



Mrs. G. Jegadeeswari, B. Tech, M. Tech, (Ph. D)
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Mrs. G. Jegadeeswari, Assistant Professor in the Department of Electrical and Electronics Engineering has 7.5 years of teaching and research experience. She received her B.Tech degree in Electrical and Electronics Engineering and M. Tech degree in Power Electronics and Drives from Pondicherry University and pursuing her PhD degree in SRM Drives from AMET (Deemed to be University), Chennai. She has published more than 60 research articles in International Journals/Conference proceedings. Her research interests include Power Electronics and Drives, Special Machines, Electric Vehicle. She is the member of IEEE, IAENG, SCIEI, IARA and IMRTC (USA). She has organized more than 30 workshops, FDP and seminar in Department as well as University level. She is a CO-PI and Organizer for an AICTE Sponsored STTP and delivered an Expert talk in three phases. She is a CO-PI for many research proposals submitted to DST, NCW and SERB. She authored three text books and 2 book chapters. She is the reviewer for esteemed International Journals like IJSB, JEEE (USA), IJRAR, IJEDR and editor board member for IJSTR and IJSB. She has received many awards in reputed organization.

AWARDS AND REWARDS RECEIVED

- Appreciation received for authored a book chapter titles “Energy and Power” in Asia Book of Records, Maximum Authors Contributing for a Book on Covid-19 and its Impact in 2020.
- **Received letter of Appreciation** as a Keynote Speaker for AICTE Sponsored Short-Term Training Program on “*Role of Smart Technology in Maritime Industries*” Organized by AMET Deemed to be University, Chennai on 4.11.2020
- **Young Scientist Award** received from International Scientist Award 2020 on Engineering, Science and Medicine during 20 & 21 November 2020
- **Best Paper Award** for the paper titled “*Performance Analysis of BLDC Motor with Multilevel Inverter*” on *International E -Conference on Recent Trends and Technologies in Soft Computing (ICRTSC'20) 2020* at St. Peter's Institute of Higher Education and Research, Chennai on 28.09.2020 & 29.09.2020
- **Best Paper Award** for the paper titled “*Machining Behavior of AL6061 fly- Ash Composites*” in the International E- Conference on Advances in Information Technology, Business Management and e- Commerce on 4th & 5th July 2020 at The Quaide Milleth College for Men, Chennai
- **Top 50 International Distinguished Young Researcher 2020**, Recognition received from GREEN THINKERZ SOCIETY, Punjab.
- **Best Paper Award** for the paper titled “*Multi Carrier Based New Random Pulse Width Modulation for three phase inverters*” in the International Journal of Recent Technology and Engineering (IJRTE)-2019.
- **Green ThinkerZ Bright Researcher Award 2018**, GREEN THINKERZ SOCIETY, Punjab.
- **Best Paper Award** for the paper titled “*Power Factor Correction Improvement for Single Phase AC- DC Converter Using Enabling Window Control*” in the International Journal of Mechanical and Production Engineering Research and Development (IJMPERD) – 2018.

FACULTY DEVELOPMENT PROGRAM ATTENDED

1. ATAL Sponsored Five Days Faculty Development Programme on “*Learning Management Systems*”, Organized by National Institute of Technical Teacher’s Training and Research (NITTTR), Chennai during 21.09.2020 to 25.09.2020
2. ATAL Sponsored Five Days Faculty Development Programme on “*Blended Learning and Flipped Classroom*”, Organized by National Institute of Technical Teacher’s Training and Research (NITTTR), Chandigarh during 31.08.2020 to 04.09.2020
3. ATAL Sponsored Five Days Faculty Development Programme on “*Online teaching and learning technologies*”, Organized by Mothilal Nehru National Institute of Technology, Allahabad during 17.08.2020 to 22.08.2020
4. Five days Faculty Development Programme on “*Trends in Electric vehicle*” Organized by St’ Joseph Institute of Technology, Chennai during 20.07.2020 to 24.07.2020
5. Three days Short Term Training Program on “*Electric Vehicles and its Scenario in India*” Organized by B.S. Abdur Rahman Crescent Institute of Science & Technology, Chennai during 01.07.2020 to 03.07.2020
6. Short Term Training Program on “*Artificial Intelligence*” organized by National Institute of Technical Teacher’s Training and Research (NITTTR), Kolkata during 04.05.2020 to 08.05.2020
7. National Level Faculty Development Program on “*Effective Teaching and Research Skills*” at Vidya Jyothi Institute of Technology, Hyderabad on 5.11.2019 to 11.11.2019

NATIONAL / INTERNATIONAL CONFERENCE PRESENTED

1. Presented a paper titled “*Implementation of Power Factor Correction Boost Converter fed SRM for EV Applications*” on International Conference on Sustainable Innovation in Science & Technology (ICSIST’21) at G H Raisonni University, Saikheda, MP on 26.02.2021 to 27.02.2021
2. Presented a paper titled “*Performance Analysis of BLDC Motor with Multilevel Inverter*” on International E -Conference on Recent Trends and Technologies in Soft Computing (ICRTSC’20) – 2020 at St. Peter’s Institute of Higher Education and Research, Chennai on 28.09.2020 & 29.09.2020; ISBN: 978-93-5416-195-7
3. Presented a paper titled “*Implementation of fault detection and diagnosis of three phase induction motor*” on AICTE Sponsored International E-Conference on Electrical, Communication and Computing (ICECC-2020) at Tagore Engineering College, Chennai on 20.8.2020 & 21.8.2020; ISBN: 978-81-947587-4-7
4. Presented a paper titled “*Implementation of Thirty-One Level Cascaded Multilevel Inverter Fed Brushless Dc Motor Drive Applications*” on International E-Conference On Challenges and Opportunities in Renewable Energy, Smart Systems and E-Mobility (ICCORSE- 2020) at SRM Easwari Engineering College, Chennai on 30.07.2020 & 31.07.2020
5. Presented a paper titled “*Machining Behavior of Al6061 fly- ash Composites*” on International E-Conference on Advances in Information Technology, Business Management, and e-Commerce - 2020 at The Quaide Milleth College for Men - Shift II, Medavakkam, Chennai on 04.07.2020 & 05.07.2020; ISBN: 978-93-5407-331-1
6. Presented a paper titled “*Performance Analysis of an Enhanced Positive Output Super-Lift Luo Converter for Renewable Energy Applications*” at 4th International Web Conference on Emerging Trends in Arts, Science, Engineering & Technology, Organized by DK International Research Foundation, Perambalur, Tamilnadu IWCETASET – 2020 on 28th June 2020; Proceedings / ISBN Number: 978-81-945642-3-2

7. Presented a paper titled "*Analysis of Knocking Characteristics in Dual Fuel Engine-The Effects on Diethyl Ether*" on 3rd International Conference on Advance Scientific Innovation in Science, Engineering and Technology (ICASSET-2020) at Bharath Institute of Higher Education and Research (Deemed to be University) on 15.05.2020 & 16.05.2020; ISBN: 978-93-5267-713-9; Page no: 128
8. Presented a paper titled "*Multi Carrier Based New Random Pulse Width Modulation for Three Phase Inverters*" on International Conference on Power Engineering Computing and Control" (PECCON 2019) at Vellore Institute of Technology (Deemed to be University), Chennai during 12.12.2019 to 14.12.2019
9. Presented a paper titled " *A Review of Power Quality Performance Analysis Using Shunt Active Power Filter*" on International Conference on Sustainability Management of Advanced Renewable Energy Technologies (ICSMARET 2019) at Aarupadai Veedu Institute of Technology (Deemed to be University) on 11.04.2019 & 12.04.2019; ISBN: 978-93-5361-004-3; Page no: 236- 239
10. Presented a paper titled "*Design of Space Vector PWM Inverter for Induction Motor Drive Application Using PID Controller*" on International Conference on Intelligence in Computation, Communication and Robotics (ICICCR 2019) at Bharath Institute of Higher Education and Research (Deemed to be University) on 22.02.2019 & 23.02.2019
11. Presented a paper titled "*Fault Detection and Diagnosis in Three Phase Induction Motor Using Neural Network Predictive Controller*" on Virtual National Conference on Emerging Technologies in Energy Systems (NCETES-2020) at Prasad V. Potluri Siddhartha Institute of Technology, Vijayawada on 11.9.2020
12. Presented a paper titled "*IoT Based Home Appliances Control*" on National Conference on Recent Advances in Science, Engineering, and Management (NCRASEM 2020) at Tagore Engineering College, Chennai on 05.03.2020. Pg no. 86, ISBN: 978-81-943033-7-4
13. Presented a paper titled "*Performance Analysis of an Enhanced Positive Output Super-Lift Luo Converter for Renewable Energy Applications*" on National Conference on Cutting Edge Technologies in Power Conversion and Industrial Drives PCID 2019 at Bannari Amman Institute of Technology, Erode on 29.11.2019
14. Presented a paper titled "*Design and Implementation of Flexible Wearable Photovoltaic Cell for Military Applications*" on CSIR Sponsored National Conference on New- Generation Materials for Energy Applications-2019 at B.S. Abdur Rahman Crescent Institute of Science & Technology, Chennai on 21.10.2019 & 22.10.2019. Pg no. 84-96, ISBN: 13:978-81-942285-1-6
15. Presented a paper titled "*Analysis of Dissolved Gases in Transformer Oil using Wireless Data Acquisition*" on National Conference on Cutting Edge Innovations in Engineering and Technology [CEIET - 2019] at Cheran College of Engineering, Karur on 15.03.2019.

BOOK/BOOK CHAPTERS

1. G. Jegadeeswari authored a book chapter titles "*Energy and Power*" Published by ESN Publications in Association with Asia Book of Records, Maximum Authors Contributing for a Book on Covid-19 and its Impact; ISBN: 978-81-947019-0-3
2. G. Jegadeeswari & K.Rekha authored a book chapter titled "*Holistic Research Perspectives (Design and Implementation of Wearable Photovoltaic Cell)*" Published by Centivens Institute of Innovative Research (CIIR) Pvt. Ltd., Coimbatore; VOL:5 ISBN: 978-81-942938-7-3; <https://doi.org/10.47059/CIIR/BP20002>

3. G. Jegadeeswari, C. Gnanavel authored a book titled “*High Voltage Engineering*” Published by ESN Publications; **ISBN: 978-81-944871-4-2**
4. G. Jegadeeswari, S. Prathiba, K. Vanchinathan, C. Gokul authored a book titled “*Basic Electrical Engineering*” Published by ESN Publications; **ISBN: 978-81-945156-2-3**
5. G. Jegadeeswari, R. Muthunagai, D. Lakshmi, S. Amirtharaj authored a book titled “*Fundamentals of Drives*” Published by ESN Publications; **ISBN: 978-81-945156-6-1**

JOURNAL PUBLICATIONS

1. B. Kirubadurai, S. Kanagaraja, **G. Jegadeeswari** “*Impact of BUE on surface ruggedness for machining of aluminium matrix composites (6061/fly ash)*” on *Advances in Materials and Processing Technologies*, September 2020/ Volume 6, Issue 3, ISSN: 2374-0698, Impact factor: 0.31, **Web of Science, SCOPUS**; <https://doi.org/10.1080/2374068X.2020.1823656>
2. S. Kanagaraja, B. Kirubadurai, **G. Jegadeeswari** “*Machining of Aluminum Fly ash Composite Effect of BUE on Surface Roughness*” on *Journal of Xidian University*, June 2020/ Volume 14, Issue 5, Pg no: 6044-6050, ISSN: 1001-2400, impact factor: 5.4, **SCOPUS**; <https://doi.org/10.37896/jxu14.5/655>
3. D. Lakshmi, S. Prathiba, **G. Jegadeeswari**, M. Balamurugan “*Improvement of Power Quality in Low Voltage Distribution Grids*” on *Test Engineering and Management*, January 2020/ Volume 82, Pg no: 1701-1705, ISSN: 0193 – 4120, impact factor, **SCOPUS**
4. Veerakumar. P, **G. Jegadeeswari**, Dr. C. Nayanatara “*IoT Based Integrated Home Security and Electrical Appliances Control System*” on *Test Engineering and Management*, January 2020/ Volume 82, Pg no: 1697-1700, ISSN: 0193 – 4120, impact factor, **SCOPUS**
5. **G. Jegadeeswari**, B. Kirubadurai, D. Lakshmi, “*Multi Carrier Based New Random Pulse Width Modulation For Three Phase Inverters*” at *International Journal of Scientific and Technology Research (IJSTR)*, February 2020/ Volume-9, Issue-2, Pg. no: 5425-5432, ISSN: 2277-8616, impact factor: 3.03, **SCOPUS / UGC**; <http://www.ijstr.org/paper-references.php?ref=IJSTR-0220-30544>
6. **Jegadeeswari. G**, Kirubadurai. B “*Design and Analysis of Annular Combustion Chamber with Different Types of Swirl to Perform Pressure Drop Study*” at *International Journal of Scientific and Technology Research (IJSTR)*, February 2020/ Volume-9, Issue-2, Pg. no: 1972- 1975, ISSN: 2277-8616, impact factor: 3.03, **SCOPUS / UGC**
7. **G. Jegadeeswari**, K. Kanagaraja, B. Kirubadurai, “*Optimization of Gas Turbine Blade Cooling System*” at *International Journal of Innovative Technology and Exploring Engineering (IJITEE)*, September 2019/ Volume 8, Issue 11, Pg.no: 4176- 4148, ISSN: 2278-3075, impact factor: 5.54, **SCOPUS / UGC**; <https://doi.org/10.35940/ijitee.K2163.0981119>
8. **G. Jegadeeswari**, “*Performance Analysis of Power Quality Improvement using Shunt Active Power Filter*” at *International Journal of Recent Technology and Engineering (IJRTE)*, January 2019/ Volume-7, Issue-5, Pg. no: 1-3, ISSN: 2277-3878, impact factor: 5.11, **SCOPUS / UGC**; <https://www.ijrte.org/wp-content/uploads/papers/v7i5s2/ES1995017519.pdf>
9. **G. Jegadeeswari**, M. Dheepak, S.V. Saravanan, V. Vanisree, “*The Power Factor Correction Improvement for A Single-Phase Ac/Dc Converter Using an Enabling Window Control*” at *International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)*, October 2018/ Volume 8, Issue: 5/ Page no: (41-48)/ ISSN 2249-6890/ Impact Factor: 7.612, **SCOPUS**; <https://doi.org/10.24247/ijmperdoct20186>
10. M. Dheepak, **G. Jegadeeswari**, Dr. S.V. Saravanan, R. Sundar-“*Humanoid Robot for Remote Surveillance*” at *International Journal of Mechanical Engineering and Technology (IJMET)*, August 2018/ Volume 9, Issue: 8/ Page no: (653-659)/ ISSN 0976 – 6359/ Impact Factor: 9.22, **SCOPUS**; <http://www.iaeme.com/citearticle.asp?Ed=12668&Jtype=IJMET&Vtype=9&Itype=8>
11. **G. Jegadeeswari**- “*Design and Implementation of THD Reduction for Cascaded Multilevel H-Bridge Inverter*” at *Journal of Advanced Research in Dynamical and Control Systems (JARDCS)*, November 2017/Volume 11, Special Issue/Page no : (638-644)/ ISSN 1943-023X / Impact Factor: 3.514, **SCOPUS/UGC**; <https://www.jardcs.org/backissues/abstract.php?archiveid=2043>