

K.S.R. COLLEGE OF ENGINEERING, TIRUCHENGODE – 637 215.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

FACULTY PROFILE



01. Name : Dr.M.Vijayakumar

02. Designation : Assistant Professor

03. Date of Birth : 26.05.1981

04. Date of Joining : 01.12.2010

05. Professional Membership : ISTE

06. Qualification:

S.No.	Qualification	Specialization	Name of the Institution	Affiliated to	Year of Completion	Class & % of Marks
1	Ph.D	Special Electrical Machines	Anna University, Chennai	Anna University, Chennai	2020	-
2	M.E.	Embedded System Technologies	K.S.R College of Engineering	Anna University, Coimbatore	2009	8.70 CGPA
3	B,E	EEE	Kongu Engineering College	Bharathiyar University	2004	68.91

07. Area of Interest : Special Electrical Machines, Embedded Systems.

08. Experience, Promotion & Designation Details (Chronological):

S.No.	Name of the Organization	Designation	Period	
			From	To
1	K.S.R. College of Engineering, Tiruchengode, Namakkal District.	Assistant Professor	01.12.2010	Till Date
2	K.S.R. Polytechnic College, Tiruchengode, Namakkal District.	Lecturer	15.07.2009	30.11.2010
3	K.S.R. Polytechnic College, Tiruchengode, Namakkal District.	Lecturer	03.06.2005	06.08.2007
4	Sri Ragavendra Polytechnic College, Kumarapalayam, Namakkal District.	Lecturer	28.06.2004	27.05.2005

09. Publication Details:

	*National Level		*International Level	
	Journal(s)	Conference(s)	Journal(s)	Conference(s)
KSRCE	1	2	3	7
Others	-	2	-	-

***-Annexure**

10. Details of Monographs, Books & Patents

S.No.	Title	Name of the author(s)	Publisher Name	Year of publication
1	ECO-Friendly and Cost-Effective Panels for Smart Grids From Spatiotemporal Optimization of Charging E-Vehicles	Dr.M.Vijayakumar	Patent Journal Application No.202241030671 A	2022

11. Details of Winter/Summer Schools Attended

S.No.	Name of the programme	Organized by	Date & Duration
1	Certificate of Lead Auditor Course	Natural Science Foundation, Coimbatore.	26.09.2022 to 30.09.2022
2	A One-week National Level Online Faculty Development Programme on “Challenges and Measures in Evolving Power Systems”	Mahatma Gandhi Institute of Technology, Gandipet, Hyderabad	06-06-2022 to 11-06-2022
3	A One-week National Level Online Faculty Development Programme on “Greening the Grid”	Mahatma Gandhi Institute of Technology, Gandipet, Hyderabad	17-05-2022 to 21-05-2022
4	Transmission and Distribution	Muthayammal College of Engineering, Rasipuram	04.12.2018 & 10.12.2018
5	Two Weeks ISTE STTP on Electric Power System	K.S.Rangasamy College of Technology, Thiruchengode-637215	10.07.2017 to 15.07.2017
6	Faculty Development Training Programme on” IC6501-Control Systems”	Muthayammal College of Engineering, Rasipuram	20.06.2016 to 26.06.2016
7	Anna university sponsored Faculty Development Programme on Solid state Drives	Muthayammal College of Engineering,Rasipuram	14.12.2015 To 20.12.2015 & Seven Days
6	Anna university sponsored Faculty Development Programme on Special Electrical Machines	Muthayammal College of Engineering, Rasipuram	22.06.2015 to 28.06.2015 & Six days
7	Anna university sponsored Faculty Development Programme on Electrical Power Utilization and Energy Auditing	K.S.R.College of Engineering	03.12.2010 to 10.12.2010

12. Details of Workshops/ Seminars Attended

S.No	Name of the programme	Organized by	Date & Duration
1	Smart Grid and Distributed Energy Systems	Prathyusha Engineering College	12.09.2022
2	Innovative Control Techniques for Hybrid Electric Vehicles"	Department of Electrical and Electronics Engineering and Institution's Innovation Council, Vinayaka Mission's Kirupananda Variyar Engineering College, Salem.	26.06.2021
3	"Electric Hybrid Vehicles"	Sree Vidyaniketan Engineering College, A Rangampet, Tirupati, Andhra Pradesh.	08.02.2021 to 13.02.2021
4	"Electric Hybrid Vehicles"	Sree Vidyaniketan Engineering College, A Rangampet, Tirupati, Andhra Pradesh.	01.03.2021 to 06.03.2021
5	PLC and SCADA for Industrial Automation	Nandha Engineering College	27.07.2020
6	IEEE Xplore Digital Library Training	K.S.R.College of Engineering	04.07.2018
7	Impact of Green Computing for Minimizing e-Waste on Human Health	K.S.R.College of Engineering	03.07.2018 & 04.07.2018
8	Design of Power Electronics Converters Using MATLAB	K.S.R.College of Engineering	23.03.2018
9	Journal Paper Writing and Preparation of Winner Research Proposal	K.S.R.College of Engineering	19.08.2015 & 20.08.2015
10	FPGA Based Control Of Permanent Magnet and Reluctance Motor for Energy Efficient Industrial Drives	PSG College of Technology, Coimbatore.	06.08.2015 to 08.08.2015
11	Hands -on Training on Simulation and Analysis of Power Systems and Power Electronics Tool	Kongu Engineering College, Perundurai-638052	31.07.2015 & 01.08.2015
12	Research Challenges In Special Electrical Machines	Karunya University, Karunya Nagar ,Coimbatore-641114	11.09.2014 & 12.09.2014
13	Writing Effective Research Papers and Thesis	K.S.R.College of Engineering	19.07.2014
14	Soft Computing Techniques Using MATLAB	Kongu Engineering College, Perundurai-638052.	13.09.2013 & 14.09.2013
15	Emerging Trends In Embedded Systems	Coimbatore Institute of Technology	10.08.2012
16	Mathematics for Electrical &Mathematical science	PSG College of Technology, Coimbatore.	02.03.2012 & 03.03.2012

17	Smart Grid for Distributed Energy Resources	K.S.R.College of Technology, Thiruchengode-637215,	18.11.2011 & 19.11.2011
18	Research Methodology for Engineering and Management	Kongu Engineering College, Perundurai-638052.	28.07.2011
19	Efficient Energy Management in Clean and Renewable Energy Systems	K.S.R.College of Technology, Thiruchengode-637215.	24.03.2011 & 25.03.2011

13. Details of Winter / Summer Schools / Workshops / Seminars organized:

S.No	Name of the programme	Sponsored by	Acted as	Duration	Coordinator
1	Fundamentals of Electrical and Electronics Components	KSRCE	Coordinator	24.11.21	Dr.M.Vijayakumar
2	Electrical Safety for Non-Teaching staff	KSRCE	Coordinator	31.10.22	Dr.M.Vijayakumar

14. Details of the Subjects Handled (in KSRCE):

Sl.No	Academic Year	Semesters	Name of the Subject	Class
1	2022-2023	ODD	20EE314 –Measurements and Instrumentation	II EEE
2	2021-2022	EVEN	20EE041 – Basics of Electrical& Electronics Engineering	I MECH
			18EE863 - Electric Power Utilization and Conservation	IV EEE
		ODD	20EE314 & Measurements & Instrumentation	II EEE
3	2020-2021	EVEN	PE20267 & Electric Vehicle	I M.E (PED)
			20EE041 – Basics of Electrical& Electronics Engineering	I MECH
		ODD	18EC332 & Logical Design of Digital Computer	II CSE A&B
4	2019– 2020	ODD	16EE712/Embedded Systems	IV EEE A&B
		EVEN	18HS051/Professional Ethics	II EEE
			18EC436/Microprocessors And Microcontrollers	II CSE B
5	2018-2019	EVEN	16EE664 / Special Electrical Machines	III A & EEE
12EE4807/ Operating Systems			IV A & EEE	
6		ODD	12EE3704/ Embedded Systems	IV A & EEE
PE18165/ Embedded System Design	I M.E (PED)			

7	2017-2018	EVEN	12EE4604-Special Electrical Machines	III EEE A
			ET16212-Embedded Networking	I ME EST
		ODD	12HS2541-Principles of Management	III EEE -A
			ET16114-Design of Embedded Systems	I ME(EST)
8	2016-2017	EVEN	12EE3402-Electrical Machines-I	IIEEE-A
		ODD	12EE3302- Power Plant Engineering	IIEEE-A
9	2015-2016	EVEN	12EE3206- Electric Circuit Analysis	IEEE -A
		ODD	12EE3324-Electrical Drives and Control	II(MECH-A)
10	2014-2015	EVEN	EE2451-Electric Energy Generation, Utilization and Conservation	IV (EEE-A)
			ET123202-Embedded Networking	I-ME(EST)
11	2014-2015	ODD	ET123105- Design of Embedded Systems	I-ME(EST)
			CS2411- Operating Systems	IV (EEE-A)
12	2013-2014	ODD	080280071 – Embedded Systems	IV (EEE-A)
		EVEN	080280079-Electric Power Utilization and Energy Auditing	IV (EEE-A)
			ET123202-Embedded Networking	I/II-ME(EST)
13	2012-2013	ODD	080280071-Embedded Systems	IV (EEE-B)
		EVEN	080280079Electric Power Utilization and Energy Auditing	IV (EEE-A)
			Electrical and Electronics Engineering	I CIVIL-C
14	2011-2012	ODD	080280071-Embedded Systems	IV (EEE-A)
		EVEN	080280079-Electric Power Utilization and Energy Auditing	IV (EEE-B)
15	2010-2011	EVEN	080280079-Electric Power Utilization and Energy Auditing	IV EEE

15. Additional Responsibilities:-

15.1 College Level

S.No.	Details of Work	Work allotted by	Duration
1.	Electrical Maintenance In charge	Principal	May 2010 To Till Date
2.	Seminal Hall In charge	Principal	September 2014 To Till Date

15.2 Dept. Level

S.No.	Details of Work	Work allotted by	Duration
1	Admission In charge	Head of the Department	June 2021 to till date
2	Purchase In charge	Head of the Department	January 2012 to till date
3	Class Advisor (II)	Head of the Department	June 2021 to till date
4	Stationary In charge	Head of the Department	May 2021 to till date

16. Self-Appraisal

- Major Strengths:
1. Keen to learn new things
 2. Easily adaptable to situations
 3. Cruel situations taking as an experience
- Major Weaknesses:
1. Soft in Nature
 2. Emotional
 3. Careless

Signature

(M.VIJAYAKUMAR)

Annexure

LIST OF PUBLICATIONS

National Conference: 04

1. **M.Vijayakumar**, “Peer to Peer Epidemic Algorithms and Maximizing Throughput Algorithms for Reliable Multicasting in ADHOC Networks”, Proceedings of the National conference on NCACC-2009, Paavai College of Engineering, 2nd April 2009.
2. **M.Vijayakumar**, “Peer To Peer Epidemic Algorithms and Maximizing Throughput Algorithms for Reliable Multicasting in ADHOC Networks”, Proceedings of the National conference on RETEEICOM-2009, Mahendra Engineering College, 24th April 2009.
3. **Vijayakumar, M.** (2013), “Stability Analysis of FPGA Based control of Brushless DC Motor using Fuzzy Logic Controller”, National Conference on Emerging Trends in electrical Science by Institute of Road and Transport Technology , 27 & 28th February 2013.
4. **Vijayakumar, M.** (2015), “Torque Ripple Reduction for BLDC Motor Using Current Optimization Technique Based on T-source Inverter and Hybrid Controller”, National Conference on Recent Trends in Electrical Science by Institute of Road and Transport Technology , 26th February 2015.

International Conference: 07

1. **Vijayakumar, M.** , “Automatic Human Follower Trolley Using Huskylens”, International Conference on Science, Technology, Engineering and mathematics”, Johnson Institute of Technology , Coimbatore, 28th May 2022.
1. **Vijayakumar, M.** , “IOT Gaming Technology Using Power Generation”, International Conference on Advanced Science and Engineering Research”, Alameen Engineering College, 28th March 2020.
2. **Vijayakumar, M.** , “Electric line man safety using microcontroller based finger print sensor”, International Conference on Information Science and Renewable Energy Sources”, Selvam College of Technology, 7th & 8th March 2019.
3. **Vijayakumar, M.** , “Generator Protection Using Multi Function Digital Relay”, International Conference on Advanced Science and Engineering Research”, Al-Ameen Engineering College, 5th April 2018.
5. **Yahooth.M & Vijayakumar.M.**, “T-source Inverter Based Torque Ripple Reduction for BLDC Motor Using Current Optimization Technique with Hybrid Controller”, International Conference on innovation in Information, Embedded and Communication systems, Karpagam college of Engineering, March 19 & 20th March 2015.
6. **M.Rubina & Vijayakumar, M.** , “Green house gas monitoring and control using wireless sensor network”, International Conference on Electrical, Electronics &

Computer Engineering (ICEECE) AT Vivekanandha College of Engineering for Women , 11&12th March 2015.

7. **Vijayakumar. M**, “Stability Analysis of FPGA Based control of Brushless DC Motor using Fuzzy logic controller”, International Conference on Advanced Computing ,Machines and Embedded Technology ,J.K.K.Nataraja College Of Engineering and Technology , 8 & 9th March 2013.

National Journals: 01

1. **Vijayakumar.M**,“Monitoring and Control of Green House Gases Using Wireless Sensor Network” National Journal of i-manager’s journal on embedded systems.”Volume 3, No.3.August –October 2014.

International Journals: 03

1. **Vijayakumar.M**, “stability analysis of FPGABased Control of Brushless DC Motor using Fuzzy Logic Controller”International Journal of Emerging Trends in Electrical and Electronics (IJETEE)”Volume 4, Issue 1, June 2013

2. **Yahooth.M & Vijayakumar.M**,“T-source Inverter Based Torque Ripple Reduction for BLDC Motor Using Current Optimization Technique with Hybrid Controller”, International Journal of Applied Engineering, Vol.10, 20 pp.16814-16819, 2015

3. **Vijayakumar.M & Periasamy.PS**, 2019, ‘Torque Ripple Minimization of Brushless DC Motor Using Intelligent Control Technique’, Journal of Electrical Engineering, ISSN: 1582-4594, (Annexure), **Impact Factor-1.04**.