



**S.RAJKUMAR**

**Designation: Assistant Professor (SG)  
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**Professional Objective:**

Seeking excellence in the chosen professional field through self-motivation, hard work and augmentation of core skills required to effectively deliver goods. Striving to achieve excellence through selective and focused pursuit of the short and long-term goals and trying to create an environment through my chosen organization and work field where knowledge and excellence are given their due.

**Career profile:**

To dedicate myself to the professional of Electrical and Electronics Engineering where I can apply my skills and knowledge impractically and giving the best of mine to the concern and also develop myself.

**Educational qualification:**

**POST GRADUATE- M.E**

Specialization : Power Electronics and Drives  
Institute : Mailam Engineering College,  
Anna University.  
Completed year : May-2008

**UNDER GRADUATE – B.Tech**

Major : Electrical and Electronics Engineering  
Institute : Rajiv Gandhi College of Engg & Technology,  
Pondicherry University  
Completed year : May- 2006

**DIPLOMA**

Major : Electrical and Electronics Engineering  
Institute : Sri Ventachalapathy Polytechnic,  
Villapuram, Tamil Nadu Board  
Completed year : May- 2003

**Work experience: (starting from present position)**

S.No	Employer	Designation	Period of Service	Nature of Work
1	Manakula Vinayagar Institute Of Technology, Puducherry-605107	Lecturer	From june-2008 to june -2011	Teaching and other curricular activities
2	Manakula Vinayagar Institute Of Technology, Puducherry-605107	Assistant Professor	From june-2011 to june -2015	Teaching and other curricular activities
3	Manakula Vinayagar Institute Of Technology, Puducherry-605107	Assistant Professor SG)	From july -2015 to Till date	Teaching and other curricular activities

**Teaching Activities: (Subjects Taught)**

**(i) Under Graduate :**

1. Basic Electrical and Electronics Engineering
2. Electric Circuit Analysis
3. Electrical Engineering
4. Pulse and Digital Circuits
5. Energy Engineering
6. Utilization of Electrical Energy
7. Special Electrical Machines

**(ii) Post Graduate: NIL**

**(iii) Laboratories handled:**

1. Basic Electrical and Electronics Engineering Lab
2. Electrical Engineering Lab
3. Digital Electronics Lab
4. Electronics III Lab

**Consultancy and Sponsored Research activities:**

Name of the Scheme	Project Title	Duration	Amount Sanctioned	Status Completed/* Ongoing
ISTE Short Term Training Program	Contemporary world of Electricity-Solar Energy	27 <sup>th</sup> Nov to 01 <sup>st</sup> Dec 2017	Dr.R.Valli Mr.S.Rajkumar	Self Finance
AICTE Sponsored Two weeks FDP	Analysis and modeling of motors using FEM package [ANSYS]	18 <sup>th</sup> Nov to 30 <sup>th</sup> Nov 2013	5,00,000	Completed

**Paper Publications / Presentation:**

	<b>Published</b>	<b>Accepted</b>	<b>Communicated</b>	<b>Total</b>
<b>International Journal</b>	NIL	----	----	NIL
<b>National Journal</b>	1	-	-	1
<b>International Conference</b>	3	-	-	3
<b>National Conference</b>	8	-	-	8

**FDP/STTP/Workshops attended: 20**

**Reviewer for the journals: NIL**

**Research guidance: NIL**

**Project Guidance: 12**

**Guest Lectures delivered: NIL**

**Professional Membership: Life Member of ISTE**

## ANNEXURE

### **FDP/STTP/WORKSHOPS ATTENDED:**

1. National Work Shop on Power Electronics (NWPE-2006).[Indian Institute of Technology-Kanpur, U.P, India]
2. Short Term Training Program on Emerging Trends in Embedded and Wireless technology. [ Mailam Engineering College,Mailam-604304]
3. Recent Trends in Wind Power Generation and Facts.[National institute of Technology, Tiruchirapalli-620015]
4. Two days National level Workshop on” Advances in Design and control for Performance Enhancement in permanent Magnet motors” on 20<sup>th</sup> & 21<sup>st</sup> April 2011 at Pondicherry Engineering College.
5. AICTE Sponsored SDP on “Alternative Energy system for Near Future “on 21<sup>st</sup> June to 2<sup>nd</sup> July 2012 at SMVEC.
6. AICTE Sponsored Two weeks FDP on “Analysis and modeling of motors using FEM package [ANSYS] on 18<sup>th</sup> Nov to 30<sup>th</sup> Nov 2013 at MIT.
7. AICTE sponsored two days National Technical seminar on “Power Electronics Applications in Renewable Energy Sources” on 19<sup>th</sup> & 20<sup>th</sup> Dec 2013 at Mailam.
8. IEEE sponsored one day workshop on “Power Electronics applications in Renewable energy source” on September 2014 in EGS Pillai.
9. Participation in one day seminar on “Research & Development in Engineering Institutions” in MIT.
10. Participation in one day workshop on “Writing Scientific Research Paper” organized by SSN, Chennai .
11. Participated in ISTE Sponsored one day “HANDS ON TRAINING IN EMBEDDED SYSTEMS” on 21.11.2015 at MVIT, Pudhucherry.
12. Participated in Three days Faculty Development Program on E-Literacy Level II (Advanced Teaching Techniques) at ICTACT, Pudhucherry.
13. Attended two days faculty development Programme on “solar energy –technology & products” ” organized by PHOCOS solar India private limited 9<sup>th</sup> -10<sup>th</sup> June 2016.
14. Participated one day seminar on Accreditation –Norms, Standards, Implementation In Technical Education Dr.Alagumurthy, Professor, Pondicherry engineering college 4<sup>th</sup> June 2016.
15. Attended three days Workshop on “ Hands on Training Power Electronics Drives and Control Systems” from 18.05.17 to 20.05.17 at Karaikal in NIT Pondy.
16. Participated three days Professional development workshop, titled “TEACH – Transform Empower and Change” on 15th June to 17th June 2017 organized by MVIT.

17. Participation in CSIR Sponsored two days workshop on “Recent Trends In Hybrid Power Generation” at MIT from 31.06.2017 to 01.07.2017.
18. Attended a one day FDP on “Electro Magnetic Transient Program (EMTP-RV) for power System Applications” at AMET University 22.09.2017, Chennai.
19. Participated one day workshop titled "Energy conservation and its methodology" on 19th Nov 2017 organized by Puducherry HR Circle & MVIT.
20. Participated ISTE one week STTP titled “Contemporary World of Electricity - Solar Energy" on 27th Nov to 1st Dec 2017 Organized by MVIT.

### **Paper Publications / Presentation:**

1. Torque to Weight Ratio Improvement of High Speed Switched Reluctance motor Using Soft Magnetic Composite Material.
2. Energy conversion of Switched Reluctance Generators Using Wind Power Applications.
3. Two dimensional (2D) static analysis of Switched Reluctance motor Using Soft Magnetic Composite Material Magnetic and Vibration Analysis.
4. High Speed Switched Reluctance motor Using Soft Magnetic Composite Material for aerospace application.
5. Mechanical characterization of High speed Switched Reluctance Motor Using Soft Magnetic Composite Material-22-03-2013/Mailam.
6. Mechanical characterization of High speed Switched Reluctance Motor Using Soft Magnetic Composite Material & M19 Steel Material-06-04-2013/IFET.
7. “Design And Analysis Of High Speed Switched Reluctance Motor For Two Different Materials” proceedings of national level Technical conference & Journals at jeppiar Institute of technology (IJEETC).2015
8. “Voltage Sag Mitigation Using Dynamic Voltage Restorer” proceedings of national level Technical conference & Journals at EGS pillai./2015.
9. “Voltage Sag Mitigation Scheme based on Power Quality Using Dynamic Voltage Restorer” published in IJAER journal under Vol.10 issue no.51
10. High torque to weight ratio and cost estimation of cage induction motor with finite element method for hybrid vehicle” paper accepted in IEEE conference organized by IICIRES2017.
11. “S.Rajkumar, (Jun. 2017) ‘High Torque to Weight Ratio and Cost Estimation of Cage Induction Motor with Finite Element Method for Hybrid Vehicle ’, Proc. *IEEE Technically Sponsored International Conference on Innovative Research in Electrical Science (IICIRES2017)*, E.G.S Pillay Engineering College, Nagapattinum, Tamil Nadu, India. (Scopus) .

### **PROJECT GUIDED FOR UNDER GRADUATE STUDENTS**

1. Analysis and characterization of modified Switched Reluctance Motor 6/4 : Static, Thermal ,Vibration Analysis.- 2012 batch
2. Advanced Power Distribution system – 2013 batch

3. Analysis and characterization of modified Switched Reluctance Motor 12/8: Static, Thermal, Vibration Analysis.- 2014 batch
4. Analysis of Brushless DC Motor: Static, Thermal, Vibration Analysis.- 2014 batch.
5. A New Seven Level Multilevel Inverter With Minimum Number Of Switches -2015 batch
6. High Gain Soft Switching Bidirectional Dc- Dc Converter for Eco- Friendly Vehicles-2015 batch.
7. Design And Implementation Of Energy Management System And Automation Using Power Line Communication -2016 batch
8. High Voltage SIC Based Boost PFC for LED Application-2016 batch
9. Fast power switch failure detection for fault tolerance voltage source inverter using micro-controller -2017 batch
10. Solar Water Pump Without Using Starter -2017 batch.
11. IOT based Smart Monitoring And Controlling By Using Plc And Scada -2018 batch
12. Substation Automation System For Monitoring and Control Using Scada – 2018 Batch.