

## BIO-DATA



1. **Name** Mrs Seema Mahendra Jadhav
2. **Designation** Assistant Professor
3. **Residential Address** 202, 'Geetanjali' Residency, Plot no-175, Sector-10, Kharghar-410210, Navimumbai.
4. **Date of birth** 20/07/1974
5. **Total Experience**
  - i. **Teaching** 25 years (Diploma-06+Degree-19)
  - ii. **Industrial** NIL
6. **Qualifications:**

Exam Passed	Year	Institution/ University	Branch/Specialization	Percentage/ CGPI
M.E.	2013	Mumbai University	Power Electronics and Drives	86.2%
B.E.	1997	Karnataka University, Dharwad	Electrical and Electronics Engineering	80.3%

### 7. Employment Record

Sr. No	Institution	Year (From To)	Designation
1.	Fr. C. Rodrigues Institute of Technology, Vashi.	December 2006 till date.	Assistant Professor
2.	K.J.Somaiya Polytechnic, Mumbai	June 2006 to Dec 2006.	Lecturer
3.	V.P.M's Polytechnic, Thane	July 2000 to April 2006.	Lecturer
4.	Government Polytechnic, Thane	Oct 1999 to May 2000.	Lecturer
5.	Fr. C. Rodrigues Institute of Technology, Vashi.	July 1999 to Sep 1999.	Lecturer
6.	Maratha Mandal College of Engineering, Belgaum.	Sep 1997 to March 1999.	Lecturer

**8. Undergraduate / Postgraduate Teaching Experience and Subjects taught**

- **Subjects Taught at UG level**

Sr.No.	Name of Subject	Semester
1.	Basic Electrical and Electronics	I
2.	Electrical Power System I	III
3.	Digital Electronics	IV
4.	Electrical Power System II	V
5.	Power Electronics	V
6.	Electric Traction	VI
7.	Protection and Switchgear Engineering	VI
8.	Electrical Power System -III	VII
9.	Lighting System Design	VIII

- **Subjects Taught at PG level**

Sr.No.	Name of Subject	Semester
1.	EHVAC	II

**9. Research Funding / Consultancy Services:****Research Grants:**

Sr.No.	Name of Funding Organization	Type of Grant	Amount (Rs.)	Year	Name of Research Project
1.	Mumbai University	Minor Research Grant	30,000/-	2016-17	Design and Implementation of MPPT system for Solar PV panels
2.	Mumbai University	Minor Research Grant	20,000/-	2019-20	Solar Powered Street Lighting with Digital Control for dimming operation

**10. Professional Societies Fellowship / Membership**

1. ISTE: Membership no LM-68170
2. IEI: Membership no M-1770300

**11. Projects guided in UG/PG level:**

1. Simulation of Dynamic Voltage Restorer-2015
2. Design and Implementation of MPPT system for Solar PV panels-2016

3. Design and Implementation of Bidirectional converter for Battery charging Applications-2017
4. Standalone Solar –wind Hybrid Power system-2018
5. Design and Implementation of Bidirectional DC-DC converter in Solar PV System for Battery Charging Application, 2017
6. Design and Implementation of Bidirectional DC-DC converter for Battery Charging and Discharging Application, 2018

**12. Achievements/Awards:**

1. Received Best paper Award for the paper titled “Design and development of a small scale EMU model with motorman cabin emulation”, at ICNTE 2023, 5th Biennial International Conference on Nascent Technologies in Engineering, organized by Fr. C. Rodrigues Institute of Technology, Vashi, Navi Mumbai, India on 20-21 Jan 2023.
2. Students project group received Second Prize at Impulse: Next Gen Ideathon, an annual project presentation organized by Vidyalankar Institute of Technology on 13<sup>th</sup> March 2023.

**13. Short Term Training Programmes attended:**

1. Short Term Training Program on ‘Mechatronics’ at Fr. Agnel Polytechnic, Vashi in 2010.
2. STTP on ‘Power Electronics and applications’ at Fr. C. Rodrigues Institute of Technology, Vashi in 2012.
3. STTP on ‘Communication Skills’ at Fr. C. Rodrigues Institute of Technology, Vashi in 2013.
4. STTP on ‘Electromagnetic Fields and its applications’ at Fr. C. Rodrigues Institute of Technology, Vashi in June 2014.
5. STTP on ‘Software tools for Reseachers’ at Fr. C. Rodrigues Institute of Technology, Vashi in Oct 2015.
6. STTP on ‘Microgrid, smart grid and Futuristic Energy Paradigms’ at Fr. C. Rodrigues Institute of Technology, Vashi in June 2016.
7. Two week STTP on ‘Electric Power System’ organised by IIT Kharagpur at BVCOE in 2017.
8. STTP on “Hybrid and Electric Hybrid vehicle”, at Fr. C. Rodrigues Institute of Technology, Vashi in June 2018.
9. AICTE-ISTE Approved Short Term Training program on “Teaching Pedagogies for Engineering Education” Department of Electrical Engineering FCRIT, Vashi, June 24-28, 2019.
10. Five Days Online Faculty Development Program Series on “Learning Pedagogy and Effective Use of Case Methodology” ASM Group of Institutes, 17th May – 21st May 2020
11. One-week National Faculty Development Program and Online training on “Moodle learning Management system” in Association with Spoken Tutorial IIT Bombay, organised by Somaiya Institute of Engineering and Information Technology from 26th-30th May 2020
12. One-week online STTP on "DSP, Arduino, and C/Python" organised by the Department of Electrical Engineering, FCRIT, Vashi from 10-14 May, 2021

13. ISTE Approved STTP on “Digital Transformation in Teaching Learning Process “organised by Department of Computer Engineering from 18-22, January 2021
14. TEQIP-III Sponsored Three days e-program on “Ensuring Physical and Mental Well Being during COVID” organised by Department of Electrical Engineering, VJTI from 27<sup>th</sup> Feb-01<sup>st</sup> March, 2021.
15. ATAL Academy Online FDP on "Power Electronic Systems and its Real Time Control Implementation in DSP" from 08/11/2021 to 12/11/2021 at Fr. C. Rodrigues Institute of Technology.
16. ATAL Academy Online FDP on "Artificial Intelligent Techniques applied to Power Systems" from 13/12/2021 to 17/12/2021 at Vasavi College of Engineering
17. STTP on “Trends and Challenges in Development of EV” at Lendi Institute of engineering and technology, Andrapradesh from 26-30 th Sep 2022.
18. STTP on “Power Electronics and Drives" from 31st October 2022 to 5th November 2022 at FCRIT Vashi.
19. FDP on “Role of Machine Learning in Electrical Engineering” from 02.01.2024 to 06.01.2024 organized by Fr. C. Rodrigues Institute of Technology, Vashi, Navi Mumbai, Maharashtra

#### 14. List of Papers Published in Journal

1. **Seema Jadhav**, Dr. Sincy George and Mahendra Rane, “Active Power Control of Grid-Connected Distributed Generation Unit”, International Journal of Advances in Electrical and Electronics Engineering, ISSN: 2319-1112 /V2N1, Volume 2, Number 1, March 13, 2013, pp. 106-112. March 13, 2013
2. Divya S and **Seema Jadhav**, “Research on Power quality issues in Electric Arc Furnace and its Mitigation techniques”, International Journal of Engineering Research and Technology, Vol 3, Issue 1, ISSN 2276-0181 Jan 2014.  
<https://www.ijert.org/research/research-on-power-quality-issues-in-electric-arc-furnace-and-its-mitigation-techniques-IJERTV3IS10435.pdf>
3. **Seema Jadhav** and Ruchi Harchandani, “Grid Interfacing Technologies for Distributed Generation and Power Quality Issues-A Review”, International Journal of Innovative and Emerging Research in Engineering (IJIERE) ISSN-2394-3343, Vol-2, Issue-3, March- 2015.  
<http://www.ijiere.com/FinalPaper/FinalPaper20154110634961.pdf>
4. **Seema Jadhav**, “Design and Implementation of Maximum Power Point Tracking system for Solar PV Panels”, International Journal of Innovative and Emerging Research in Engineering (IJIERE) ISSN- 2394-3343, Vol-4, Issue-4, April-2017.

#### 15. List of Papers Published in National and International Conferences

1. Mini Rajeev, Seema Jadhav, Kirtish, “Design and Implementation of Maximum Power Point Tracking system for battery charging application using solar panel”, *Renewable*

*Energy Asia 2008 – International Conference & 4th SEE Forum Meeting*, IIT Delhi Renewable Energy Asia-08. pp 10-13 December 2008

2. Mini Rajeev, Sreedevi.S.Nair and Seema Jadhav, “Design Considerations of a Solar powered street light for Stand-alone PV systems”, *International Conference on Control Communication and power engineering 2010*, Chennai, Tamilnadu. CCPE 2010, 28-29th July 2010
3. Seema Jadhav and Dr. Sincy George “Control of DG in Grid-connected and Intentional Islanded Mode of Operation”, *Interface-2014, International Conference on Network Infrastructure Management systems*, VJTI, Jun 27, 2014.
4. Seema Jadhav and Dr. Sincy George “Design of PI Controller for Grid-connected DG unit using Root Locus Technique”, *ICNTE-2015, Conference Proceedings, International Journal of Engineering Research and Technology (IJERT)*, 9-10 Jan 2015.
5. Seema Jadhav “Review of Mitigation Techniques for Power Quality issues in Distributed Generation”, *International Conference on Advanced Science and Technology, ICSAT-2016 Conference Proceedings*, 8-9 Dec 2015.
6. P. Pawaskar, P. Chawande, and S. Jadhav, “Design and implementation of low cost three phase energy meter,” *2016 IEEE Int. Conf. Recent Trends Electron. Inf. Commun. Technol. RTEICT 2016 - Proc.*, pp. 296–300, 2017, doi: 10.1109/RTEICT.2016.7807830.
7. Seema Jadhav, “Impacts of faults on the efficiency of Squirrel cage Induction motor”, *ICNTE-2017, Conference Proceedings in IEEE explorer*, 27-28 Jan 2017.
8. Seema Jadhav, Neha Devdas, Shakila Nisar, Vaibhav Bajpai, “Bidirectional DC-DC converter in Solar PV System for Battery Charging Application”, *IEEE International conference on Smart City and Emerging Technologies*, 5th Jan 2017.
9. Seema Jadhav, Neha Devdas, Shakila Nisar, Vaibhav Bajpai, “Design and Implementation of Bidirectional DC-DC converter for Battery Charging and Discharging Application”, *International Conference on Global Technology and Initiatives (ICGTI) at Rizvi college*, 30th April 2018.
10. Suraj Kamat and Seema Jadhav, “Design and Simulation of Low Power Charging Station for Electric Vehicle,” *2019 6th IEEE Int. Conf. Adv. Comput. Commun. Control. ICAC3 2019*, no. Cv, pp. 1–4, 2019, doi: 10.1109/ICAC347590.2019.9036771.
11. T. Deshpande, S. Das, H. Chavan, A. K. Hangloo, and S. Jadhav, “Solar Powered LED Street Lighting with Digital Control for Dimming operation,” *2021 Int. Conf. Nascent Technol. Eng. ICNET 2021 - Proc.*, no. Icнте, pp. 1–5, 2021, doi: 10.1109/ICNTE51185.2021.9487722.
12. Seema Jadhav and R. Harchandani, “Performance Characteristics Analysis for Solar PV Module,” *5th Bienn. Int. Conf. Nascent Technol. Eng. ICNTE 2023*, no. Icнте, pp. 1–5, 2023, DOI: [10.1109/ICNTE56631.2023.10146700](https://doi.org/10.1109/ICNTE56631.2023.10146700).
13. H. Chaudhary *et al.*, “Design and Development of a Small Scale EMU Model with Motorman Cabin Emulation,” *5th Bienn. Int. Conf. Nascent Technol. Eng. ICNTE 2023*, no. Icнте, pp. 1–6, 2023, DOI: [10.1109/ICNTE56631.2023.10146617](https://doi.org/10.1109/ICNTE56631.2023.10146617).

**Seema Jadhav**