

Name MR. JAYANT JAGANNATH MANE
B-Tech ELECTRICAL, M-Tech PED
Ph.D. (pursuing)

Date of Birth 03/06/1982

Highest Qualification Master of Technology
Branch / Specialization Power Electronics and Drives
Designation Assistant Professor

Department Electrical Engineering

Date of Joining the Institute 18/08/2006



Work Experience

- Working with Finolex academy of management and technology as lecturer from 18/08/06 to till date (10 years 10 months)
- Rajendra Mane Collage of Engg and Technology, Ambav. (Devrukh) as a lecturer from 23/07/2005 to 17/08/2006
- Rajaram Shinde Collage of Engineering, Pedhambe. (Chiplun) as a lecturer from 16/01/2005 to 22/07/2005
- Dr.Babasaheb Ambedkar Technological University, Lonere, Raigad as a lecturer from 02/08/2004 to 30/12/2004

Patent Filed 1

Details "Systems for regenerative braking with remote monitoring" A complete patent (application No. 201721015232) filled at Indian Patent Office on 28th April 2017 as an Inventor and Applicant.

Book Published 2

- Details
1. "Mechatronics", Aksharlen Publications, Solapur (ISBN 81-903788- 2-1)
 2. "Video encoding with authentication using Multiwavelet Transform", Lambart academic publishing, Germany (ISBN 978-3-330-07343-2)

Number of Papers
Presented/Published
in National/
International
Conferences

7

Details

1. Jayant J. Mane, Uday V. Patil, Milind N. Tagare and Bhooshan A. Rajpathak, "Observation of Bifurcations in Current Controlled Boost Converter" Conference proc. Recent Advances in Science and Technology (RAST 2k16), FAMT Ratnagiri, Pages 89-93. Feb. 2016
2. Vaibhav A. Sansare, Milind N. Tagare, Jayant J. Mane and Nitin V. Kelkar, "Design of Solar Battery Charger with voltage controlled Buck Converter", Conference proc. Recent Advances in Science and Technology (RAST 2k16), FAMT Ratnagiri, pages 116-121. Feb. 2016
3. Jayant J. Mane, Sanjay S. Swami, Amit S. Pawaskar and Uday V. Patil, "Electronic Differential for Electric Vehicle with FOC controlled Two Wheel Drives", Conference proc. Recent Advances in Science and Technology (RAST 2k16), FAMT Ratnagiri, pages 83-88. Feb. 2016
4. Jayant J. Mane, Shubhada Mulye and Mohan V. Aware. "Performance of 5-level NPC inverter with Multi-Multicarrier Multi-Modulation technique." *Conference proc. PEDES 2012 (Power Electronics, Drives and Energy Systems), CPRI and IISC Bengaluru, Dec. 2012* of Mumbai.
5. Hemant J. Mane, Jayant J. Mane and Mohan V. Aware, "Performance Evaluation of Carrier Based PWM with harmonic injection Multilevel Inverters", *National Conference on Innovative Smart Grid Technologies, AISSMS COE, Pune, March 2012*
6. Jayant J. Mane and Mohan V. Aware, Member IEEE. "A Comparative Study of Different Multi-Level Inverters Under Different Modulation Strategies." *Conference proc. NPEC 2011 (National Power Electronic Conference), BESU, Kolkata, Dec. 2011*
7. Jayant J. Mane and Mohan V. Aware, Member, IEEE. "Multilevel Grid-Connected Inverter Performance Under Different Modulation Strategies". *conference proc. ICUE 2011 (International Conference and Utility Exhibition), Pattya, Thailand, Sept. 2011*

Number of Papers
Presented/Published
in National/
International
Journals

6

Details

1. Amol R. Sutar, G. G. Bhide, J. J. Mane "Implementation and Study of BLDC Motor Drive System", *International Journal of Engineering Science and Reaserch Technology (IJESRT)* 5(5), pages 57-64. May 2016

2. Jayant J. Mane, Uday V. Patil, Milind N. Tagare and Bhooshan A. Rajpathak, "Observation of Bifurcations in Current Controlled Boost Converter" Asian Journal of Convergence in Technology, Vol II, Issue III, ISSN 2350-1146, I. F.-2.71. May 2017
3. Vaibhav A. Sansare, Milind N. Tagare, Jayant J. Mane and Nitin V. Kelkar, "Design of Solar Battery Charger with voltage controlled Buck Converter", Asian Journal of Convergence in Technology, Vol II, Issue III, ISSN 2350-1146, I. F.-2.71. May 2017
4. Jayant J. Mane, Sanjay S. Swami, Amit S. Pawaskar and Uday V. Patil, "Electronic Differential for Electric Vehical with FOC controlled Two Wheel Drives", Asian Journal of Convergence in Technology, Vol II, Issue III, ISSN 2350-1146, I. F.-2.71. May 2017
5. Vaibhav A. Sansare, Nikhil N. Kasar, Jayant J. Mane and Asha Gaikwad, "Development of Solar PV Battery Charger with Buck Converter", (Accepted and waiting for publication in June 2017 for publication in IJETT)
6. Jayant J. Mane, Vaibhav Sansare, Sanjay S. Swami and Amit S. Pawaskar, "Development of Electronic Differential for EV", (Submitted to IJESRT for review June 2017)

Reviewer of international conference papers

2

Details

1. 7th International Conference on Power Systems [2017] to be held at COEP, Pune.

Seminars/Lecture/ Course/Invited Talks Delivered as Resource Person

12

Details

1. Delivered a guest lecture on "Vector Control and implementation" at N. K. Orchid college of engineering and technology, Solapur, 9th-10th September 2017
2. Conducted workshop on "PCB design and circuit making" at Finolex Academy of engineering and technology, Ratnagiri 24th September and 8th October 2017
3. Conducted workshop on "PCB design and circuit making" at Finolex Academy of engineering and technology, Ratnagiri, 26th September 2017
4. Conducted a bridge course on "Prerequisites of power electronics", at Finolex Academy of engineering and technology, Ratnagiri 8th July 2017
5. Conducted workshop on "PCB design and circuit making" at VIRTUOSIC 2016 SSPM's college of engineering, 22nd - 23rd March 2017
6. Conducted workshop on "Programming with Arduino" at Government Polytechnic, Malvan, 3rd – 4th March 2017
7. Conducted workshop on "Advanced MATLAB in power electronics" at N. K. Orchid college of engineering and

- technology, Solapur, 18th Feb 2017
8. Conducted workshop on "BLDC motor and its control", on 6th April 2016 at FAMT Ratnagiri
 9. Conducted workshop on "DC motors", on 11th March 2016 at VIRTUOSIC 2016 SSPM's college of engineering
 10. Conducted workshop on "PCB Design and circuit making on 10th March 2016 at VIRTUOSIC 2015 SSPM's college of engineering
 11. Conducted workshop on "DC and Special purpose motors" on 26th February 2015 at VIRTUOSIC 2015 SSPM's college of engineering
 12. Delivered a lecture during work shop on "ROBOTICS" under ISTE student chapter on "Introduction to Industrial Robots" at RMCET, Ambav

Number of Workshops, STTPs Tutorials Attended

24

Details

1. Completed 12 week certified NPTEL course on "Design of photo voltaic systems" conducted by Prof. L. Umanand IISC Bangalore, during Aug-October 2017
2. Two-day workshop on "Raspberry Pi" at Finolex academy of management and technology, Ratnagiri during 10-11 Feb 2016.
3. One-week FDP on "FACTS Devices and Distributed Generation through ICT" by National Institute of Technical Teachers Training and Research, Chandigarh online at FAMT Ratnagiri, during 6– 10 Feb, 2017
4. One-week FDP on "Advances in control systems" at Dr. BATU, Lonere during 7-11 Nov 2016
5. One-week workshop on "Funding Schemes Available for Research Proposal" conducted by Research, development and consultancy cell (RDCC), Finolex academy of management and technology, Ratnagiri on all weekends between 13 Feb-23 April 2016.
6. One-week short term course (TEQIP-II Sponsored) on "Power Electronic Circuits and Control" conducted by EED, S. V. National Institute of Technology, Surat, during 14-18 Dec 2015
7. Two-day national workshop on "Project Based Learning" conducted by Vishvaniketan i-MEET, Khalapur, Navi Mumbai, during 10-11 Jan 2015
8. Two week ISTE workshop on "Control Systems" conducted by IIT Kharagpur under the national mission on Education through ICT (MHRD, Govt.

of India), June 2014

9. Two-week ISTE workshop on "Signals and Systems" conducted by IIT Kharagpur under the national mission on Education through ICT (MHRD, Govt. of India), during 2-12 Jan 2014.
10. Two-week ISTE workshop on "Analog Electronics" conducted by IIT Kharagpur under the national mission on Education through ICT (MHRD, Govt. of India), during 4-14 June 2013.
11. Tutorial on "EMI: Theory, Coupling Mechanisms, Equivalent circuits and Solutions" PEDES 2012, CPRI, Bangaluru, Dec. 2012. Attended tutorial on "Resonant and Soft Switching Power Conversion" PEDES 2012, CPRI, Bangaluru, Dec. 2012.
12. Tutorial on "Novel Snubberless Bi-directional Soft-Switching current-fed dc/dc converters" PEDES 2012, CPRI, Bangaluru, Dec. 2012.
13. Tutorial on "Advanced Power Electronic Technology for Greener Electric and Plug-in Hybrid Electric Vehicular" PEDES 2012, CPRI, Bangaluru, Dec. 2012.
14. Tutorial on "Digital Control of Dynamic Systems: Design Issues" PEDES 2012, CPRI, Bangaluru, Dec. 2012.
15. Tutorial on "Resonant and Soft Switching Power Conversion" PEDES 2012, CPRI, Bangaluru, Dec. 2012.
16. Two-day ISTE workshop on "Aakash for Education", conducted by IIT Bombay, Nov. 2012.
17. Tutorial on "Pulse width Modulation for Power Electronic Converters" NPEC 2011, BESU, Kolkata, Dec. 2011.
18. Tutorial on "Control of Power Electronic Systems – Digital Solutions" NPEC 2011, BESU, Kolkata, Dec. 2011.
19. Three-day course on "Solar PV systems: Basic Design & Integration." conducted by IIT Bombay during 24-26 Feb 2011.
20. One-day workshop on "Solar PV Systems- Technology, risks, manufacturing, EPC, O&M, investment" during "First India International Energy Summit" held at held at Visvesvaraya National Institute of Technology, Nagpur; from 28-30 January 2011.
21. "First India International Energy Summit" held at held at Visvesvaraya National Institute of Technology, Nagpur; from 28-30 January 2011.
22. Two-day workshop on "Fuzzy logic and its applications" by Dr. Deshpande, Department of instrumentation, COEP, Pune.
23. Two-day short term training program on "Simulation of Electronic and Power electronic

circuits, using SEQUEL" by Prof. M. B. Patil, IIT Bombay.

24. One-day workshop under ISTE chapter on "Quality Education in Engineering and Technical Institutions" at FAMT, Ratnagiri.