Sri Ramakrishna Institute of Technology

(An Autonomous Institution)

(Accredited by NAAC with "A" Grade)

Pachapalayam, Perur Chettipalayam, Coimbatore – 641 010

www.srit.org :: Phone – 0422-2605577

Faculty Profile

Full name with Qualification, Designation and Department:

Dr. A P Roger Rozario, B.E., M.E.,Ph.D.,

Assistant Professor (Sr.Gr),

Electrical and Electronics Engineering

Date of birth	:	08.10.1985	Gender	:	Male
Nationality	:	Indian	Marital status	:	Married
Address for correspondence	:	5a,VRV Nagar,GN mills post,Coimbatore-29	Permanent address	:	5a,VRV Nagar,GN mills post,Coimbatore-29
Mobile no	:	9843298282	e-mail (official)	:	rogerrozario.eee@srit.org
Landline	:	0422-2605577 extn 124	e-mail (personal)	:	roger.rozario@gmail.com
Date of joining	:	14.05.2014	Post of joining	:	Assistant Professor
No of promotions since D.O.J	:	One	Present post	:	Assistant Professor (Sr.Gr)
Present pay scale	:	15600-39100	Gross pay	:	41350
Employer ID	:	1307	Bank account No. (Salary credited)	:	500101010584075
P.F. No	:	TN/CBE/56764/637	Group Insurance No	:	AG00059675000102
PAN Number	:	ALZPR4407N	Aadhar Number	:	881735066679
AICTE ID	:	1-7383471515	AICTE Institution ID	:	1-7841521

Educational Qualification

Degree	Specialization	Year of Passing	Name of the College	Name of the University	Class Obtained
UG	B.E. Electrical and Electronics Engineering	2007	Sri Ramakrishna Engineering College	Anna University	First Class
PG	M.E. Power Electronics and Drives	2011	Regional Campus Anna University Coimbatore	Anna University	First Class with Distinction
Ph.D	Electrical Engineering	2023	Anna University Chennai	Anna University Chennai	-
Others					

Registration for Ph.D. with area of interest:

Year of Ph.D. Registration:2012   Year of Ph.D. Completed: 2023

Thesis Title: Design and Implementation of a water quality monitoring device and prediction of dissolved oxygen in shrimp ponds in India

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	Assistant Professor (Senior Grade)	01.06.2017	-	6	5	23
Sri Ramakrishna Institute of Technology	Assistant Professor	14.05.2014	31.05.2017	3	0	17
United Institute of Technology	Assistant Professor	01.06.2012	26.04.2014	1	10	25

Sri Shakthi Institute of Engineering and Technology	Assistant Professor	01.06.2011	31.05.2012	1	0	0
			Total	12	05	05

Industrial Experience

Name of the Organisation	Designation	Nature of Work	Joining Date	Relieving Date	Experience		
					Years	Months	Days
Wipro Technologies	Software Engineer	Software Engineer	01.07.207	26.05.2009	1	10	26
				Total	1	10	26

Courses Handled

Academic Year	Semester	Course Code	Course Name	Type of Course (T / L)	Pass Percentage
2023-24	5	20EE015	Electrical Machines -II	T	-
2023-24	5	20EEP34	Introduction to Rpi	T	-
2023-24	5	20EE017	Electrical Machines – II Laboratory	L	-
2022-23	6	20EE018	Electrical Machine Design	T	76
2022-23	4	20EE009	Electrical Machines -I	T	96
2022-23	4	20EE012	Electrical Machines – I Laboratory	L	98
2022-23	5	20EE015	Electrical Machines -II	T	97
2022-23	5	20EEP34	Introduction to Rpi	T	100
2022-23	5	20EE017	Electrical Machines – II Laboratory	L	100
2021-22	6	UEEC011	Design of Electrical Machines	T	98
2021-22	4	20EE012	Electrical Machines – I Laboratory	L	100
2021-22	8	UEEC017	Final Year Project Phase - II	L	100
2021-22	5	UEEC007	Induction and Synchronous Machines	Blended Course	100
2021-22	7	UEEE310	Switched Mode Power Converters	T	98
2021-22	7	UEEC016	Final Year Project Phase - I	L	100
2020-21	6	UEEC011	Design of Electrical Machines	T	100
2020-21	8	UEEC017	Final Year Project Phase - II	L	100
2020-21	5	UEEC007	Induction and Synchronous Machines	Blended Course	100

2020-21	7	UEEE310	Switched Mode Power Converters	T	100
2019-20	6	UEEC011	Design of Electrical Machines	T	100
2019-20	2	UICE002	Basic Electrical and Electronics Engineering	L	100
2019-20	5	UEEC007	Induction and Synchronous Machines	Blended Course	96
2019-20	7	EE6008	Microcontroller Based System Design	T	98
2018-19	6	EE6604	Design of Electrical Machines	T	92
2018-19	8	EE6010	High Voltage Direct Current Transmission	T	98
2018-19	5	EE6504	Electrical Machines – II	T	94
2018-19	2	UICE015	Engineering Workshop	L	100

Projects Guided

Academic Year	Semester	Project Title	UG / PG
2023-24	7,8	Universal Sensor Node for data collection	UG
2022-23	7,8	Solar panel fault detection and cleaning to improve the efficiency	UG
2021-22	7,8	Water quality monitoring using internet of things	UG
2020-21	7,8	Automatic aerator and Feeder for Inland Aquaculture	UG
2020-21	6,7	On Board Diagnostic Data detection for prediction of driving behavior for automated insurance claims	UG
2019-20	7,8	Measurement of phase angle for power factor correction	UG
2018-19	7,8	AI incorporated pick and place robotic arm	UG
2017-18	8	A three DOF pick and place robotic arm	UG
2016-17	8	Pick And Place Robotic Arm	UG
2015-16	8	IoT based fault detection of Solar Panels and automated Cleaning	UG
2014-15	8	RF based swimmer tracker for prevention of drowning in swimming pools	UG

Publications

Publications	SCI / Scopus / Web of Sciences	Others
Journal	8	-
Conferences	2	-

Journal Publications (IEEE format)

Rozario, A.P.R., Devarajan, N. RETRACTED ARTICLE: Monitoring the quality of water in shrimp ponds and forecasting of dissolved oxygen using Fuzzy C means clustering based radial basis function neural networks. J Ambient Intell Human Comput 12, 4855–4862 (2021). https://doi.org/10.1007/s12652-020-01900-8

Roger Rozario, Pravinthraja.S, Arjuman Banu.S, Nagarani.S," A Watchdog for Indigenous Cattle Breeds to Increase Milk Yield in Indian Dairy Farms", International Journal of Pure and Applied Mathematics, Volume 120, No. 6, 2018, 165-178, ISSN: 1314-3395

Roger Rozario.A. P ,Pravinthraja.S, Nagarani.S, Kavitha N.S," Intelligent Mushroom Monitoring System", International Journal of Engineering & Technology, Volume 7 ,2018), pp.1238 – 12 42

Roger Rozario.A. P, Pravinthraja.S, Arjuman Banu.S, Nandhini.M, "Recent Advances in IOT based Wireless sensors for Cattle Health Management -A review", International Journal of Institutional & Industrial Research ISSN: 2456-1274, Vol. 3, Issue 1, Jan-April 2018, pp.78-80

Pravinthraja.S, Roger Rozario.A. P, Nagarani.S, Kavitha.N. S, Raghul Kumar," IoT Based Mushroom Monitoring System – A Survey ", International Journal of Recent Research Aspects ISSN: 2349-7688, Vol. 5, Issue 1, March 2018, pp. 311-314

Ramkumar.E, Nagarani.S, Roger Rozario A. P, Arjuman Banu.S," Tomen: A Plant monitoring and smart gardening system using IoT ", International Journal of Pure and Applied Mathematics, Volume 119 No. 7 2018, 703-710 ISSN: 1311-8080 (printed version); ISSN: 1314-3395 (on-line version)

Sudarshan V, A. P. Roger Rozario, Christob Arputharaj, "Design and Analysis of a Cordic Based Autonomous Robot for Obstacle Avoidance in a Static Indoor Environment", International Journal of Electrical Engineering & Technology, Volume 8, Issue 2, Pages 93-100, June 2017.

C. K. Shankar, A. P. Roger Rozario, C. Ganesh and G. Leo sekar, "Obliteration of Harmonics on a VSI Fed Induction Motor Drive", International Journal of Applied Engineering Research ISSN 0973-4562, Volume 11, Number 3 (2016), pp 2071-2076

Conference Publications (IEEE format)

A.P. Roger Rozario, Selvakumari M.L, Mahalakshnmi M "A 4 DOF Pick and Place Robotic Arm",International conference, May 2017 at KPR college of Engineering and Technology, Coimbatore.

V. Yuvaraj, S.N. Deepa, A.P. Roger Rozario, Madhusudan Kumar, "Improving Grid Power Quality with FACTS Device on Integration of Wind Energy System", Asia International Conference on Modelling & Simulation, Asia International Conference on Modelling & Simulation, 2011, pp. 157-162.

Books / Book Chapters (IEEE format)

Nil

Sponsored Research

Project Title	Funding Agency	Amount Rs.	Duration
Watchdog for Aquaculture Farms	DST	20,00,000	1 YEAR
Design and Implementation of a water quality monitoring device and prediction of dissolved oxygen in shrimp ponds in India	AICTE RPS	7,00,000	3 YEARS
Brain Machine Interfaced Robotic arm for feeding differently abled persons	SRIT RPS	149500	1 YEAR
Serve and Player Foul Indicator for Basketball	SNR SONS CHARITABLE TRUST	16735	2 months
Electronic Notice Board	SNR SONS CHARITABLE TRUST	28869	2 months
Autonomous Mobile Robot	SNR SONS CHARITABLE TRUST	23550	3 months
Scoreboard for Basketball Tournament	SNR SONS CHARITABLE TRUST	49250	3 months
Brain controlled Prosthetic Arm	SRIT RPS	7500	6 months

Consultancy

S. No.	Organization/ Agency	Nature of Work	Amount in Rs.	Year
1	Foretech Engineers	Interactive Electrical Website development	75000	2016

Workshops / Seminars attended

Two-day Workshop on, "Soft Computing Techniques", 17th and 18th of July, 2023 at Amrita University, Coimbatore.

"ELECRAMA 2022", The World Electricity Forum held between 13th-17th February 2022 at Bangalore International Exhibition Center, Bengaluru.

Two-day "International workshop on Outcome Based Education", on 15th and 16th September 2021 at Rathinam Technical Campus.

One-week ISTE STTP on, "Electrical Power Systems", 1st to 5th May, 2019 at IIT Kharagpur.

Boot Camp Training for Entrepreneurs, on 16th and 17th June, 2017 at IIM Bangalore.

Two-day hands-on training workshop on "Python Programming", on 28th and 29th August 2017 at Coimbatore Institute of Technology.

One Week STTP on "ICT based ANN and Fuzzy Logic" by NITTTR Chandigarh on 24th April to 28th April at Sri Ramakrishna Institute of Technology.

Two-week ISTE STTP on, "Electrical Power Systems", 10th to 15th July, 2017 at IIT Kharagpur.

Faculty Development Program attended (from recent)

Four Week AICTE approved FDP by IIT Bombay on "Use of ICT in Education for Online and Blended Learning", from 2nd May to 10th July 2022.

Four-day Faculty development program on "Analog, Power, Embedded Systems and Wireless (IOT) Hands on Workshop ", conducted jointly by Texas Instruments, Four- Bangalore at Akshya College of Engineering, Coimbatore from 21st to 24th June 2021.

Two-day Faculty development program on "Introduction to MATLAB and its applications in Engineering", from 15th to 16th November,2019 at Sri Ramakrishna Institute of Technology, Coimbatore.

Three-day Faculty development program on "Internet of Things – an initiative", from 28th to 30th November,2018 at Sri Ramakrishna Institute of Technology, Coimbatore.

Three-day Faculty development program on "Soft Computing Techniques using MATLAB for Engineering Research", from 9th to 11th August ,2017 at Sri Ramakrishna Institute of Technology, Coimbatore.

Two-weeks workshop on, "Control systems", 2nd to 12th December, 2014 at Sri Ramakrishna Institute of Technology, Coimbatore conducted by IIT, Bombay, India.

Events Organized

One day Hands on Workshop on Rootics for Rasperrypi on 12th August, 2023 at Sri Ramakrishna Institute of Technology, Coimbatore

One day Hands on Workshop on Arduino with TIKERCAD platform on 12th August, 2023 at Sri Ramakrishna Institute of Technology, Coimbatore

One day Hands on Workshop on Autonompus mobile Robots on 12th August, 2023 at Sri Ramakrishna Institute of Technology, Coimbatore

One day Hands on Workshop on Protocols for IoT on 12th August, 2022 at Sri Ramakrishna Institute of Technology, Coimbatore

One day Hands on Workshop on Sensors for Robotics on 12th August, 2022 at Sri Ramakrishna Institute of Technology, Coimbatore

One day Hands on Workshop on MSP430 microcotrollers on 15th June,2021 at Sri Ramakrishna Institute of Technology, Coimbatore

One day Hands on Workshop on Arduino platform on 17th August, 2022 at Sri Ramakrishna Institute of Technology, Coimbatore

One day Hands on Workshop on Arduino platform on 14th August, 2015 at Sri Ramakrishna Institute of Technology, Coimbatore

A Practical approach towards Embedded systems Design on 22nd and 23rd July 2016 at Sri Ramakrishna Institute of Technology, Coimbatore

One day National Level Hands-On Workshop on "Unmanned Aerial Vehicle Drone " on 13th July ,2018 at Sri Ramakrishna Institute of Technology

One day National Level Hands-On Workshop on Controllers for IoT on 14th July ,2018 at Sri Ramakrishna Institute of Technology

Acted as a workshop coordinator for Two Week ISTE STTP Workshop on "Electric Power Systems" for Engineering Faculties of Coimbatore District on 10th July to 15th July,2017 at Sri Ramakrishna Institute of Technology, Coimbatore and received a fund of ₹ 80,000 from IIT Kharagpur

Acted as a workshop coordinator for Arduino and Tina workshop from and generated a fund of ₹ 90,000

One day Hands on Workshop on Arduino platform on 30th July 2014 at Sri Ramakrishna Institute of Technology, Coimbatore

One day Hands on Workshop on Arduino platform on 13th August, 2014 at Sri Ramakrishna Institute of Technology, Coimbatore

One day Workshop on TINA on 7th   February, 2015 at Sri Ramakrishna Institute of Technology, Coimbatore

One day Workshop on TINA on 21st February, 2015 at Sri Ramakrishna Institute of Technology, Coimbatore

One day Hands on Workshop on Arduino platform on 8th August, 2015 at Sri Ramakrishna Institute of Technology, Coimbatore

One day Hands on Workshop on Arduino platform on 12th August, 2015 at Sri Ramakrishna Institute of Technology, Coimbatore

One day Hands on Workshop on Arduino platform on 14th August, 2015 at Sri Ramakrishna Institute of Technology, Coimbatore

A Practical approach towards Embedded systems Design on 22nd and 23rd July 2016 at Sri Ramakrishna Institute of Technology, Coimbatore

One day National Level Hands-On Workshop on "Unmanned Aerial Vehicle Drone " on 13th July ,2018 at Sri Ramakrishna Institute of Technology

One day National Level Hands-On Workshop on Controllers for IoT on 14th July ,2018 at Sri Ramakrishna Institute of Technoloy

Online Courses Completed

Sl. No.	Title	Platform
1	**Building Arduino robots and devices**	Moscow Institute of Physics and Technology-Coursera
2	**AI For Everyone**	DeepLearning.AI-Coursera

3	Renewable Energy and Green Building Entrepreneurship	Duke University-Coursera
4	Spreadsheets for Beginners using Google Sheets	Coursera Project Network
5	Introduction to the Internet of Things and Embedded Systems	University of California, Irvine - Coursera
6	Electric Power Systems	University at Buffalo, The State University of New York - Coursera
7	Introduction to Project Management	Coursera Project Network
8	Introduction to Google Docs	Coursera Project Network
9	The Arduino Platform and C Programming	University of California, Irvine-Coursera
10	Retrieve Data with Multiple-Table SQL Queries	Coursera Project Network
11	Manipulating Data with SQL	Coursera Project Network
12	Interfacing with the Arduino	University of California, Irvine-Coursera
13	The Raspberry Pi Platform and Python Programming for the Raspberry Pi	University of California, Irvine - Coursera
14	Introduction to Relational Database and SQL	Coursera Project Network
15	Creating Database Tables with SQL	Coursera Project Network
16	Interfacing with the Raspberry Pi	University of California, Irvine
17	Advanced Relational Database and SQL	Coursera Project Network
18	Retrieve Data using Single-Table SQL Queries	Coursera Project Network
19	Intermediate Relational Database and SQL	Coursera Project Network

Awards and Recognition Secured

Established a company with a seed fund of 20 Lakhs from Department of Science and Technology withThree EEE students (2017 passed out).

Company Name: **Shrimp Hoard Technologies**

Director Identification Number: **07984708**

Corporate Identity Number U74999TZ2017PTC02964

www.shrimphoard.com

Participated in various National Level competitions and won prizes and promoted entrepreneurshipamong students

India Innovation Challenge Design Contest 2015 (Quarter

Finals): **200 USDIndia Innovation Challenge Design Contest**

2016 : **₹ 33 Lakhs**

- o   Product Development: **₹ 5 Lakhs**
- o   Chairman's Award: **₹ 7 Lakhs**
- o   Seed Fund (DST): **₹ 20 Lakhs**
- o   Prizes for Progressing in various stages of the

competition: **₹ 1 Lakh**

- o   **ELECRAMA 2016** – Engineer Infinite: **₹ 42,000**

India Innovation Challenge Design Contest 2017 (Quarter Finals): **600 USD** for 3 proposals

EUREKA 2017 – E-Cell IIT Bombay : 6 proposals

Accenture Innovation Challenge 2018: Qualified for Finals

At **University Malaysia Perlis**, Won a **Double Gold and a Silver medal** for the best innovative productat International Engineering Invention and Innovation Exhibition 2018 (IENVEX 2018).

At **Korea University**, Won **Gold Medal** for the best product at World Invention Creativity Olympic(WICO-2018)

In **Sri Lanka**, Participated at IEEE SS12,2018, Age of Innovation Project Competition and Maker Fair atNSBM Greens University Town, Colombo.

Participated and won awards in INVIDE 2023 – 1 Silver,1 Gold and 1 Double Gold Award (Product IDs –INVIDE 2023 295, INVIDE 2023-259)

Self-appraisal

Major Strengths

Patents Granted -2 , Patents Applied – 6

Student Startup Established with seed funding

Funds Received from various organizations like AICTE,DST,DBT,Texas Instruments etc

Winner of major international and national project and product competitions

Mentor for students product and projects leading to entrepreneurship

NBA and NAAC expert and criteria coordinator

Resource person for Workshops on Microcontroller and Robotics

Major Weakness

Participation in Industry Interaction and collaboration

Author for Book Publications

Signature