

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

DEPARTMENT OF ELECTRICAL ANDELECTRONICS ENGINEERING FACULTY PROFILE

- 01. Name** :Dr.E.Vani
02. Designation :Associate.Professor
03. Date of Birth :13.06.1978
04. Date of Joining :01.11.2007
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	Electrical Engineering	-	Anna University	2020	-
1.	M.E	Power Electronics and Drives	K.S.Rangasamy College of Technology	Anna University	2008	72%
2.	B.E	Electrical and Electronics Engineering	Sapthagiri College of Engineering	Madras University	1999	61%

- 07. Area of Interest** :Power Electronics

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

S.No.	Name of the Organization	Designation	Period	
			From	To
1.	K.S.Rangasamy Institute of Technology	Lecturer	05.07.2000	31.10.2007
2.	K.S.R. College of Engineering	Lecturer	01.11.2007	30.06.2009
3.	K.S.R. College of Engineering	Assistant Professor	01.07.2009	31.01.2014
4.	K.S.R. College of Engineering	Associate Professor	01.02.2014	Till Date

09. Publication Details:

	National Level		International Level	
	Journal(s)	Conference(s)	Journal(s)	Conference(s)
KSRCE	3	9	7	7
Others	-	-	-	-

*-Annexure

10. Details of Monographs, Books & Patterns

S.No.	Title	Name of the author(s)	Publisher Name	Year of publicat.
1	Solar Based Wireless Power Transmission	E.Vani M.Vijayakumar	Patent Journal	2022

11. Details of Proposal

S.No.	Title of the Proposal	Funding Agency Details	Date & Duration	Status
1	-	-	-	-

12. Details of Winter/Summer Schools Attended

S.No.	Name of the programme	Organized by	Date &Duration
-	-	-	-

13. Details of Workshops/ Seminars Attended

S.No	Name of the programme	Organized by	Date & Duration
2007-2008			
1.	Circuit Simulation using Multisim Software	K.S.Rangasamy College of Technology	08.12.2007 One day
2009-2010			
2.	Intensive Workshop on MATLAB for Research Applications	IRTT	26.06.2009 to 28.06.2009 Two days
3.	Research methods	PSG Technology	01.03.2010 to 02.03.2010 Two days
2010-2011			
4.	National Workshop on soft computing using MATLAB	Kongu Engineering College	28.01.2011 to 29.01.2011 Two days
5.	High Impact Teaching Skills-Mission 10X	K.S.Rangasamy College of Technology	01.02.2011 to 02.02.2011 Two days
6.	Application of intelligent Techniques in the analysis and design of Electrical system	K.S.R College of Engineering	29.04.2011 to 30.04.2011 Two days
2011-2012			
7.	Recent trends in power quality and power system Maintenance	Selvam college of Engineering	19.08.2011 to 20.08.2011 Two days
8.	Research methodology and techniques in soft computing	K.S.R College of Engineering	28.09.2011 One day
2012-2013			
9.	Application of Biologically Inspired Algorithms for	National Institute of Technology	28.07.2012 One day

	power system and power Engineering		
2014-2015			
10.	Writing Effective research paper(s) and Thesis	K.S.R College of Engineering	19.07.2014 One day
11.	AICTE sponsored one week short term course on Advanced Control Theory for Electrical Engineering Applications	CIT, Coimbatore	13.10.2014 to 19.10.2014
12.	Solid State drives	EQIP Fundation	10.12.2014 to 13.12.2014
2015-2016			
13.	Energy Storage Techniques for Renewable Energy Systems	Sona College of Technology	16.09.2015
14.	IC6501-Control System	Muthayammal College of Engineering	20.06.2016 to 26.06.2016.
2016-2017			
15.	Paten Filing in India and Other Countries	K.S.R. College of Engineering	08.08.2016 One day
16.	Integration of Renewable Energy, Energy storage and system operation	Government College of Engineering	11.12.2016 to 14.12.2016
2017-2018			
17.	Accreditation Board of Engineering and Technology	K.S.R College of Engineering	13.10.2017
18.	Advanced Renewable Energy Systems for sustainable Development	Muthayammal Engineering College	12.02.2018 to 18.12.2018
19.	Women Entrepreneurship	K.S.R College of Engineering	08.03.2018
2018-2019			
20.	Impact of Green Computing for Minimizing E-Waste on Human Health	K.S.R College of Engineering	03.07.2018 and 04.07.2018
21.	Outcome Based Education	K.S.R College of Engineering	01.11.2018
22.	Transmission and Distribution	Muthayammal Engineering College	04.12.2018 to 10.12.2018
23.	How to Access E sources	K.S.R College of Engineering	23.01.2019
24.	Problem Based Learning	National Institute of Technical Teachers Training and Research	11.02.20219 to 15.02.2019
2019-2020			
25.	IC-8451 Control System	Vivekanandha College of Engineering for Women	02.12.2019 to 07.12.2019

26.	Instructional and Assessment Characteristics of OBE Framework and Hands on Practices For Designing and Mapping Outcomes	KSRIET	19.11.2019 to 21.11.2019 Three days
27.	Women Entrepreneurship and Empowerment	K.S.R College of Engineering	26.08.2019
2020-2021			
28.	Digital Teaching Techniques	ICT Academy, KSRCE, Tiruchengode	27.7.2020 to 01.08.2020 Six Days
29.	Virtual Labs	NITK Surathkal	10.08.2020 to 14.08.2020 Five days
30.	Recent Trends on Green Energy	GMR Institute of Technology, Rajam	12.10.2020 to 16.10.2020 Five days
31.	Efficient Fault Tolerant Schemes for Electric vehicles	Tagore Engineering College	06.07.2020 One day
32.	PLC and SCADA for Industrial Automation	Nandha Engineering College	27.07.2020 One day
33.	Innovative Computational Techniques in Optimization Algorithms	K. S. Rangasamy College of Technology	10.10.2020 One day
34.	MATLAB applications for Numerical methods and control systems	K. S. Rangasamy College of Technology	22.12.2020 One day
35.	Electric Hybrid vehicles	SreeVidyaniketan Engineering College	01.03.2021 to 06.03.2021 Six days
2021-2022			
36.	Big Data Analytics for Smart Grid	Sri Krishna College of Engineering and Technology	14.02.2021 to 20.12.2021
37.	Greenig the Grid	Mahatma Gandhi Institute of Technology	17.05.2022 to 21.05.2022
38.	ICT Tools for Effective Teaching Learning	Kamla Nehru Mahavidyalaya, Nagpur	23.05.2022 To 28.05.2022
2022-2023			
39.	Trends & challenges in the development of electric vehicles & hybrid electric vehicles	lendiinsititute of engineering & Technology, Vizianagara m	26.09.22 to 30.09.2022
40.	IP awarness Program	KSRCE	11.11.2022

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

S.No	Name of the programme	Sponsored by	Acted as	Duration	Coordinator
1	Webinar on Career Opportunities in Civil Services	KSRCE	Coordinator	1 Session	Dr.E.Vani
2	Webinar on Smart Grid	-	Coordinator	1 Session	Dr.E.Vani

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

Sl.No	Academic Year	Semesters	Name of the Subject
1.	2022 - 2023	ODD	20EE561 - Power Plant Engineering
1.	2021-2022	ODD	18EE562 Power Plant Engineering
			20GE028 – Manufacturing Practices Laboratory
		EVEN	20EE041 Basics of Electrical and Electronics Engineering
			20GE028 – Manufacturing Practices Laboratory
2.	2020-2021	ODD	18EE562 - Power Plant Engineering
			20EE041 - Basics of Electrical and Electronics Engineering
		EVEN	16EE864 - High Voltage Engineering
			20GE028 – Manufacturing Practices Laboratory
3.	2019-2020	ODD	18EE Measurement and Instrumentation
			16EE512 - Control Systems
		EVEN	16EE664 -Special Electrical Machines
			16EE864 - High Voltage Engineering
4.	2018-2019	ODD	-Communication Engineering
			16EE313 - Measurement and Instrumentation
		EVEN	16EE413 - Analog Integrated Circuits
			16EE864 - High Voltage Engineering

16. Additional Responsibilities:-**16.1 College Level**

S.No.	Details of Work	Work allotted by	Duration
1.	IQAC Audit Member	Principal	2019-Till date

16.2 Dept Level

S.No.	Details of Work	Work allotted by	Duration
1	Class Advisor	HoD	2007-2011
2	Class Advisor	HoD	2014-2018
3	Class Advisor	HoD	2017-2021
4	Mentor	HoD	2020-2024
4	ISTE Department coordinator	HoD	2016 – Till date
5	Control System Lab Incharge	HoD	2010 – Till date
6	Machines Lab Incharge	HoD	2019 – Till date
7	Budget Additional incharge	HoD	2018 – Till date
8	NIRF Department Coordinator	HoD	2021 – Till date
9	Department AICTE /Anna university Assistant in-charge	HOD	2018 – Till date

17. Self-Appraisal

1. Major Strengths:

- 1.Sincere
2. Flexible
- 3.Self Confidence

2. Major Weaknesses:

- 1.Soft in nature
2. Emotional

Signature

(E.VANI)

Annexure

LIST OF PUBLICATIONS

National Conference:09

1. E.Vani ,“Investigation on performance of Parallel LUO converter”, National Conference on Power Electronics and Drives, Organized by AlagappaChettiyar College of Engineering and Technology, Karaikudi, Tamilnadu, 13th March 2008.
2. E.Vani ,“ Design and Implementation of positive output LUO converter”, National Conference on Intelligence System for Robotics and Automation, Organized by Kumaraguru College of Technology, Coimbatore, Tamilnadu, 19th April 2008.
3. E.Vani ,“Application of Z Source Inverter & PMSG in wind energy system”, National Conference on Advances in Information and Communication technology, Organized by C.Abdul Hakeem College of Engineering and Technology, Tamilnadu, 5th March 2011.
4. E.Vani ,“Generation of Maximum Power in wind energy system using Z source inverter”, National Conference on Power Electronics and Drives, Organized by AlagappaChettiyar College of Engineering and Technology, Karaikudi, Tamilnadu, 9th March 2011.
5. E.Vani ,“Analysis of new topology in Vienna Rectifier with squirrel cage induction generator using wind energy system”, National Conference on Cutting Edge Technologies in power conversion and industrial drives, Organized by Bannari Amman Institute of technology, Sathyamangalam, Tamilnadu, 9-10 February 2012.
6. E.Vani ,“Vienna rectifier with squirrel cage induction generator using wind energy system”, National Conference on Recent Advancements & challenges on Electrical Engineering and Applications, Organized by IRTT,ErodeTamilnadu, 29.02.2012&01.03.2012.
7. E.Vani ,“Variable speed wind energy system using Vienna rectifier & SL- Z source inverter”, National Conference on Recent Trends in Electrical Sciences, Organized by IRTT, Erode,26th February 2015.
8. E.Vani ,“Energy auditing and power theft identification for house hold user”, National Conference on Innovations and Advancements in Electrical Sciences, Organized by KPR Institute of Engineering and Technology, Coimbatore,23rd March 2018.
9. E.Vani ,“Experimental Adaptive Terminal Sliding mode Control on Hybrid Energy Storage Systemsof Fuel cell, PV cell for Effective Induction Load”, Virtual National Conference on Innovations in Electrical Power and Green Energies, Organized by M.Kumarasamy College of Engineering, Karur,24th March 2021.

International Conference: 06

1. E.Vani ,“A low cost topology for wind turbine system”, IEEE International Conference Innovation in Information, Embedded and Communication Systems, Organized by Karpagam College of Engineering, Coimbatore, 19-20 March 2015.
2. E.Vani ,“Enhancement of power quality in a wind power generating using a dual boost converter”, International Conference on Global Innovations Computing Technology, Organized by Jay Shriram Group of Institutions, Tirupur, 04-05 March 2016.
3. E.Vani ,“Groundnut Harvester”, International Conference on Recent Innovations in Engineering Technology and Management, Organized by Nandha Engineering College 22nd March 2019.
4. E.Vani ,“Collecting wastes from trashcan using LoRa”, International Conference on Future Technologies in Engineering, Science & Humanities, Organized by Nandha Engineering College 22nd February 2019.
5. E.Vani ,“Gsm Based Manless Power Transmission Control For Remote Thermal Station”, International Conference on Engineering and Technology, Organized by Selvam College of Technology, Namakkal 04-05 March 2020.
6. E.Vani ,“Development of Artificial Sensitivity (Haptic) for Robotic Arm using Mechano Resistive Transducer”, International Conference on Innovative Research in Power and Energy Engineering, Organized by Arasu Engineering College, Kumbakonam, 26th March 2021.
7. E.Vani,” Smart ATM security using vibration sensor and DC motor”, International Conference on Science, Technology, Engineering and Mathematics, organized by Jansons Institute of Technology, Coimbatore, 28th May 2022.

National Journal: 03

1. Vani, E Rengarajan, N (2016), “Optimal operation of low cost topology for improving the power quality in the wind power conversion system”, Indonesian Journal of Electrical Engineering and Computer Science, Vol.1&pp. 523-533.
2. Vani, E Rengarajan, N(2017), “Power Quality Improvement in a Wind Power Generating System using a Dual Boost Converter”, Asian Research Consortium-Asian Journal of Research in Social Sciences and Humanities, Vol.7&pp. 400-415.
3. Vani, E Rengarajan, N (2017), “Reduction of harmonics in a wind power conversion system by the optimal function of a Vienna rectifier and switched inductance Z source inverter”, Research Journal of Biotechnology, Vol.12 Special issue &pp. 188-198.

International Journal: 07

1. E.Vani, R Pradeep(2011), “Applications of Z-Source Inverter & PMSG in Wind Energy Systems”, International Journal of Advanced Research in Computer Science, Vol.2.
2. R.Gitanjali Vyraneela, E.Vani and Dr.N.Rengarajan(2015), “A Low Cost Converter Topology for Wind Turbine System”, International Journal of Applied Engineering Research, Vol.10 &pp. 16829-16834.

3. E.Vani, N. Rengarajan(2016), "Optimal Operation of Low Cost Topology for Improving the Power Quality in the Wind Power Conversion System", European Journal of Applied Sciences, Vol.8 &pp. 18-27.
4. E.Vani, N. Rengarajan(2017), "Improving the power quality of wind power using low cost topology", International Journal of Modelling and Simulation, Vol.37&pp. 108-115.
5. E.Vani, (2019), "Collecting wastes from trashcan using LoRa", International Journal of Emerging Technology in Computer Science & Electronics, Vol.26&pp. 69-71.
6. E.Vani, S.Thiruvengadam, L.Shanmugapriya, M.R.Stalin, S.Vignesh, (2019), "Groundnut harvester", International Journal of Intellectual Advancements and Research in Engineering Computations, Vol.7 &pp. 2006-2012.
7. Vani.E, Priyanka.K, Suresh.k, Thineshkumar.K and Vignesh.D(2020), "Gsm Based Manless Power Transmission Control For Remote Thermal Station", International Journal of New Innovations in Engineering and Technology, Special issue.