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Name of the Teaching Staff	Dr.V.JEGATHESAN			
Designation	Associate Professor			
Department / School	Department of Robotics Engineering School of Engineering and Technology			
Date of Joining the Institution	09.08.1999			
Qualification with Class / Grade	U G	PG	Ph.D.	
	Electrical and Electronics Engineering/ First Class	Applied Electronics / First Class with Distinction	Electrical Engineering	
Other Qualifications				
Area of Specialization	Industrial Automation, Power Electronics Controllers			
Research Interests	Industrial Automation, Machine learning techniques, Control System, Power Electronics Controllers			
Subjects Teaching	Under Graduate		Post Graduate	
	PLC and Automation Control System Sensors and Transducers Measurements and Instrumentation System Electric Circuits and Networks Signals and Systems Digital Signal Processing Network Theory Power Electronics Microprocessors and Micro Controllers Solid State Drives		Machine Learning Advanced Digital Signal Processing Advanced Power Converters	

Total Experience in Years	Teaching	Industry		Research	
	22	-		16	
Papers Published	National	1		International	36
Papers Presented in Conference	National	5		International	28
Conferences / Symposiums / Seminars / Workshops Participated	National	19		International	6
FDP / STTP / MDP / Summer / Winter School attended	7				
M.Phil. / Ph.D. Guide ship	Field			University	
Ph.D. Projects Guided	Ph.D.s	11	Project at Master's Level	17	
Professional Memberships	1. Life member in Indian Society for Technical Education 2. Life member in International Association of Engineers (IAENG) 3. Life Member in International Association of Computer Science and Information Technology (IACSIT)				
Consultancy Activities	Role: Chief Consultant of the Project Sponsor: First Choice Forex Services Pvt Ltd, Chennai Title : Design and Fabrication of electrical and instrumentation panel for Flaxseed oil extruder with cooling arrangements				
Awards & Honours	2011-012: Best Faculty Award in the department of Electrical and Electronics Engineering, Karunya University 2013 : Best researcher Award in the department of Electrical and Electronics Engineering, Karunya University 2014: Best SIEMENS Authorized training Centre Award by Siemens Limited, Mumbai 2016: P.K. Das Best Faculty Award by Nehru Group of Institutions, Coimbatore 2017: Best Research Paper Award				

Interaction with Professional Institutions	Siemens Ltd, Mumbai
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Papers Published	1. Caroline Ann Sam and V.Jegathesan, Bidirectional integrated on-board chargers for electric vehicles—a review, <i>Sadhana - Academy Proceedings in Engineering Sciences</i>, Scopus Indexed https://doi.org/10.1007/s12046-020-01556-2, Vol: 46, pp. 26, 1-14 issue: 1 2021 2. D.Jasmine David, V.Jegathesan, T. Jemima Jebaseeli, Distributed Optimal Congestion Control and Channel Assignment in Wireless Mesh Networks, <i>Telkomnika (Telecommunication Computing Electronics and Control)</i> http://dx.doi.org/10.12928/v19i2.16135, Scopus Indexed, Vol: 19, issue: 2 2021, pp. 414-420 3. Saju N, Jegathesan V, <i>Performance analysis of novel three stage dual active bridge based solid state transformer with dual secondary winding for renewable energy integration</i>, <i>Journal of Green Engineering</i>, Scopus Indexed, Vol: 10, issue: 9 2020, pp. 7278-7289 4. Saju N, Jegathesan V, <i>Ann driven dual active bridge based dual winding solid state transformer for power quality improvement</i>, <i>International Journal of Emerging Trends in Engineering Research (IJETER)</i>-ISSN:2347-3983, Scopus Indexed, Vol. 8, No. 09, September 2020, pp. 6030-6034 5. Saju N, Jegathesan V, Fuzzy Logic Fed Novel Dual Winding Solid State Transformer based on Dual Active Bridge for Power Quality Improvement, <i>International Journal of Emerging Trends in Engineering Research (IJETER)</i>-ISSN:2347-3983, Scopus Indexed, Vol. 8, No. 08, August 2020, pp. 4097-4101 6. D.Jasmine David, V.Jegathesan, T. Jemima Jebaseeli, Interference Aware Channel Assignment in Wireless Mesh Network, <i>International Journal of Engineering Trends and Technology (IJETT)</i> – ISSN: 2231-5381, Scopus Indexed <i>Volume 68 Issue 8 - Aug 2020</i>, pp. 1-6 7. Saju N, Jegathesan V, and Anusha S, Comparison of Total Harmonic Distortions in various Solid State Transformer Topologies, <i>International Journal of Advanced Science and Technology</i> ISSN: 2005-4238, Vol. 29, No. 04, June 2020, pp. 6877 –6888 8. Saju N, Jegathesan V, Aiswarya K P, Solid State Transformers: An Emerging Trend in Power Quality Improvement, <i>International Journal of Engineering Research and Technology</i>. ISSN 0974-3154 Scopus Indexed, Volume 13, Number 5 2020, pp. 900-908 9. Kalagotla Chenchireddy, V. Jegathesan, Multilevel Inverter Topologies with Sliding Mode Control: A Review, <i>International Journal of Advanced Science and Technology</i>, ISSN: 2005-4238, Volume. 29, No. 6 June 2020, pp. 8449-8460 10. Jasmine David, D., Jegathesan, V., Roopa Jayasingh, J., Performance of dynamic priority based interference aware channel allocation in wireless mesh networks for energy conservation , <i>International Journal of Innovative Technology and Exploring Engineering</i> ISSN: 2278-3075, Scopus Indexed, Volume-9 Issue-1, November 2019, pp. 5331-5335 11. Kalagotla Chenchireddy, V. Jegathesan, L. Ashok Kumar, A Fifteen Level Inverter Topology for Grid Connected Applications, <i>International Journal of Recent Technology and Engineering (IJRTE)</i> ISSN: 2277-3878 Scopus Indexed, Volume-8, Issue-2S11, September 2019, PP.1015-1018
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13. Kalagotla Chenchireddy, **V. Jegathesan**, L. Ashok Kumar, Design and Simulation of a Single Phase Four Level Neutral Point Clamped Inverter, International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Scopus Indexed, Vol. 8, Issue 2, July 2019, pp. 5285-5287.
14. Kalagotla Chenchireddy, **V. Jegathesan**, L. Ashok Kumar, A Unique Fifteen Level Inverter Topology for Grid Connected Applications, International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Scopus Indexed, Vol. 8, Issue 6S4, April 2019, pp 494-496
15. D.JasmineDavid, **V. Jegathesan**, Traffic aware channel assignment with node stability in wireless mesh networks, International Journal of Engineering & Technology (UAE), ISSN: 2227-524X, Scopus Indexed DOI: 10.14419/ijet.v7i4.20.22112, 7 (4.20) November 2018, pp 8-11
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18. K C Ramya, **V.Jegathesan**, Hysteresis Controlled Bidirectional DC-DC converter with improved time domain response, International Journal of Advanced in Management, Technology and Engineering Sciences ISSN: 2249-7455, Vol. 7 Issue. 10 2017, pp. 65-72
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20. D. Jasmine David, **V. Jegathesan**, Channel Assignment in wireless mesh Networks- A survey, Journal of Advanced Research in Dynamical & Control Systems ISSN: 1943-023X, Scopus Indexed, Vol. 9, Issue 12 September 2017, pp.484-501
21. Garapati Durga Prasad, **V. Jegathesan**, Veerasamy Moorthy, Minimization of power loss in newfangled cascaded H-bridge multilevel inverter using in-phase disposition PWM and wavelet transform based fault diagnosis, Asin Shams Engineering Journal, Elsevier (<http://dx.doi.org/10.1016/j.asej.2016.09.008>) ISSN: 2090-4479, Scopus Indexed, Vol. 9 Issue. 4 December 2018, pp. 1381-1396
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wireless mesh network security, International conference on Innovations, Engineering, Science and Technology-ICIEST'18, during 6th -8th March 2018, Christian College of Engineering and Technology, Oddanchatram, TN

11. Durga Prasad G **Jegathesan V**, PVV Rama Rao, Hybrid multilevel DC link Inverter with reduced power electronic switches, International conference on Power Engineering Computing and Control-PECCON'17, during 2nd-4th March 2017, VIT University, Chennai Scopus Indexed
12. Durga Prasad G **Jegathesan V**, Development of Multilevel Inverter with reduced components fault identification using wavelets, International conference on Electrical, Electronics & Computer Engineering-ICEECE'16, Vivekanandha College of Engineering for Women, Tiruchencode, 22nd-23rd March 2016
13. Durga Prasad G N V Ramana PVV Rama Rao **Jegathesan V**, Integrated PV & Multilevel DC link Inverter system to overcome the PV partial shading using permutation algorithm, International conference on Electrical, Electronics & Computer Engineering-ICEECE'16, Vivekanandha College of Engineering for Women, Tiruchencode, 22nd-23rd March 2016 ISBN: 978-93-81830-95-6
14. M.Tamilarasi, D.Jasmine David, **V.Jegathesan**, A Channel Assignment wireless mesh Networks based on Collaborative Learning Automata, International Conference on Recent Advances in Communication Systems And Technology-ICRACST 2016, Francis Xavier Engineering College, 2nd March 2016
15. SriVidya E V, **V. Jegathesan**, A modified control approach for power factor correction in AC/DC boost converter, IEEE-International Conference on Innovations in Information, Embedded & Communication Systems ICIIES-2015, 19th-20th March 2015, Karpagam College of Engineering, Coimbatore Scopus Indexed
16. Athira PAshok, **V.Jegathesan**, Derick Mathew, Multi-loop Feedback Control Design of a Single Ended Primary Inductance Converter, IEEE-International Conference on Computation of Power, Energy, Information and Communication (ICCPEIC), April 16th-17th, 2014, Athiparasakthi Engineering College, Chennai,Tamilnadu
17. G.Durga Prasad, G. Madhu Sagarbabu, **V.Jegathesan**, G Saibaba, Asymmetric Multilevel DC link inverters fed Induction Motor, IET International Conference on Energy Technologies for sustainability, April 7-9,2014, St.Xavier's Catholic College of Engineering, Nagercoil, Tamil Nadu
18. Jasmine David D, **V.Jegathesan**, Efficient channel assignment and routing in wireless mesh network, International Conference on Current Trends in Engineering and Technology, ICCTET 2013; July 1st 2013, Coimbatore; India; Pages 67-73 Scopus Indexed DOI: 10.1109/ICCTET.2013.6675913
19. B.Subanandhini, **V.Jegathesan**, Application of Hysteresis Pulse Width Modulation for Multilevel Inverters, IEEE-International Conference on Advances in Engineering, Science and Management, (ICAESM-2012), March 30th -31st, 2012. EGS Pilay Engineering College, Nagapattinam, Tamilnadu Scopus Indexed
20. Kishore Raju Indukuri and **V.Jegathesan**, Design and operation of high frequency Bi-directional series resonant DC/DC Converter, International Conference on Computing Techniques, Embedded Systems & Drives

	(ICCED'12), March 7th -9th, 2012.PPG Institute of Technology, Coimbatore 21. V.Jegathesan, and M.Harsha Vardhan Reddy, Simplified SVPWM Based Hybrid PWM for Induction Motor drives for the Reduction of Torque Ripples, International Conference on Sustainable Energy and Intelligent System (SEISCON 2011), July. 20-22, 2011. Dr. MGR Educational and Research Institute, Chennai ISBN: 978-9-38043-000-3 Scopus Indexed 22. V.Jegathesan, and M.Harsha Vardhan Reddy, Open loop V/f Control of Induction Motor based on hybrid PWM With reduced torque ripple, International Conference on Emerging Trends in Electrical and Computer Technology (ICETECT-2011), March 23rd-24th 2011, St.Xavier's Catholic College of Engineering, Kanyakumari, Scopus Indexed 23. V.Jegathesan, and M.Harsha Vardhan Reddy, Speed Control of Space vector Modulated Inverter Driven Induction Motor using Fuzzy Logic Controller, International Conference on Power, Control and Embedded Systems (ICPCES-2010), November 28th December 1st 2010, Motilal Nehru National Institute of Technology Allahabad 24. V.Jegathesan, M.Harsha Vardhan Reddy and N.Gowri Priya Mandapati, Space vector pulse width modulation of inverter and its harmonic elimination using state space analysis, International Conference on Emerging Trends in Engineering Technologies (ICETES-2010), March 25th-26th 2010, Noorul Islam University, Kumarkoil, Nagercoil 25. V.Jegathesan, Genet George, Eliminating Current Distortion in Four Switch Inverter International Conference on Emerging Trends in Engineering Technologies (ICETES-2010), March- 2010 26. V.Jegathesan, Jovitha Jerome, solution for PWM converter switching for Voltage Source Inverter using Non- Traditional Method, IEEE/PELS International Conference on Power Electronics and Drives Systems (PEDS 07), Bangkok, Thailand, November 27th-30th 2007, Scopus Indexed 27. V.Jegathesan, Jovitha Jerome and S. Justin, Evolutionary-Programming-based solution for PWM converter switching for Voltage Source Inverter, IEEE International conference on 'Recent Advancements and Applications of Computer in Electrical Engineering (RACE-2007), March 24th-25th 2007, Bikaner 28. V.Jegathesan, Thomas Joseph and M.S.P. Subathra, Application of a Bi-directional Associative Memory Network for Fault Diagnosis in a HVDC Systems, 28th Annual Convention and Exhibition of IEEE India Council – EPIC-2002 –Jadavpur University, Kolkata, 20th-21st December 2002, Science city, Kolkata 700046
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Books /Book Chapters	1. Performance of the multicarrier sinusoidal PWM-based multilevel inverter with reduced power loss and fault diagnosis using wavelets transformation: Hybrid multilevel inverter –Scopus Indexed Title of the Book: Handbook of Research on Power and Energy System Optimization 16 March 2018, Pages 353-397 2. Different Topologies of Inverter: A Literature Survey–Scopus Indexed Title of the Book: Innovations of Electrical and Electronics Engineering-Part of the Lecture Notes in Electrical Engineering book series, Volume 626, 24 March 2020, Pages 35-43 3. Recent Trends in Channel Assignment Techniques in Wireless Mesh Networks–Scopus Indexed Title of the Book: Deep Learning Strategies for Security Enhancement in Wireless Sensor Networks 16 March 2018, Pages 155-176 4. A review paper on the elimination of low-order harmonics in multilevel inverters using different modulation Techniques-Scopus Indexed Title of the Book: Innovative Communications and Computational Technologies -Part of the Lecture Notes in Networks and Systems book series, Volume 145, 25th September 2020, Pages 961-971