. Workshop on “Synchronphasor Applications in Power Systems,” CPRI Bangalore, Jan 22-23, 2015.
2. Workshop on “Smart Grid Applications,” VNIT, Nagpur, Jan 8-9, 2015.
3. Workshop on “Condition Monitoring of Transformers and induction Motors,” VNIT, Nagpur, March, 27-28, 2015.
4. Workshop on “Electrical Power Quality and Related Issues,” VNIT, Nagpur, Jan 9- 11, 2014.
5. Workshop on “Fractional Order Calculus (FOC) and its Applications in Engineering,” VNIT, Nagpur, April 4- 5, 2013.
6. Workshop on “Smart Grid Technologies and Applications of IOT,” K. K. Wagh Inst. of Engg. Edu. & Research, Nashik, January 29- 30, 2018.
7. Workshop on “LV Switchgear Selection & its Applications,” K. K. Wagh Inst. of Engg. Edu. & Research, Nashik, March 12- 13, 2018.
8. STTP on “Advanced Computational Tools in Engineering & Technology,” Government College of Engineering, Nagpur, March 19- 23, 2018.
9. FDP on “Hands on Training of Ansys Software and Its Applications in Electrical Engineering,” K. K. Wagh Inst. of Engg. Edu. & Research, Nashik, April 23-27, 2018

FDP/ SSTP/Workshop/Conference Organized:

1. **Two Days IET Sponsored National workshop** on Recent Trends in Renewable Energy & Energy Storage, organized at department of electrical engineering, KKWIEE & Research, Nashik, dated on 23-24 Nov, 2018 (Role: **Coordinator**).
2. **National Level Conference** on Power System and Renewable Energy Systems (PSRES-2019), organized at Department of Electrical Engineering, KKWIEE & Research, Nashik, dated on 22-23 March, 2019 (Role: **Secretary**).
3. National Level Workshop on MATLAB Based Electric Vehicle Design (MEVD-2019),organized at department of electrical engineering, KKWIEE & Research, Nashik, dated on 17th Dec, 2019 (Role: **Coordinator**).
4. **Three Days National Level Workshop** on Advanced in Power Technologies (APT-2020), organized at department of electrical engineering, KKWIEE & Research, Nashik, dated on 23-25 Jan, 2020 (Role: **Convener**)

Professional Membership:

1. Indian Society for Technical Education (**ISTE**) - Membership No. LM 117405
2. Institute of Electrical and Electronics Engineers (**IEEE**) -Student Membership No. 93585773
3. International Association of Engineers (**IAENG**) - Membership No. 185822
4. Institution of Engineering and Technology (**IET**) - Membership No. 1100367161
5. The Institution of Engineers (**IEI**) - Membership No. M-1652162
6. Solar Energy Society of India (**SESI**) - Membership No. IM/695/2019
7. **Member of Editorial Board:** Blue Eyes Intelligence Engineering & Sciences Publication Pvt. Ltd. (**BEI-ESP**) _ Elsevier and SCOPOS Journal.
8. **Fellow Member:** International Scientific Research Organization for Science, Engineering and Technology (ISROSET)._Fellow Membership. ISROSET-FM-1065

Reviewer in Journal / Conference:

1. International Journal of Emerging Electric Power Systems (**IJEEPS**).
2. International journal of Electrical Power & Energy Systems, Elsevier (**IJEPES**).
3. IEEE PES Transactions on Power Delivery.
4. International Journal on Electric Power Components and Systems, Taylor & Francis (**IJEPCS**).
5. The Institution of Engineers (**IEI**)
6. Institute of Electrical and Electronics Engineers (**IEEE**)

UG / PG Dissertations Guided

B. E. Projects		M. E. Dissertations	
Completed	In- Progress	Completed	In- Progress
3 (2018-19)	4 (2019-20)	3 (2018-19)	7 (2018-19)

Duties Handled at University Level (SPPU):

- PG Subject Chairman : 1 Subjects & 1 Lab
- Paper Setter : 2 Subjects

Duties Handled at Departmental Level (KKWIEE&R):

- PG Coordinator (Power System & Control System)
- R & D Coordinator
- Lab Incharge

Software Proficiency

1. PSCAD
2. ATP-EMTP
3. MATLAB
4. Windows(Vista, XP)

Strengths

1. Self Motivated and determined
2. Strong work ethic
3. Intelligence and self confidence
4. Success oriented and natural leader

Personal Details

- Date of Birth : 30th , June 1981
- Marital Status : Married
- Gender : Male
- Caste Category : OBC (Kunabi)
- Permanent Address : Mohan P. Thakre, Plot No. 46, Janaki Nagar, Manewada Ring Road, Nagpur-440034.
- Languages known : English, Marathi and Hindi.
- Passport Details : NO:H3318442
Date of Issue: 25, Feb 2009; Date of Expiry: 24, Feb 2019
Issuing Authority: Passport Officer, Nagpur

References:

1. **Dr. Satish Tanavade**, Head of Electrical Engineering Department, Caledonian college of engineering, Muscat (Affiliated to Glasgow Caledonian university, Scotland), email:- tanavadematish@rediffmail.com, mobile:- 968 94769410
2. **Dr. V. S. Kale**, Professor, Electrical Engineering Department Visvesvaraya National Institute of Technology, Nagpur, (MS), India, email :- tovijay_kale@rediffmail.com, mobile:- +919890042531
3. **Dr. K. L.Thakre**, Eminent professor, Electrical Engineering Department ,Visvesvaraya National Institute of Technology, (MS), India email:- k_thakre@yahoo.com, mobile:- +919890132808
4. **Dr. B. E. Kushare**, professor, Head of Electrical Engineering Department , K. K. Wagh Institute of Engineering Education & Research, Nashik, (MS), India email:- bekushare@kkwagh.edu.in, mobile:- +919420906281

Declaration: I hereby affirm that the information given aforesaid is factual to the best of my knowledge and conviction.

Place: Nashik.

Date: 25/04/ 2020

(Dr. Mohan P. Thakre)