**CURRICULUM VITAE**

**Sanjay Madanrao Shinde**

Associate Professor, Department of Electrical Engineering,

Government College of Engineering, Aurangabad, Maharashtra

**Additional Responsibilities:**

1. Incharge of Academic Support to Weak Students (ASWS)- TEQIP-II
2. Controller of Examinations

**DOB:** 18 July 1966

**Email:smshinde.ee@geca.ac.in**

**Education Details:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Examination** | **Year of Passing** | **Board/University** | **Institute** | **Percentage /CGPA** |
| Ph.D(Electrical) | 2017 | Dr. Babasaheb Ambedkar Marathwada University,  Aurangabad | Government College of Engineering,Aurangabad |  |
| ME (Electrical Power Systems) | 1998 | Dr. Babasaheb Ambedkar Marathwada University,  Aurangabad | Government College of Engineering,Aurangabad | 64.68% |
| BE Electrical | 1990 | Dr. Babasaheb Ambedkar Marathwada University,Aurangabad | Government College of Engineering,Aurangabad | 69.09% |

**Work Experience:**

1. Lecturer, Department of Electrical Engineering, Jawaharlal Nehru Engineering College, Aurangabad, 1990-1995.
2. Lecturer, Department of Electrical Engineering, Govt. Polytechnic, Aurangabad 1995-2002.
3. Lecturer, Department of Electrical Engineering, Government College of Engineering, Aurangabad, 2002-2010.
4. Lecturer, Department of Electrical Engineering, Government College of Engineering, Amravati, 2010-2011.
5. Associate Prof. , Department of Electrical Engineering, Government College of Engineering, Aurangabad, 2011-Till Today.

**Journal papers published**

1. S. M. Shinde, W. Z. Gandhare, “ FACTS Controller for Co-generation Systems” International Conference & Workshop on Emerging Trends in Technology (ICWET 2010) Thakur College of Engineering Mumbai Feb 26-27, 2010, ACM ,pp 973-975 (ACM-ISBN:978-1-60558-812-4)
2. S. M. Shinde, W. Z. Gandhare, “Harmonic Minimization in Sugar Industry based Co-Generation Plant”Ieema journal December 2013, pp. 122-125.

3. D. G. Himpalnerkar, S. M. Shinde, “Harmonic Filters” International Journal

of Advances in Management, Technology & Engineering Sciences, Vol.1,

Issue 6(VII),March 2012,pp188-194(ISSN:2249-7455)

4. V. P. Gosavi, S. M. Shinde, “Harmonic study of VFDS and filters design: A Case

study for sugar industry with cogeneration ”International Journal of Advances

in Engineering & Technology ,July2014, Vol. 7, Issue 3, pp. 782-789.

5. Y. K. Kirange, S. M. Shinde, “Power Quality Aspect of Eddy Current Drive

for Crushing Mill in Sugar Industry” International Journal of Engineering Research

and Application, Vol. 3, Issue 1, January-February 2013, pp. 511-515.

6. M. M. Hapse, A. G. Thosar, S. M. Shinde, “Validating Wind Energy Probability

at Ahmednagar Wind Farm” Journal of Energy and power

Engineering,Volume5,Number2,February2011(Serial Number39),pp 189-194

(ISSN 1934-8975 Print),(ISSN1934-8938-Online).

7. Bidwe Umesh B., Shinde Sanjay M. ,“Speed Control of Three Phase Induction Motor

Using Fuzzy-PID Controller” International Journal of Engineering Research and

Technology, Vol. 2, Issue 11, November-2013,pp. 3794-3799.

8. Maharudra S. Shinde, Sanjay M. Shinde, "PWM Controlled Four Switch Three Phase

Inverter Fed Induction Motor Drive" International Journal of Innovation in

Engineering, Research and Technology [IJIERT], Conference Proceedings ISSN No.-

2394-3696, 2015, pp. 1-6.

9. Sadanand A. Waghmare, Sanjay M. Shinde," Voltage Sag Compensation Using PWM-

Switched Autotransformer" International Journal of Advanced Research in Electrical,

Electronics and Instrumentation Engineering (IJAREEIE), ISSN (Print)-2320-3765,

( Online) 2278-8875, Vol.5, Issue 6, June 2016, pp-4550-4555

10. Manali P. Chavhan, Sanjay M. Shinde, " Modeling of Brushless DC Motor with

Various Loading Conditions for Electric Vehicle Application" International Journal of

Engineering Research and Development (IJERD), ISSN (Online) 2278-067X, (Print)

2278-800X, Vol.12,Issue 6, June 2016, pp 64-71

**Conference papers published**

1. S. M. Shinde, K. D. Patil, W. Z. Gandhare, “ Dynamic Compensation of Reactive Power for Integration of Wind Power In a weak distribution network” International conference on Control, Automation, Communication & Energy Conservation .Kongu Engineering College Perunduri, Erode, Tamil nadu ,India-June2009,IEEE Conference,pp898-908,ISBN:978-81-8424-440-3
2. S. M. Shinde, , K. D. Patil, S. S. Khairnar, W. Z. Gandhare “The Role of Power Electronics in Renewable Energy Systems Research and Development.” 2nd International Conference on Emerging Trends in Engineering and Technology G.H .Raisoni College of Engineering Nagpur December 2009,IEEE Conference, pp726-730,(ISBN978-81-8465-150-8)
3. S. M. Shinde, K. D. Patil, W. Z. Gandhare, “Wavelet Based Method for Off-site and On-site detection of PD Signals in High Voltage Cables” Dr. Babasaheb Ambedkar Marathwada University Aurangabad,December2009
4. G. Lamture, S. M. Shinde, “Performance & analysis of single phase inverter fed three phase induction motor drives” in national conference on emerging trends in electrical & electronics engineering organized by V.V.P.Institute of engineering and technology Solapur in February 2013.
5. A.S.Bhugul, A.G. Thosar, S. M. Shinde, “Performance of standalone solar PV-wind hybrid system for supplying power to data centre” 3rd International conference on recent trends in engineering & technology organised by Late sau Kantibai Bhavarlalji Jain College of Engineering Neminagar Chandawad, Nasik March 2014, pp. 243-249.
6. M. M. Hapse, A. G. Thosar, S. M. Shinde, S. A. Markad“Wind Energy Validation Using Available Wind Potential “at Proc. of International Conference on Advances in Electrical &Electronics 2010, pp. 165-167 .
7. A.S.Bhugul, S. M. Shinde, “Methodology to Find Solar PV Generation Potential & Estimation of Possible Electricity Generation in Aurangabad, India” International Conference On Solar Energy Photovoltaic December 2012, KIIT University. Bhubaneswar.
8. M.S. Potdar, S.M. Shinde, W.Z. Gandhare, “Active Power Filter for Reactive Power Compensation” All India seminar on Generation Economics and Grid Security, 13-14 April 2007, Nagpur, pp 169-172.
9. V. P. Gosavi, S. M. Shinde , "Harmonic study of VFDS and filters design: A Case study for sugar industry with cogeneration" International Journal of Advances in Engineering & Technology ,July2014, Vol. 7, Issue 3, pp. 782-789.
10. Amol S. Varade, Sanjay M. Shinde, " Single Controllable Switch Converters for Switched Reluctance Motor Drive " National Conference on Power and Energy Systems [NCPES-2015] P.S.R. Engineering College,Sivakasi.
11. Sumit K. Nimkar, S.M. Shinde, "A Reduced Switch-Count Converter for Distributed Generation" National Conference on Power and Energy Systems [NCPES-2015] P.S.R. Engineering College,Sivakasi
12. Prasad S. Deshmukh, Sanjay M. Shinde, "Economical Single Switch Step Up Converter for Solar PMDC Motor Drive for Water Pumping Application" National Conference on Power and Energy Systems [NCPES-2015] P.S.R. Engineering College,Sivakasi
13. Rushikesh R Todkar, Sanjay M. Shinde, "A Solar Photovoltaic System for ATM by using Buck-Boost Integrated Full Bridge Inverter" 2nd IEEE Conference on Advances in Electrical& Electronics, Information, Communication & Bio Informatics IEEE, Feb 2016, Chennai, pp 338-342.
14. Vaibhav W. Nage, Sanjay M. Shinde, "An Elevator Driven by Single-Sided Linear Induction Motor (SLIM)" International Conference on Advanced communication, control & computing Technologies (ICACCCT), Syed Ammal Engineering College, Ramanathapuram, Tamilnadu, pp- 445-448.
15. Manali P. Chavhan, Sanjay M. Shinde,"Modeling and Simulation of a Controller of Brushless DC Motor for Electric Vehicle Application" National Conference on Innovative Trends in Science and Engineering,(NC-ITSE-16), Mauli College of Engineering and Technology Shegaon, July 8-9,2016, ISSN-2321-8169, Vol.4,Issue-7, pp 9-13
16. Yogesh Kirange, Sanjay M. Shinde, " Voltage source invertor with three phase preventer for three phase induction motor" National conference on Recent Trends in Electrical Engineering, Government College of Engineering, Karad, Feburary 16-17, 2017
17. Nikhil Ganveer, Sanjay M. Shinde, " Performance Analysis of Induction Generator in Wind Power Systems" National conference on Recent Trends in Electrical Engineering, Government College of Engineering, Karad, Feburary 16-17, 2017
18. Sagar D. Tayde, Sanjay M. Shinde, " Statistical Analysis of Monthly Solar Radiations and Wind Speed Data " International Conference on Emerging Trandes and Innovations in Engineering and Technological Research ( ICETIETR 2k18) ToC H Institute of Science & Technology, Arakkunnam, Ernakulam, Kerla, ISBN No. 978-1=5386-5743-0
19. Prerna R. Guhe, Sanjay M. Shinde, "Analysis of Control Schemes for Stand-Alone Wind Energy Conversion System" (ICIETS-2018) NIE Institute of Technology , Mysore, Karnatka
20. Prerna R. Guhe, Sanjay M. Shinde, "A Review on Control Scheme for Stand-Alone WECS" ( ICCPEIC 2018) Adhiparasakthi Engineering College, Melmaruvathur, TN
21. Abhishek Purushottam Taur, Sanjay M Shinde, " Effects of Grain Oriantation and Switching Temparature Rise in Switchgear Contact Material" 978-1-5386-5629-7/18/$31.00 ©2018 IEEE.

**Trainings Completed:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr.**  **No** | **Title of Training Participated** | **Duration** | **Venue** | **Sponsored By** |
| **1** | Technology Driven Innovation and Entrepreneurship | February 08-12,2017 | GECA-IIT Bombay | TEQIP |
| **2** | Power Quality in Deregulated Power System with MATLAB Applications | June 6-11,2016 | NIT,Hamirpur | TEQIP |
| **3** | Energy Management and Energy Efficiency | 23-27 May 2016 | IIT, Guwahati | TEQIP |
| 4 | Smart grid operations with Renewable | 7-18 Dec.2015 | IIT, Kharagpur | MHRD |
| 5 | Solar Energy and its Applications | 24-28 June 2013 | MANIT, Bhopal | TEQIP |
| 6 | Power Quality Issues and Solution | 26-27 Oct 2013 | ADCET, Ashta |  |
| 7 | Power Quality issues and Improvement | (28-29 September 2012) | PSG College of Technology Coimbatore | DRDO |
| 8 | Application of MATLAB in Electrical Engineering | (17-28 December 2012) | NITTTR, Kolkata | TEQIP |
| 9 | Power Quality and Harmonic Mitigation | (28-31 May 2012) | National power training institute,  Bengaluru | TEQIP |
| 10 | Engineering Optimization EO-2010 | 28 June to 09 July 2010 | Govt. college of engineering, Aurangabad | ISTE |
| 11 | Genetic Algorithm and nuero fuzzy application in engineering | (19 November -10 December 2010) | Govt. college of engineering Aurangabad | ISTE |
| 12 | Research Method in Science, Engineering and Management | 8-19 June 2009 | NIT Calicut | MHRD |
| 13 | National Workshop on Examination Reforms | 10 Dec to 12 Dec 2008 | NITTTR, Bhopal |  |
| 14 | Power Electronics | 6-7 September 2007 | IIT Bombay |  |
| 15 | E-Tap software training | (26-30 June 2006). | KLG systel  Mumbai |  |
| 16 | Power System Operation and Control | 5-10 June 2006 | IIT Bombay |  |
| 17 | Cyber Law for Faculty & Staff of education Institute and Professional | 8-10 Sept 2006 | Govt. college of engineering Aurangabad | TEQIP |
| 18 | Energy Management | 27 Nov- 01 Dec 2006 | IIT Bombay | TEQIP |
| 19 | Motor Winding Training Program | 28 Nov 2005 to 28 Dec 2005 | Govt. college of engineering Aurangabad | TEQIP |
| 20 | Application of MATLAB in Electrical Engineering | 16-20 August 2005 | Govt. college of engineering Aurangabad | ISTE |
| 21 | Transformer Testing, Maintenance and Protection | 22-26 March 2004 | Govt. college of engineering Aurangabad | ISTE |
| 22 | Non-Conventional Source of Energy | 16-27 June 2003 | IIT Delhi | (QIP) |
| 23 | Power Station Operation and Load Dispatch | 28 Feb to 03 March 2000 | MSEB Eklahare Nasik |  |
| 24 | Power Station Operation and Load Dispatch | 08 March to 12 March 1999 | MSEB Eklahare Nasik |  |
| 25 | Industrial Training of Teachers | 13 Oct 1997 to 02 Jan 1998 | Govt. Polytechnic Aurangabad |  |
| 26 | Traction Engineering | 17-21 March 1997 | Indian Railway Institute of Electrical Engineering, Nasik |  |
| 27 | Induction Program (Technical Teacher Training) | 05 Aug to 23 Aug 1996 | Govt. Polytechnic Aurangabad |  |
| 28 | Career Development and Management Skill | 28 Feb to 02 March 1994 | JNEC Aurangabad |  |

**Additional information:**

1. Procurement In-charge in TEQIP.
2. Member of III Cell
3. Delivered invited lectures on Solar photovoltaic, Energy Management, Renewable Energy

**d) Conducted CEP On Solar Photovoltaic Systems (21st Jan to 25th Jan 2018)**

**Research Areas:**

1. Renewable energy
2. Power Quality

**Training Programmes Organized**

1. Energy Audit and Conservation
2. Industrial Automation
3. Renewable Energy Technologies.

**Subjects Taught:**

1. Renewable Electric Power Systems
2. Electromagnetic Fields
3. Transformers and D.C. Machines
4. Energy conservation and Management
5. Solar Energy Systems
6. Renewable Energy Technology
7. Basics of Electrical Engineering
8. Wind Energy Systems
9. Power Quality

**Consultancy Projects undertaken:**

1. Testing of LED Street Light design for Municipal Corporation, Aurangabad
2. Testing of Solar Home Lighting System
3. Testing of motors for Washing Machine
4. Testing of open well submersible motors
5. Energy Audit of Agricultural Feeder

Sanjay Madanrao Shinde