Sri Sai Ram Engineering College
Department of Electrical and Electronics Engineering

1. Name : Dr.Rajakumar.P	
2. Designation:	Associate Professor
3. Qualification :	B.E, M.E., Ph.D
4. Area of Specialization :	Power Electronics & Drives, Power Systems, Power Quality
5. Experience :	Teaching: UG: 23 yrs PG: 6 YRS Industry: 6 yrs & 2 Months
6. No. of workshop:	20
FDP attended:	25
7. Publication :	Journal National: 3 International: 13 Conference National: 12 International: 20
8. Research Guidance :	40 UG projects and 20 PG Projects guided
9. General :	Two Months underwent training programme, "Design of Photovoltaic based custom power devices" under the scheme "Mentoring of Engineering Teachers by INAE Fellow" at IIT Delhi under the supervision of Dr.Sukumar Mishra, Professor / Dept of EEE.
10. Staff Achievements:	SEC: Detail mentioned below Vel Multi-Tech: UG: 3 times cash award received for best Results.

EXPERIENCE:

a) Teaching & Learning

		Joining	Relieving	Experience		
Name of the College	Designation	Date Date		Yea rs	Month s	Day s
Sri Sai Ram Engineering College	Associate Prof	1.08.2014	Till date	10	02	0
Sri Sai Ram Engineering College GKM College of	Assistant Prof	21.01.2011	31.07.2014	3	6	10
Engineering & Technology	Sr.Lecturer	29.06.2009	19.01.2011	1	6	20
KCG College of Technology	Sr.Lecturer	23.08.2007	23.06.2009	1	10	0
Vel Multi-Tech (Formerly Vel S.R.S	T .					
College of Multimedia)	Lecturer	26.05.2003	4.8.2007	4	2	8
			Total	21	3	8

b) Industrial

Name of the		Nature of	Joining Relievin		xperience		
Organisation	Designation	Work	Date	g Date	Years Month s		Day s
Media Electrical & Electronics Services Pvt Ltd Ignition Products (India) Pvt Ltd	Sr.Electrical Engineer Design Engineer	Design of Control Panel, Distributio n boards Design of small capacity turbo generator	01.12.200 1 01.06.199 6	26.04.200 3 18.04.200 1	1	11	22
		0		Total	6	2	10

BOOKS PUBLISHED:

Written three monograms for the benefit of students at Vel Multi Tech Engineering College,

1. Power Electronics: 2. Power System Analysis: 3. Network Analysis and Synthesis.

RESEARCH PUBLICATIONS:

a)Patent:

SI.No	Details of Publications	Status
1	INTELLIGENT ROBOT FOR GRASS CUTTING USING	Published on
	ANDROID APPLICATION	30.10.2020
2	AN INTELLIGENT SMART STREET LIGHT SYSTEM WITH	Published on 6.11.2020
	SAFETY TECHNOLOGY AND ENVIRONMENT MONITORING	
3.	DESIGN AND IMPLEMENTATION OF SMART AIR QUALITY	Published on 7.05.2021
	DETECTION SYSTEM BASED ON	
	IOT	
4	BIOMETRIC FINGERPRINT BASED VOTING MACHINE	Published on
		25.11.2022

b)International Journal

SI.No	Details of Publications
	Chithrakkannan. R, Karthikeyan R., Hariharan Illango, Rajakumar P., Sumathi.S,
1	"Improving Medical Imaging Diagnostics by Utilizing Compression Techniques and
	Implementing FPGA Acceleration with Vivado HLS",International Journal of Intelligent
	Systems and Applications in Engineering, Vol-12, Issue-21s, PP:1457–1463, April 2024.
2	Rajakumar.P, Raajasekar, Pavithran, Siva, Natarajan.M, "Smart traffic clearance systems
	for emergency vehicles by using IOT", AIP Conference Proceedings, Oct '2024.
	Rajakumar.P. and R.Saravanakumar, 'Interline Unified Power Quality
3	Conditioner For Enhancing Power Quality Using Fofpid-Based Interleaved Cuk
3	Converter', International Journal on Recent and Innovation Trends in Computing
	and Communication 11(9s), 698–705,Aug'2023.
	Sthitprajna Mishra, Bibhu Prasad Ganthia, Abel Sridharan, Rajakumar. P ,D.
4	Padmapriya, Dr. S. Kaliappan, "Optimization of Load Forecasting in Smart Grid
-	using Artificial Neural Network based NFTOOL and NNTOOL", Journal of
	Physics: Conference Series, doi:10.1088/1742-6596/2161/1/012068, Jan'2022.
	Rajakumar.P, R.Saravanakumar, "An Investigation of Power Quality Enrichment using
5	UPQC with AI and Swarm Intelligence Methods", International Journal of Pure and
3	Applied Mathematics", ISSN: 1311-8080 (printed version); ISSN: 1314-3395 (on-line
	version), Volume 117 No. 16 2017, pp-705-712, Dec'2017.
	Rajakumar. P, R.Saravanakumar, R.Thirumalaivasan, "Efficiency Enhancement of PV
6	based Dynamic Voltage Restorer using Zeta converter", International Journal of Applied
	Engineering Research, ISSN 0973-4562, vol-10, No-18, PP-38724-3872, Oct'2015.
	Rajakumar.P, R.Saravanakumar, "Design of Fuzzy Logic Controller for DSTATCOM",
7	International Journal on Advanced Materials Research, ISBN 978-3-03835-058-3, vol-
	905, PP- 401-405, Apr'2014.

	Rajakumar. P, J.Shankar, R.Saravanakumar, S.B.Sabberwal, "Review on Power Quality
8	Issues", IRACST - Engineering Science and Technology: An International Journal
	(ESTIJ), ISSN: 2250-3498, Vol.2, No.1, Feb'2012.

c) International Conference

SI.No	Details of Publications
	Rajakumar P, Suresh K, Yogeswari T, Sathasree M, Divya G, "Street Light Intensity
1	Control", 2024 International Conference on Power, Energy, Control and Transmission
	Systems (ICPECTS).
	K. Suresh, Rajakumar P, S Murugesan, P. Sivaprakasam, J.Johnsi Rani, "Smart Brain
2	Controlled Prosthetic Arm Using hybrid Binary PSO", 2024 International Conference on
	Power, Energy, Control and Transmission Systems (ICPECTS).
	Rajakumar. P, K. Suresh, Gokul, Sivaram. B. G, Shivaganesh. S, Uthama Raja. M,"An
3	Artificially Intelligent Battery Management System", 2024 International Conference on
	Power, Energy, Control and Transmission Systems (ICPECTS).
	T. Mangayarkarasi, Rajakumar. P , Sivabalan. M, Navin Gokul.R "Arduino Based Smart
4	Metering System with Smart 2560" 2024 International Conference on Power, Energy,
	Control and Transmission Systems (ICPECTS).
	Rajakumar.P, Janani E,Pavithra P, SRIMATHI K,"Prevention And Intimation Of Accident
5	Zone Location", 2023 Intelligent Computing and Control for Engineering and Business
	Systems (ICCEBS), Dec '2023.
	Suresh.K, Rajakumar, P, Soumya. K, Dakshina.R, "AireWatch: Futuristic Gas
6	Monitoring", 2023 Intelligent Computing and Control for Engineering and Business
	Systems (ICCEBS), March 2024.
	Rajakumar.P, mohan s, gokul j, janani e, srimathi k, pavithra p, "INTIMATION OF
7	ACCIDENT ZONE LOCATION", 2022 International Conference on Power, Energy,
	Control and Transmission Systems (ICPECTS), Feb'2023.
	Rajakumar.P, Sai Siddhaarth B, Sriram B, Rajasekhar S "AUTOMATION OF ROOM
	LIGHTING SYSTEM USING ARDUINO AND PIR SENSOR", 2022 International
	Conference on Power, Energy, Control and Transmission Systems (ICPECTS), Feb'2023.
	Rajakumar.P, Barath Kanna.C, Archana R, Akshaya.A, Abhinaya.K, Boobalan.M,
9	"AUTOMATION OF ROOM LIGHTING SYSTEM USING ARDUINO AND PIR
	SENSOR", 2022 International Conference on Power, Energy, Control and Transmission
	Systems (ICPECTS), Feb'2023
	• \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	Rajakumar.P, K.Suresh, Boobalan.M, Gokul.M, Darunkumar.G, , Archana R, "IoT
10	• \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \

	Mohan S , Rajkumar.K , Rajakumar.P , Hari Pradosh S M, Gandhi S,
11	Balasakthishwaran M, " AUTOMATIC SOLAR TRACKING SYSTEM", 2022
	International Conference on Power, Energy, Control and Transmission Systems
	(ICPECTS), Feb'2023
	Rajakumar. P, Puviarasi,S.Singh, "Power Management and Advanced Metering
	Infrastructure Using Wireless Network in Remote Areas", First IEEE International Conference
12	on Power, Energy, Control and Transmission(ICPECT'18), DOI:
	10.1109/ICPECTS.2018.8521617, at Sri Sairam Engineering College, Chennai,
	Feb'2018.
	Rajakumar. P, Dr.R.Saravanakumar, R.Thirumalaivasan, "Power Quality Improvement
13	using photovoltaic based DVR" First IEEE International Conference on Advances in
	Electrical Engineering (ICAEE'14), DOI:10.1109/ICAEE.2014.6838512 , at VIT
	University, Vellore, on 9.01.2014.
	Rajakumar. P, G.Nithya, "Direct Power Control Strategies for 3-matrix Converter Based
14	Upfc", International Conference on Recent Trends in Electrical Engineering at
	Adhiparasakthi Engineering College, Feb '2012.
	Rajakumar. P, B.Mohanapriya, "Hybrid Power System Based Z-Source Inverter",
15	International Conference on Recent Trends in Electrical Engineering at Adhiparasakthi
	Engineering College, Feb '2012.
	Rajakumar. P, A. Manoj Mathew, "Design And Implementation of DSTATCOM for
16	Fast Load Compensation Of Critical Loads", International Conference on Computational
	Intelligence & Advanced Manufacturing Research ICCIAMR 2013, Vol-4, ISBN - 978-
	81- 924031-7-5, Mar'2013.
	Rajakumar. P, G.Ramprakash, "Matrix Converter Based Unified Power Quality
17	Conditioner", International Conference on Computational Intelligence & Advanced
	Manufacturing Research ICCIAMR 2013, Vol-4, ISBN - 978-81-924031-7-5, Mar'2013.

d) National Journal

Sl.No	Details of Publications	
	Dr. K. Suresh, Sanjeevi Gandhi, Rajakumar.P , Venkatesan.G, Jeeva.C, "Vehicle Parking System Using Genetic Algorithm and Image Processing", Journal of Advancement in Electronics Signal Processing, Volume 1, Issue 1, Jan'2024.	

e) National Conference

SI.No	Details of Publications		
	Rajakumar. P, "Presented a paper titled "Power Quality Improvement Using		
1.	STATCOM based Cascaded Multilevel Inverter", National level (ETIPS'08) conference		
	held in Vel Multi-Tech SRS Engineering College, Avadi on 8.08.2008.		

1.Professional Membership

SI.No	Details	Status
1	ISTE	Life member
2	IEEE Intelligent Transport System Society (ITSS)	Active
3.	INAENG society of Electrical Engineering	Active
4.	IEEE Power and Energy Society (PES)	Active
5.	IEEE Power Electronics Society (PELS)	Active
6.	IEEE Industrial Electronics Society (IES)	Active
7.	IEEE Industrial Automation Systems (IAS)	Active

2.Awards Received

SI.No	Details	
1	Best Mentor (SKILL RACK POINTS AND PLACED IN HIGHER PACKAGE)	
2	InSc Awards 2021 for guidance of UG project	
3	IEEE Senior member	

3. Roles and Responsibility in Sri Sairam Engineering College

SI.No	Details of Responsibility	
1	EEE Department Placement Facilitator	
2	NAAC 5 th criterion Department coordinator, NBA 9 th Criterion Department coordinator, NIRF	
3	Department Salesforce coordinator(2018 onwards)	
4	Department Alumni Coordinator (2017 onwards)	
5	Acted as EEE board chairman in SEC (2021-2022, 2024-2025)	
6	Live-in Lab Department coordinator (2020-2021)	
7	Innovation Design Project Coordinator (2022-2023)	
8	Project Coordinator(2023-2024)	
9		

4. Guest Lecture given

SI.No	Topics	Place	
	Anna University sponsored FDTP	Department of Electrical and Electronics	
1.	on Electrical Machines-1	Engineering, Valliammai Engineering College,	
		Chennai on 9.05.2019	
Anna University sponsored FDTP Dep		Department of Electronics and Instrumentation, Sri	
2.	on Power Electronics DC-DC	Sairam Engineering College, Chennai on	
	Converter and its applications.	4.06.2015.	

5. FDP/STTP/QIP attended

SI.No	Name of the Programme	Topics	Place and date
1.	CDAC, NAMPET sponsored short term course	Power Electronics applications to Smart Grid and integration of Renewable Energy source (PESGRE 2023)	VIT University, Vellore from 27.11.2023 to 1.12.2023
2.	Online FDP	Electric Vehicle Drive Systems	from 27.02.2023 to 4.03.2023 Jerusalem College of Engineering
3.	ISTE sponsored FDP	Renewable Energy Systems	Sri Sairam Engineering College(online mode), from 8.02.2021 to 12.02.2021
4.	AICTE sponsored Six days Online STTP	Mitigation of power quality Issues in Distributed Generation Systems using Custom Power Devices-II	R.M.D. Engineering College, from 17.08.2020 to 24.08.2020.
5.	ATAL FDP	Smart Cities	VIT university, Vellore (Online mode), from 1.02.2021 to 5.02.2021
6.	ATAL FDP	Stress-management	Gauhati University Institute of Science and Technology(online mode), from 21.09.2020 to 25.09.2020.
7.	ATAL FDP	Green Technology & Sustainability Engineering	Aligarh Muslim University (Online mode), from 7.09.2020 to 11.09.2020
8.	ATAL FDP	Advances in Power Electronics for Hybrid Electric Vehicle-2020	NIT, Andhra Pradesh, from 11.12.2020 to 15.12.2020
9.	FDP	Circuit Design using AutoCAD Electrical	ICT Academy(online mode), from 25.01.2021 to 30.01.2021
10.	AICTE Margdarshan scheme sponsored FDP	Emerging Power Conversion Techniques and challenges for Renewable energy and Electric Vehicle Applications	National Institute of Technology, Trichy, from 24.06.2019 to 28.06.2019
11.	National Level FDP	Electrical Simulation Software	Sri Sairam Engineering College, from 06.11.17 to 10.11.17

	Anna University	Power Electronics	Sri Sairam Engineering
12.	sponsored FDTP		College, from 1.06.2015 to
			8.06.2015.
	Anna University	Applied Soft Computing /	SSN College of
13.	sponsored FDP	Intelligent Control	Engineering, from
			11.06.2014 to 18.06.2014.
	Anna University	Flexible AC Transmission Systems	SSN College of
14.	sponsored FDP		Engineering, from
			30.05.2013 to 11.06.2013.
	AICTE sponsored	Computational Intelligence on	Pondicherry Engineering
15.	SDP	Power System Analysis, Control	College, from 1.06.2011 to
		and optimization	13.06.2011.
16.	Anna University	Modern method of Teaching	Vel Hi-Tech College of
10.	sponsored FDP		Engineering.
17	Anna University	Power Electronics	Easwari Engineering
	sponsored FDP		College.
18	Anna University	Instructional design and delivery	Vel Multi-Tech College of
	sponsored QIP		Engineering.

6.Training Program attended

❖ Fifteen days Undergone Faculty Industrial Training at **GH Induction India Pvt Ltd**, Thirumudivakkam, Chennai from Jan 2022 to Feb'2022.

7. Certificate Course

Sl.No	Name of the course	Duration
1	Completed "Certificate Program on E-Mobility (Cohort-5)" from IIT Madras	From July 2024 to Feb'2025

8.NPTEL Course completed

SI.No	Topics	Duration
1.	Enhancing Soft Skills and	From Jan-Nov'2020
	Personality	
2.	Intellectual Property	From Jan-Apr'2021
3	Physics of Renewable Energy	From Jun-Nov'2022
	Systems	
4	Accreditation and Outcome based	From Jul-Oct'2023
	education	
5	Python for Data Science	From Jan-Apr'2024

6	Data Science for Engineers	
7	Introduction to Machine Learning	From Jun-Oct'2024
8	Deep Learning	

9. Workshop Attended

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Sl.N	Name of the	Topics	Place
0	Programme		
1	Anna University	Electromagnetic Theory	MIT Campus, Anna
1.	sponsored Workshop	Revisited	University, Chennai
2.	Anna University sponsored Workshop	Digital System Design using VHDL	Vel Hi-Tech College of Engineering.
3.	3 rd National summit on	Sustainable Institute Industry Partnership (SIIP)	IIT Madras Chennai