


FACULTY PROFILE

Name of Teaching Staff / RMK ID	GEETHA RAMADAS/T0053			
Designation	Professor and Head			
Department	EEE			
Date of Joining the Institution	05.10.1998 -Regular Faculty			
Qualifications	B. Tech - Electrical Engineering (Regular)	M.E-High Voltage Engineering (Regular)		PhD-Design and Control of Induction Motors using soft computing techniques (Part time)
Total Experience	Overall: 33		in RMK: 25	
Papers Published in Journal	Overall : 24		After Joining RMK :24	
List of Papers Published	<div>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.</div> <div>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</div> <div>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.</div> <div>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</div> <div>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</div> <div>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.</div>			

	<p>Appl. (2016) Published online in Wiley Online Library (wileyonlinelibrary.com). DOI: 10.1002/cta.2231</p> <ol style="list-style-type: none"> 7. Geetha Ramadas, Manoj Kumar Nadesan and C Chellamuthu, "A novel multilevel inverter circuit for the performance enhancement of Direct Torque Controlled Induction Motor".Circuits and Systems, 2016, Published Online July 2016 8. Sukhi Yesuraj, Geetha Ramadas and Jeyasree 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 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. Mallavolu Malleswararao, Geetha Ramadas, "Transmission Congestion & Voltage Profile Management using Modular Multi Level UPFC", International Journal of Innovative Technology and Exploring Engineering, Dec 2019. 11. Mallavolu Malleswararao, Geetha Ramadas, "Multiobjective Improved Particle Swarm Optimisation for Transmission Congestion and Voltage Profile Management Using Multilevel UPFC" December 2019. 12. Geetha Ramadas, Sukhi Y, Vision Controlled Robotic System, International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-9, November 2019 13. Mallavolu Malleswararao, Geetha Ramadas, "Transmission Congestion & Voltage Profile Management using Modular Multi Level UPFC" International Journal of Innovative Technology and Exploring Engineering, Dec 2019. 14. Mallavolu Malleswararao, Geetha Ramadas, "Multiobjective Improved Particle Swarm Optimisation For Transmission Congestion And Voltage Profile Management Using Multilevel UPFC", December 2019 15. Mallavolu Malleswararao, Geetha Ramadas, "Grid Congestion & voltage Profile Management in Distributed Generation using UPQC with MOABC Algorithm, SPC Journal of Energy, 2020. 16. M. Ganesan, Geetha Ramadas, Y Sukhi, "Smart Vision Glasses for Poor Eye Sight", TEST Engineering & Management, 2020 17. M. Perarasi, Geetha Ramadas, "A Novel Cooling Method To Improve the Efficiency of PV Panel" Solid State Technology, 2020 18. Geetha Ramadas, Vimala M, T R Surya, A Thulsimani, A M Venkatesh, Sivaprakashraj, Geetanjali Baskar, " Solar UPS Powered by Lithium Ion Battery, ISSN: 2237-0722, Innovation, Technology and Management Journal, Vol. No11, No.4. July 2021
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	<p>19. Vimala Muthu, Geetha Ramadas, "Experimental Investigation of 4E performance studies of a vertical bifacial solar module during summer and winter" Environmental Science and Pollution Research, 22 October 2021</p> <p>20. K.R. Chairmalakshmi, Geetha Ramadas, "Dust Deposition's Effect on Solar Photovoltaic Module Performance An Experimental Study in India's Tropical Region, Journal of Renewable Materials, January 2022</p> <p>21. Mallavolu Malleswararao, Geetha Ramadas, "Hybrid Algorithm to Improve Voltage Quality & Congestion Control in Power System using Modular Multi-level UPFC", Neuroquantology, June 2022</p> <p>22. Vimala Muthu, Geetha Ramadas, "A Comprehensive 4E Study on the Performance of Bifacial Solar Module Installed on Different Ground Surface Colors: An Experimental Study on a Specific Site" Journal of Solar Energy Engineering, ASME – October 2022.</p> <p>23. Muthu, V., Ramadas, G. Performance studies of Bifacial solar photovoltaic module installed at different orientations: Energy, Exergy, Enviroeconomic, and Exergo-Enviroeconomic analysis. Environ Sci Pollut Res 30, 62704–62715 (2023). https://doi.org/10.1007/s11356-023-26406-6.</p> <p>24. Vimala, Muthu, Geetha Ramadas, Muthaiya Perarasi, Athikesavan Muthu Manokar, and Ravishankar Sathyamurthy. "A Review of Different Types of Solar Cell Materials Employed in Bifacial Solar Photovoltaic Panel." Energies 16, no. 8 (2023): 3605.</p> <p>25. J. C. Vinitha¹ · Geetha Ramadas² · P. Usha Rani, "PSO Based Fuzzy Logic Controller for Load Frequency Control in EV Charging Station", Journal of Electrical Engineering & Technology, July 2023</p>	
Papers Presented in Conferences (Scopus / WoS indexed only)	Overall: 15	After Joining RMK :15
Ph.Ds / Projects Guided	Ph.Ds Guided : 14	Student Projects Guided :25
Books Published:	Nil	
Patents	Published Count :4	Granted Count :3

	<p>List :</p> <p>Granted</p> <ol style="list-style-type: none"> 1. Extending the Shelf Life of the Food by Microbial Inactivation using Continuous and Flash Process Based on Ohmic Heating. Patent No 340739 2. Photovoltaic driven high-precision temperature-controllable peltier domestic cooler/warmer Patent No 354425 3. Hydroponics controller with automation, remote monitoring, and control using IoT patent No: 420534 <p>Published</p> <ol style="list-style-type: none"> 1. Continuous Power Supply From Solar Panel By Using IRLED Lights. Application No. 202141058741 2. Accelerate Recognition Pen Application No. 202241019795 3. Bionic Eye- Visual Cortical Prosthesis System . Application No 202141058735 4. Water Tank Electricity Generator Application No. 202219798
Professional Memberships	Count :2
	List : FIE, MISTE
Consultancy Projects Completed	Count :4
Awards Received	Count : 2
	List : Best Faculty Advisor Award -2021 and 2022-Institution of Engineers India
Research grants Received	1
Orchid Link / ID	ID : http://www.orcid.org/0000-0001-6487-1057
Google Scholar Link / ID	ID : http://scholar.google.co.in/citations?user=0bjgLNwAAAAJ
Vidwan Link / ID	ID : https://vidwan.inflibnet.ac.in/profile/305170
Research Gate Link / ID	http://www.researcherid.com/rid/AAE-7299-2019
Scopus Link / ID	ID : http://www.scopus.com/authid/detail.url?authorId=56801742600