



Dr. Geetha Ramadas

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### ACADEMIC QUALIFICATIONS

B.Tech (Electrical Engineering)	N S S College of Engineering, Palakkad, University of Calicut- 1986– Secured First Class with Honours
M. E (High Voltage Engineering)	College of Engineering, Guindy, Chennai-2001- secured First Class
Ph.D. (Induction Motor Design and Control)	College of Engineering, Guindy, Chennai-2011

### EXPERIENCE & POSITIONS OF RESPONSIBILITY

<b>Teaching</b>	<ul style="list-style-type: none"><li>• Polytechnic Level – 4 years (1990 June-1994 July) in V P M’s Polytechnic, Thane, Mumbai   Subjects Taught: Electrical Machines, Electrical Measurements, Testing and Maintenance of Electrical Apparatus-</li><li>• Under-Graduate Level – 23 years (from 1994 August to 1998 September I Bharat Engineering College, Chennai and from 1998 October till date in R M K Engineering College, Chennai)   Subjects Taught: Electrical Machines, Design of Electrical Machines, Power System Economics, Power System Transients, High Voltage Engineering, Control Systems, Measurements and Instrumentation, Utilization of Electrical Energy</li><li>• Post Graduate Level – 11 years in R M K Engineering College, Chennai  Subjects Taught: Analysis of Electrical Machines, Analysis of Inverters, AC Drives</li></ul>
<b>Industry</b>	<ul style="list-style-type: none"><li>• Management Trainee- 4 months in M/S Printokraft India Pvt. Ltd., Mumbai)</li><li>• Production Manager – 1 year and 8 months in M/S Printokraft India Pvt. Ltd., Mumbai)</li></ul>

<b>University Examinations</b>	<ul style="list-style-type: none"> <li>• Question paper setter - for Anna University, Chennai, Sathyabama University Chennai, Savitha University Chennai, Annamalai University, Chidambaram</li> <li>□ Examiner for University Theory and Practical Examinations at both U G and P G level</li> </ul>
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**RESEARCH | PUBLICATIONS, PAPER PRESENTATION & PROJECTS GUIDED**

<b>Consultancy</b>	Provided Research Consultancy to automate a bowl mixer which is used to mix sand and bond in appropriate proportion required for the production of abrasive products at Abref Pvt Ltd, Gummidipoondi.
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<b>Publications</b>	<ol style="list-style-type: none"> <li>1. Geetha Ramadas, Thyagarajan. T and Vedam Subrahmanyam, “Robust Performance of Induction Motor Drives”, International Journal of Recent Trends in Engineering, Vol.1, No.3, pp25-29, 2009.</li> <li>2. Geetha Ramadas, Thyagarajan. T and Vedam Subrahmanyam, “Torque Ripple Minimization in Doubly Fed Induction Machines used in wind Mills using Artificial Neural Network”, Journal of Applied and Theoretical Information Technology, Vol 17, No.1, pp 053-057, 2009</li> <li>3. Geetha Ramadas, Thyagarajan. T and Sridhara Rao G, “ Energy Efficient Design of Induction Motor for Tailor made Applications”, International Journal of Recent Trends in Engineering and Technology, Vol. 4, No.4, 2010.</li> <li>4 T Mahesh, Geetha Ramadas, C Chellamuthu and M. Parameswari, “Measurement and Analysis of Power Quality Issues in Wind Farms-A Real case study”, International Journal of Applied Engineering Research ISSN 0973-4562 Volume 10, Number 14 (2015) pp 34883-34888</li> <li>5 M.Ranjitha and Geetha Ramadas, “Investigation of High Efficiency Bidirectional DC-DC Converter Using Fuzzy Control”, International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.36 (2015). pp.27775-27780</li> <li>6 Geetha Ramadas, Manoj Kumar Nadesan, Sukhi Yesuraj,,and Jeyashree Yesuraj, “High power factor electronic ballast using resonant converter for compact fluorescent lamp” International Journal Of Circuit Theory And Applications, Int.J. Circ. Theor. Appl. (2016) Published online in Wiley Online Library (wileyonlinelibrary.com). DOI: 10.1002/cta.2231</li> <li>7 Geetha Ramadas, Manoj Kumar Nadesan and C Chellamuthu, "A novel multilevel inverter circuit for the performance enhancement of Direct Torque Controlled Induction Motor".(Annexure 1) Circuits and</li> </ol>
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Systems, 2016, Published Online July 2016

8. Sukhi Yesuraj ,Geetha Ramadas and Jeyashree Yesuraj, “High- Power-Factor Single-Switch AC to DC Converter for LED Lighting, IEEJ Transactions on Electrical and Electronics Engineering” July 2017
9. Mallavolu Malleswararao, **Geetha Ramadas**, “ Design and I Implementation of Multilevel UPFA with Fuzzy Logic Controller for the Solution of Transmission Congestion Related Issues”, International Journal of Engineering Research & Technology, ISSN 2278-0181, Vol.No. 7, Issue 02, February 2018.
10. Geetha Ramadas, “Vision Controlled Robotic System” International Journal of Innovative Technology and Exploring Engineering, Dec 2019
11. Mallavolu Malleswararao, **Geetha Ramadas**, “Transmission Congestion & Voltage Profile Management using Modular Multi Level UPFC” International Journal of Innovative Technology and Exploring Engineering, Dec 2019
12. Mallavolu Malleswararao, **Geetha Ramadas**, “ Multiobjective Improved Particle Swarm Optimisation For Transmission Congestion And Voltage Profile Management Using Multilevel UPFC”,December 2019

<p><b>Paper Presentation (Abstracts)</b></p>	<ol style="list-style-type: none"> <li>1. Geetha Ramadas, Thyagarajan. T and Vedam Subrahmanyam, Robust Speed Sensor less control of Induction Motor Drives “, 7<sup>th</sup> International conference on Power Electronics organized by Korean Institute of Power Electronics, South Korea, October 2007</li> <li>2. Geetha Ramadas, Thyagarajan. T, Sridhara Rao G and Durgadevi S, “Induction Motor Design Optimization using genetic Algorithm”, International Conference on convergence of science and Engineering in Education and Research, A Global Prospective, organized by Dayanand sagar College of Engineering, Bangalore, April 2010. <b>Received Best Paper Award in the conference</b></li> <li>3. Sandhya P S, Geetha Ramadas, T Thyagarajan and Vedam Subrahmanyam, “On line Estimation of Rotor Resistance in a Vector Controlled Induction Motor to Retain Robustness, National conference on Communication, Computation, Control and Automation, organized by Sri Ramakrishna Institute of Technology, Coimbatore, 2008. Received Best Paper Award in the conference</li> <li>4. Geetha Ramadas, Thyagarajan. T and Sridhara Rao G, “ Optimized Induction Motor Design using Genetic algorithm”, Internation conference on “Power, Control and Embedded Systems”, organized by the Department of Electrical&amp; Electronics Engineering, College of Engineering Guindy, Chennai, December 2010.</li> <li>5. Shimila R, Geetha Ramadas, Thyagarajan Tand Vedam Subrahmanyam, “ Torque Ripple minimization in Doubly Fed Induction Machine Using Neural Network”, National Conference on Innovatiove Vogue in Electroincs and Communication Engineering, organized by Madha Engineering college, Chennai, 2009</li> <li>6. Geetha Ramadas and D Nageswari, “ fuzzy logic Tuned Direct Torque Control for Torque Ripple Reduction”, National Conference on Innovatiove Vogue in Electroincs and Communication Engineering, organized by Madha Engineering college, Chennai, 2009</li> <li>7. Shalini G, Geetha Ramadas, Thyagarajan T and Sridhara Rao G, “Optimal Tuning of PI Controller using Genetic Algorithm for Induction Motor speed Control” Organized by Sri Sairam engineering College, 2010. Ms.Geetha Ramadas and Nirosa Modepalli,”Induction Motor Indirect FOC with online tuning of Resistance”National conference onTAPSPEE-11, April20- 21<sup>st</sup>, 2011 at Eswari Engineering College, pp72-73.</li> <li>8. Dr. K.A Mohamed Junaid, Dr. V Srinivasan, Dr. Geetha Ramadas and Dr. Pavai Madheswari, “Automatic Evaluation System for attainment of course outcomes in Outcome Based Education: A case study, 4<sup>th</sup> World summit on Accreditation, 7<sup>th</sup> to 9<sup>th</sup> September 2018</li> <li>9. Ms.Geetha Ramadas and Nirosa Modepalli,”Induction Motor Indirect FOC with online tuning of Resistance”National conference onTAPSPEE-11, April20- 21<sup>st</sup>, 2011 at Eswari Engineering College, pp72-73.</li> <li>10. Dr. K.A Mohamed Junaid, Dr. V Srinivasan, Dr. Geetha Ramadas and Dr. Pavai Madheswari, “Automatic Evaluation System for attainment of course outcomes in Outcome Based Education: A case study, 4<sup>th</sup> World summit on Accreditation, 7<sup>th</sup> to 9<sup>th</sup> September 2018</li> </ol>
<p><b>Projects Guided</b></p>	<p>PG: 12 UG: 25</p>

<b>Academic Administration</b>	<ul style="list-style-type: none"> <li>● Coordinator, College Annual Day Program (2009- 2013)</li> <li>● In Charge of the department (2005-2008)</li> <li>● Head of the Department (2008- Till date)</li> </ul> <p style="margin-left: 40px;">Programs offered by the Department:</p> <p style="margin-left: 80px;">UG(Intake : 120) PG : Power Electronics &amp; Drives Doctoral Program</p>
<b>Seminars &amp; Conferences</b>	<ul style="list-style-type: none"> <li>● Organizing Secretary, “National Workshop on Wavelet Applications to Electrical Engineering” 27-29 January 2008.</li> <li>● Organizing Secretary, “National Workshop on MagNet-A Design tool” 21-22 February 2009.</li> <li>● Work shop on “How to Plan, Write and Publish Research Paper in Refereed Journal” during December 2013</li> <li>● Organized Work shop on “Power Simulation Tools- PSCAD &amp; ETAP” during September 2013.</li> <li>● Organized one Work shop on “Design of Automotive</li> </ul>
	<p style="margin-left: 40px;">Robo” in RMK Engineering College during 25<sup>th</sup> June 2015</p> <ul style="list-style-type: none"> <li>● Organized One day International Workshop On Optoelectronic Devices and Embedded systems, 2014</li> <li>● .Convener, National Conference on “Power Electronics and Drives” Organized by the Department of EEE, R M K Engineering College, Chennai- being organized every year.</li> </ul>
<b>Conferences/</b>	
<b>Seminars Attended From 1998-13</b>	<ul style="list-style-type: none"> <li>● Conferences:12</li> <li>● Workshops:12</li> <li>● Participated in 3 day workshop on “Outcome Based Accreditation” organized by National Board of Accreditation</li> </ul>
<b>Professional Society Membership</b>	<ul style="list-style-type: none"> <li>● Indian Society for Technical Education-Life Member</li> <li>● IEEE -Annual membership</li> <li>● FIE- Life Member</li> </ul>
<b>Strength</b>	<ul style="list-style-type: none"> <li>● Unparalleled commitment &amp; zeal for excellence</li> <li>● Compassionate yet rational</li> <li>● Can motivate students and faculty</li> </ul>
<b>Weakness</b>	<ul style="list-style-type: none"> <li>● Handling stress</li> <li>● Reluctant to decline any request/task</li> </ul>
<b>Passion</b>	<ul style="list-style-type: none"> <li>● Teaching and being with students</li> </ul>
<b>Hobbies</b>	<ul style="list-style-type: none"> <li>● Reading, Travelling, Admiring the nature and listening to music</li> </ul>