



# Sri Ramakrishna Institute of Technology

(An Autonomous Institution)

(Accredited by NAAC with "A" Grade)

Pachapalayam, Perur Chettipalayam, Coimbatore – 641 010

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## Faculty Profile

**Ms.D.Poornima ,B.Tech., M.E.,**

Assistant Professor (Sr,Gr),

Electrical and Electronics Engineering



<b>Date of birth</b>	:	10-11-1982	<b>Gender</b>	:	Female
<b>Nationality</b>	:	Indian	<b>Marital status</b>	:	Married
<b>Address for correspondence</b>	:	5/184, Raja Gounder Layout, Behind Kavitha Theater, K.G.Chavadi, Coimbatore-641105	<b>Permanent address</b>	:	5/184, Raja Gounder Layout, Behind Kavitha Theater, K.G.Chavadi, Coimbatore-641105
<b>Mobile no</b>	:	9361039940	<b>e-mail (official)</b>	:	poornima.eee@srit.org
<b>Landline</b>	:	-	<b>e-mail (personal)</b>	:	dpoornima@gmail.com
<b>Date of joining</b>	:	26.05.2016	<b>Post of joining</b>	:	Assistant Professor
<b>No of promotions since D.O.J</b>	:	01	<b>Present post</b>	:	Assistant Professor (Sr.Gr)
<b>Present pay scale</b>	:	15,600-39,100	<b>Gross pay</b>	:	39,141
<b>Employee ID</b>	:	1313	<b>Bank account No. (Salary credited)</b>	:	500101010981106
<b>P.F. No</b>	:	TN/CBE/56764/738	<b>Group Insurance No</b>	:	
<b>PAN Number</b>	:	AYZPP0680J	<b>Aadhar Number</b>	:	728231055107
<b>AICTE ID</b>	:	1-3202118175	<b>AICTE Institution ID</b>	:	1-7841521

**Educational Qualification**

Degree	Specialization	Year of Passing	Name of the College	Name of the University	Class Obtained
UG	B.Tech, Electrical and Electronics Engineering	2004	National Institute of Technology, Calicut, Kerala	National Institute of Technology, Calicut, Kerala	First
PG	M.E, Power Electronics and Drives	2012	Muthayammal Engineering College, Namakkal, Tamil Nadu	Anna University, Chennai	First Class with Distinction
Ph.D					
Others	NIL				

**Registration for Ph.D. with area of interest:**

**Year of Ph.D. Registration:** 2017

**Year of Ph.D. Completed:** Pursuing

**Thesis Title:**

**Supervisor Recognition Number:**

**Ph.D. Scholar Details**

S.No.	Name of the scholar	Registration details	College	Status
	NIL			

**Academic Experience**

Name of the College	Designation	Joining Date	Relieving Date	Experience		
				Years	Months	Days
Sri Ramakrishna Institute of Technology, Coimbatore	Assistant Professor (Sr.Gr)	6-6-2019	-	4	5	18
Sri Ramakrishna Institute of Technology, Coimbatore	Assistant Professor	26-5-2016	6-6-2019	3	-	11
Easa College of Engineering and Technology, Coimbatore	Assistant Professor	18-6-2014	25-5-2016	1	11	7

Nehru Institute of Engineering and Technology, Coimbatore	Assistant Professor	25-6-2012	3-3-2014	1	8	6
Mahendra College Of Engineering , Minnampalli, Salem	Lecturer	22-10-2007	30-9-2010	2	11	8
<b>Total</b>				<b>13</b>	<b>11</b>	<b>0</b>

#### Industrial Experience

Name of the Organisation	Designation	Nature of Work	Joining Date	Relieving Date	Experience		
					Years	Months	Days
NIL							
<b>Total</b>							

#### Courses Handled

Academic Year	Semester	Course Code	Course Name	Type of Course (T / L)	Pass Percentage
2023-24	5	20EE014	Power Electronics	T	Exams not yet conducted
	5	20EE016	Power Electronics Laboratory	L	
	3	20EEG02	Electronic Circuits and Devices	T	
2022-23	1	20EEG01	Basic Electrical and Electronics	T	65
	6	20EE020	Electrical Drives and Control	Blended	90
	8	UEEC017	Final Year Project	L	100
	3	20EEG02	Electronic Circuits and Devices	T	100
	3	20EE005	Electric Circuit and Electron Devices Laboratory	L	
2021-22	6	UEEE103	Control of Electric Drives	T	
	2	20EE001	Electric Circuit Analysis	T	
	5	UEEC010	Power Electronics	T	
	5	UEEG002	Medical Instrumentation	T	
2020-21	8	UEEE109	Power Electronics for Renewable Energy Systems	T	
	6	UEEE103	Control of Electric Drives	T	
	5	UEEC010	Power Electronics	T	
	3	UICE008	Electrical Engineering	Blended	
2019-20	4	UEEC010	Renewable Energy Sources	T	100
	6	UEEE103	Control of Electric Drives	T	100
	5	UEEC010	Power Electronics	T	
	3	UICE008	Electrical Engineering	Blended	

## Projects Guided

Academic Year	Semester	Project Title	UG / PG
2023-24	8	Road Safety: Audio Visual Warning System for Blind Corners	UG
2022-23	8	Water Management System for Srit Campus	UG
2021-22	8	A Teg Based Waste Heat Recovery System Using Intelligent Controller	UG
	6	Smart Intravenous Fluid Dispensing System	
	6	IoT Based Coal Mine Monitoring System	
2020-21	8	Fuzzy Logic Controller for a DC-DC Converter for Low Power Applications	UG
	8	Soft Computing Based Drought Prediction	
2019-20	8	Smart Monitoring of Food Warehouses	UG

## Publications

Publications	SCI / Scopus / Web of Sciences	Others
Journal	8	3
Conferences	1	5

## Journal Publications (IEEE format)

1. Sangeetha S, Yoosuf Vannarath, Poornima D,” Impact of EV Charging Stations on Power Quality”, Journal of Algebraic Statistics, Vol.13,No.3,2765-2774,2022
2. D.Poornima, D.Balaji ,B.Prithviraj, S.Vishwanathan, “Review of Automated Intravenous Fluid Dispensing System”, Journal of Xidian University, Vol.16,Issue.2,237-241,2022
3. D.Poornima, C.Vivekanandhan, S.Rajeswar, A.Durgaprasanth, “Review of Heat Recovery Applications of Thermoelectric Generators”, Journal of Algebraic Statistics, Vol.13,No.3,2775-2782,2022
4. S.Sangeetha,D.Poornima, “Smart Public Addressing System”, International Journal of Interdisciplinary Global Studies, Volume: 14, Issue No: 04, Oct-Dec’ 2020.
5. D.Poornima,S.Sangeetha, “Smart Monitoring of Food Warehouses” , PENSEE Journal, Volume 5, Issue 5 2021, Pg 330-335.
6. D.Poornima, S,Sangeetha, “Cuk Converter for Waste Heat Recovery from Automobile Engine using Thermoelectric Generator with Air as Coolant”, International Journal of Innovative Technology and Exploring Engineering” Vol 9,Issue-4, February 2020, pp 249-252, ISSN: 2278-3075.

7. S.Sangeetha, D.Poornima, "Analysis of STATCOM with PSO Controller in Grid Connected Wind Energy System", Journal of Emerging Technologies and Innovative Research, Volume 6, Issue 2, Pg 1178-1182, 2019
8. Poornima.D, Sangeetha.S, "Design of a Biomass Cook Stove with Co-Generation Using Thermo Electric Generators", International Journal of Applied Engineering Research, Vol.13, No.12, pp.11009-1012,2018 ,ISSN: 0973-4562.
9. P.Pradeep Balaji, S.Sangeetha, K.Maharaja, D.Poornima, B.Gunapriya, "Harmonic Analysis of Three Phase Salient Pole Alternator Under Various Loading Conditions using Power Quality Analyser" Journal of Advanced Research in Dynamical and Control Systems, Special Issue - 2,Pg140 -150, 2017
10. Poornima D, Bharath Kumar M R, Andrew Mathew Domnic F "A single source cascaded multilevel inverter", International Journal for Electrical and Electronic Applications, Vol III, Issue II/III Jan-Mar 2014 pp-21-32.
11. Aneesh S, Poornima D, "Fuzzy MPPT Based Isolated Three Port Converter For Solar Applications", International Journal of Innovative Science and Applied Engineering Research, Vol 16, Issue 54 April2016 pp-39-45.

#### **Conference Publications (IEEE format)**

1. D.Poornima, C.Vivekanandan, "Performance of Water-Cooled Thermoelectric Generator System for Petrol Engines Using Ćuk Converter" IEEE sponsored Fifth International Conference on Computing Methodologies and Communication (ICCMC 2021),April 2021,Pg. 661-667
2. S.Sangeetha, R.Mahalakshmi, D.Poornima "IDVC Based Hysteresis Controller for Three Phase Induction Motor Drive", Proceedings of the 1st International Conference of Science, Engineering and Technology (ICSET 2020), UNIMAP , Rainbow Paradise Beach Resort, Pulau Pinang, Malaysia. 27th Feb. 2020.
3. D.Poornima, S.Rethika, K.Sudhakar, P.Arun, " MPPT Based Boost Converter for Waste Heat Recovery from Automobiles using Thermoelectric Generator" , International Conference on Information Sciences and Renewable Energy Sources, pp 128, March 2019
4. D.Poornima, S,Sandhya, S.Shvetha, "IoT Based Water Distribution Management in Rural Areas", National Level Conference on Innovative Patterning Technologies in Electronics and Communication, March 2019
5. D.Poornima, P.Kalaiselvi, "Bus Bar Design for Spike Reduction in An Industrial Inverter" in National Conference on Innovations in Electrical, Electronics and Control Systems at Kumaraguru College of Technology, Coimbatore on 19th March 2011
6. D.Poornima, "A Novel Cascaded Multilevel Inverter with Single Dc Source" in National Conference on Recent Advancements and Challenges in Electrical Engineering and Applications,at Institute of Road and Transport Technology, Erode on 1st March 2012.

**Books / Book Chapters (IEEE format)**

1. S.Sangeetha, D.Poornima, K.Maharaja, "Stand Alone Solar PV Module Power Plant Requirements and Design for a Commercial Load" in Advances in Renewable Energy Engineering (Volume-I) by AkiNik Publications, 2020
2. S.Sangeetha, D.Poornima, "Robotic Technology for Pandemic Situations", in Predictive and Preventive Measures for Covid-19 Pandemic by Springer, 2021

**Sponsored Research**

Project Title	Funding Agency	Amount Rs.	Duration
Development of a Test Rig for Design of a Boost Converter for Waste Heat Recovery from Automobiles	SRIT- RPS	1,42,500	2 Years

**Consultancy**

S. No.	Organization/ Agency	Nature of Work	Amount in Rs.	Year
	NIL			

**Workshops / Seminars attended**

S.No.	Organizing Institution	Venue	Title	Date(s)
1.	IIT Bombay	Sri Krishna College of Technology	One Day Workshop on Arduino	08.02.2020
2.	Karpagam College of Engineering	Karpagam College of Engineering	One day workshop on Real Time Applications using LabVIEW with Arduino	06.12.2019

**Faculty Development Program attended (from recent)**

S.No.	Organizing Institution	Venue	Title	Date(s)
1.	St.Joseph's College, Thrissur, Kerala	Online	ChatGPT and AI Tools for Educators in line with OBE	19.07.2023 to 26.07.2023
2.	AMET University	Online	Design and Development of Industry led Curriculum in	14.12.2022- 22.12.2022

			Technological Era	
3.	Innovation Ambassador Foundation Level Training	MoE's Innovation Cell		22-23
4.	AICTE Approved Orientation/Refresher Programme	Sri Krishna College of Engineering and Technology	Big Data Analytics for Smart Grid	14.12.2021 to 20.12.2021
5.	AICTE-ATAL	Sri Ramakrishna Engineering College	Embedding AI in Smart Sensors	07.06.2021 to 11.06.2021
6.	AICTE Sponsored STTP	Sri Ramakrishna Engineering College	IoT Based Control Strategies for AC/DC Microgrid in Smart City Implementation	14.12.2020 to 19.12.2020
7.	AICTE	AICTE	Inculcating Universal Human Values in Technical Education	02.11.2020 to 06.11.2020
8.	TEQIP 3	NIT Silchar	Power Electronics Applications to Industrial Systems	07.09.2020 to 11.09.2020
9.	AICTE-ATAL	PSG College of Technology	Electric Vehicles	24.08.2020 to 28.08.2020
10.	AICTE Sponsored STTP	Dr.N.G.P Institute of Technology	Machine Learning & Internet of Things for Industrial Applications	27.07.2020 to 01.08.2020
11.	AICTE Sponsored STTP	New Horizon College of Engineering, Bengaluru	The Role of IoT in Renewable Energy Resources Integration to Electricity Grid	17.02.2020 to 21.02.2020
12.	National Mission on Education Through ICT,MHRD	Spoken Tutorial Project, Sri Krishna College of Technology	Python 3.4.3	01/2020

13.	AICTE Sponsored STTP	Sri Ramakrishna Engineering College	Research Directions on Green IoT for Smart Environment	25.11.2019 to 30.11.2019
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### Events Organized (from recent)

Conference: NIL

### FDP

S.No.	Title of FDP	Resource Persons	Participants	Date(s)
1.	Electric Vehicle Architecture and Integration	1	10	07.12.2022 to 09.12.2022
2.	Research Perspectives: Renewable Energy in Electric Vehicle Charging	14	98	22.11.2021- 26.11.2021
3.	Research Perspectives of Artificial Intelligence in Electrical Engineering	5	200	27.07.2020 to 31.07.2020

### Workshops

S.No.	Title of Workshop	Resource Persons	Participants	Date(s)
1.	Basic Life Support and Electrical Safety	1	80	27.12.2022
2.	Resume Building and Interview process	1	20	16.08.2022
3.	Boot Camp on Solar Photovoltaic Technology	2	25	27.11.2021

### Seminars

S.No.	Title of Seminar/Webinar	Resource Persons	Participants	Date(s)
1.	Elevating Innovations to Entrepreneurship	1	38	19.10.2023
2.	Battery Management System and Charging Methods	1	22	23.08.2023
3.	Cyber Frauds in Payments Industry	1	103	13.03.2023
4.	NEP: New paradigm of Multidisciplinary TLEP	1	35	18.01.2023



5.	Application of Electric Drives in Automation	1	16	11.01.2023
6.	Research Opportunities in AI, IoT, Big Data and Robotics –A Paradigm Shift towards SDG Perspectives	1	50	25.06.2022
7.	Professional Ethical Practices and Values	1	25	18.05.2022
8.	Industrial Applications of Electric Drives	1	20	09.03.2022
9.	My Story -Motivational Speech by Successful Innovator	1	40	25.02.2022
10.	New Education Policy 2020 – An Overview	1	58	22.02.2022
11.	Outcome Based Education: Mapping of PSOs to Mission and Vision of Institution and Assessment Methodologies	1	63	10.02.2022
12.	Industrial Automation and Industry 4.0	1	25	01.11.2021
13.	Significance of Safety and Fire engineering	1	24	04.09.2021
14.	Control of Electrical Drives using Software	1	30	29.04.2021
15.	Network Analysis and Security Mechanisms	1	107	19.06.2020
16.	Augmented Reality and its Future in Industries	1	306	03.06.2020
17.	Electric Automotive System Design Through MBD using MATLAB	1	67	30.05.2020
18.	Zero Emission Technologies-Solar and Wind Energy	1	50	26.10.2019

#### Online Courses Completed

Sl. No.	Title	Platform
1.	Getting Started with Machine Learning Algorithms	Skillup
2.	Introduction to Machine Learning	NPTEL
3.	Energy Literacy Training	AICTE
4.	Yoga and Positive Psychology for Managing Career and Life	NPTEL
5.	ICT in Teaching and Learning	NITTR
6.	Introduction to Artificial Intelligence	Skill up

7.	Air Pollution and Control	NPTEL
8.	Enhancing Soft Skills and Personality	NPTEL
9.	Smart Cities	Open Learn
10.	Introduction to Sustainability	Coursera
11.	Renewable Energy and Green Building Entrepreneurship	Coursera
12.	Electric Power Systems	Coursera
13.	Electric Cars: Introduction	edX
14.	Introduction to Internet of Things and Embedded System	Coursera
15.	Introduction to Internet of Things	NPTEL
16.	Business English Certificate Preliminary	Cambridge University
17.	Educational Leadership	NPTEL
18.	Electric Vehicles Part 1	NPTEL
19.	Outcome Based Pedagogic Principles for Effective Teaching	NPTEL
20.	Electronic Waste Management – Issues and Challenges	NPTEL

#### **Awards and Recognitions Secured**

- Obtained ‘Young Educator & Researcher Award’ in the field of Power Electronics and Drives from National Foundation for Entrepreneurship Development (NFED) during National Teachers’ Day Awards 2022.
- Reviewer for “Journal of Energy Research and Reviews”
- Scientific Committee Member for International Conference on Recent Advances in Engineering and Computer Applications-2023, conducted by LJ School of Computer Applications and LJ University In Association with: Institute For Engineering Research and Publication (IFERP)

#### **Self-appraisal**

**Major Strengths :** Quick learning, good organizational skills.

**Major Weakness:** Focus on grants and consultancy

**Signature**