



# 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

**Mr. C ANANDHAKUMAR, B.E., M.E.,**

Assistant Professor,

Electrical and Electronics Engineering



<b>Date of birth</b>	:	03.01.1985	<b>Gender</b>	:	Male
<b>Nationality</b>	:	Indian	<b>Marital status</b>	:	Married
<b>Address for correspondence</b>	:	4/91, North Street, Devarayapuram (POST), Coimbatore - 641109	<b>Permanent address</b>	:	110, Eranian Street, Railway colony (POST), Solar, Erode – 638002
<b>Mobile no</b>	:	9952284023	<b>e-mail (official)</b>	:	anandhakumar.eee@srit.org
<b>Landline</b>	:	-	<b>e-mail (personal)</b>	:	canandhakumar03@gmail.com
<b>Date of joining</b>	:	14.06.2018	<b>Post of joining</b>	:	14.06.2023
<b>No of promotions since D.O.J</b>	:	-	<b>Present post</b>	:	Assistant Professor
<b>Present pay scale</b>	:	15600-39100 and 6000	<b>Gross pay</b>	:	36611/-
<b>Employee ID</b>	:	TE345	<b>Bank account No. (Salary credited)</b>	:	500101011720133
<b>P.F. No</b>	:	TN/CBE/56764/10851	<b>Group Insurance No</b>	:	AG00059675000102
<b>PAN Number</b>	:	AYTPA1003G	<b>Aadhar Number</b>	:	556025834425
<b>AICTE ID</b>	:	1-4700122693	<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.E. – Electrical and Electronics Engineering	2009	Erode Sengunthar Engineering College	Anna University, Chennai	First Class
PG	M.E. – Power System Engineering	2013	Anna University Regional Campus, Coimbatore	Anna University, Chennai	First Class
Ph.D					
Others					

**Registration for Ph.D. with area of interest:** Yes, Electric Vehicle Battery Management systems

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

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

**Thesis Title:** -

**Supervisor Recognition Number:**

**Ph.D. Scholar Details**

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

**Academic Experience**

Name of the College	Designation	Joining Date	Relieving Date	Experience		
				Years	Months	Days
Sri Ramakrishna Institute of Technology, Coimbatore	Assistant Professor	14.06.2018	-	5	5	10
Park College of Engineering and Technology	Assistant Professor	12.08.2015	13.06.2018	2	10	2
Coimbatore Institute of Engineering and Technology	Assistant Professor	01.07.2013	11.10.2014	1	3	11
Coimbatore Institute of Engineering and Technology	Lecturer	26.12.2012	30.05.2023	-	5	5
Ranganathan Engineering	Lecturer	01.06.2012	24.12.2012	-	6	24

College						
Coimbatore Institute of Engineering and Technology	Lecturer	10.03.2010	30.04.2012	2	1	21
<b>Total</b>				<b>12</b>	<b>8</b>	<b>8</b>

### Industrial Experience

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

### Courses Handled

Academic Year	Semester	Course Code	Course Name	Type of Course (T / L)	Pass Percentage
2023-2024	Fifth	20EE013	Power System Analysis	T	-
2023-2024	Third	20EEE06	Electric Vehicle	T	-
2022-2023	Sixth	20EEP05	Power Quality	T	75
2022-2023	Eighth	UHSG001	Indian Constitution, Democracy and World affairs	T	100
2022-2023	Second	20MEG02	Engineering Workshop Lab	L	100
2022-2023	Seventh	UEEC106	Energy Auditing and Management	T	100
2021-2022	Fourth	20EE008	Transmission and Distribution	T	100
2021-2022	Sixth	UEEE114	Hybrid Electric Vehicle	T	90
2021-2022	Second	20MEG02	Engineering Workshop Lab	L	100
2021-2022	Seventh	UEEC106	Energy Auditing and Management	T	100
2021-2022	Fifth	UEEC009	Power system Analysis	T	100
2021-2022	Fifth	UEEC103	Power System Simulation Laboratory	L	100
2020-2021	Sixth	UEEE114	Hybrid Electric Vehicle	T	100
2020-2021	Seventh	UEEC106	Energy Auditing and Management	T	100
2020-2021	Third	UICE009	Electrical Drives and Control	T	89.09
2019-2020	Sixth	UEEC105	Utilization and Conservation of Electrical Energy	T	100

2019-2020	Fourth	UEEG004	Renewable Energy Systems	T	100
2019-2020	Fifth	UEEE101	EHV Power Transmission	T	100
2019-2020		UEEC102	High Voltage Engineering	T	97.61
2019-2020	Fifth	UEEC103	Power System Simulation Laboratory	L	100

### Projects Guided

Academic Year	Semester	Project Title	UG / PG

### Publications

Publications	SCI / Scopus / Web of Sciences	Others
Journal	5	
Conferences	2	

### Journal Publications (IEEE format):

- **Anandhakumar C**, Sakthivel Murugan N S, Kumaresan K, “Extreme Learning machine model with honey badger algorithm-based state of charge estimation of Li-ion battery” Journal of expert systems with applications, March 2024, Volume.238, issue. Part-A,
- **Anandhakumar C**, Thangam E, “Application of an automatic three phase power supply phase selector in the medical ventilator” Journal of Pharmaceuticals Negative results, Dec 2022, Volume.13, issue.7, PP 4818-4823.
- **Anandhakumar C**, Karthick B, Ramya P, Ajaikrishnan M, “A Review on future challenge on EV Range extension”, International journal of research and analytical reviews, April 2022, Volume.9, Issue.2 PP 44-48
- **Anandhakumar. C**, Vidyalakshmi. R and Gaayathry K, “Torque ripple reduction in permanent magnet synchronous motor using predictive control scheme,” Test Engineering and management, 2020 February, Volume 82, PP 5728 – 5733.
- **Anandhakumar. C** and Udaiyakumar. S “Non Linear Carrier Controlled Power

Factor Correction Boost Converter,” 2019 JETIR February 2019, Volume 6, Issue 2.

**Conference Publications (IEEE format):**

- **Anandhakumar. C**, Arun. P, Senthilkumar. S, Anshad.M “Solar Powered Water Hyacinth Remover With Load Equalization” International conference on at Selvam College of Technology, Salem, On 7<sup>th</sup> and 8<sup>th</sup> March 2019
- **Anandhakumar. C**, Madhankumar. C “Bridgeless Cuk Converter Fed BLDC Motor with Power Factor Correction For Air Conditioning System” International conference at Karpagam college of engineering, Coimbatore

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

- Dr. K. Murali, Dr. K. Akil, **Mr. C. Anandhakumar**, Mr. K. Sampath “Sustainable and Green Engineering” COSMOS Scientific Publications, ISBN: 978-81-19359-49-3, Sep 2023,

**Sponsored Research**

Project Title	Funding Agency	Amount Rs.	Duration
Retrofit the conventional Scooty to E-Scooty	SNR Trust	60000.00	1 Years
Motor Sizing and Retrofitting of EV	SRIT-RPS	7500.00	6 Months

**Consultancy**

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

**Workshops / Seminars attended:**

- Attended National level webinar on” Future of Lithium based batteries – In Indian scenario”Conducted by physics scientific tempo of department of applied physics, Karunya University, held on 18.06.2021.
- Attended three days webinar on “Home energy assessment and audit” conducted by PSNA college of Engineering and Technology, from 18.05.2020 to 20.05.2020

### Faculty Development Program attended (from recent)

- Attended FDP in **“Recent trends and Innovations in Electric Vehicles”** conducted by Sri Krishna College of Technology, Coimbatore from 30.01.2023 to 03.02.2023.
- Attended in Two weeks FDP on **“Applications of Machine Learning and Deep Learning in Electrical Engineering”** from 24th May to 06th June 2021.
- Attended ATAL-FDP in **“Framework for Online Assessment”**, conducted by National Institute of Technical Teachers Training and Research (NITTTR), Chennai, from 12.07.2021 to 16.07.2021.
- Attended one week ATAL FDP on **“Artificial Intelligence”** from 04th Jan to 08th Jan 2021, conducted by PSNA College of Engineering and Technology.
- Attended AICTE Sponsored STTP on **“Electric Vehicle Technology”** from 12 th April to 17th April 2021.
- Attended Two weeks FDP on **“Advances in Power Electronics For Smart Grid, Renewable Energy Systems And Electric Vehicle Technology”** from 07th Dec to 19th Dec 2020.
- Attended ATAL-FDP in **“Electric Vehicles”**, conducted by IEFT College of Engineering, Ganagarampalaiyam, from 30.11.2020 to 04.12.2020.
- Attended ATAL-FDP in **“Energy Engineering”**, conducted by Government College of Technology (GCT), Coimbatore from 23.11.2020 to 27.11.2020.
- Attended STTP in **“Engineering Optimization”**, conducted by Indian Institute of Science (IISc), Bangalore from 15.07.2019 to 19.07.2019.
- Attended NPTEL-FDP in **“Electric Vehicles Part-I”** Conducted by Dr.Amitkumar, Indian Institute of Technology (IIT), Delhi during 2019..
- Attended NPTEL-FDP in **“Design of Photovoltaic”** Conducted by Dr.Umanand, Indian Institute of Science (IISc), Bangalore from July – Oct 2018.
- Attended NPTEL-FDP in **“Design of Photovoltaic”** Conducted by Dr.Umanand, Indian Institute of Science (IISc), Bangalore from July – Oct 2018.
- Attended NPTEL-FDP in **“Electric Vehicles Part-I”** Conducted by Dr.Amitkumar, Indian Institute of Technology (IIT), Delhi during 2019..
- Attended STTP in **“Engineering Optimization”**, conducted by Indian Institute of Science (IISc), Bangalore from 15.07.2019 to 19.07.2019.

## Events Organized (from recent)

Conference: Nil

FDP: Nil

## Workshops:

- Organized One day hands on Workshop in Electric Vehicle Retrofitting on Nov 6<sup>th</sup> 2023.
- Organized workshop on “Electric Vehicle Design” on 25th May 2020.
- Organized workshop on “Green Mobility and IoT” on 22nd July 2019.

## Seminars

- Organized world student’s day celebration on 15th Oct 2021.
- Organized seminar on “Solar PV Design and installation” on 16th Aug 2021.
- Organized seminar on “HEV-Motor Sizing” on 27th Apr 2021.
- Organized an awareness webinar on “opportunities in Engineering through GATE and ESE” on 15th June 2021.
- Organized seminar on “Future transportation” on 22nd Aug 2019.
- Organized National level one day seminar “Smart grid and IoT” on 10th Jan 2019.
- Conducted one day seminar on “Ozone day” and conducted various competition like drawing, poem writing (Tamil and English) and debate on 06.09.2018 and the prize winners are honoured on 18.09.2019
- Conducted IoT Challenge webinar on 2019 and 2020 and two team went to IIT Bombay for the final round. Organized a one day Seminar on “Smart grid and IoT”, on 10.01.2019.

## Online Courses Completed

Sl. No.	Title	Platform
1.	Electric Vehicles and Mobility	Coursera.
2.	Electric Vehicle – Part I	NPTEL.
3.	Equivalent Circuit Cell model for EV Battery	Coursera.
4.	Introduction to Battery Management System	Coursera.
5.	Leadership and Emotional Intelligence	Coursera.
6.	Deep learning with Tensorflow	Edx
7.	Design of Photovoltaic	NPTEL.
8.	Electric Cars: Technology	Edx
9.	What is Leadership?	Future Learn
10.	Learn to Design your own Solar Home System	Energy Swaraj Foundation (You tube)
11.	How to teach online: Providing continuity for	Future Learn

	students	
12.	Introduction to Basic Electrical Drawings and Test Equipment	Alison

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

- **Lead Auditor award** being a lead auditor in Nature Science Foundation awarded on 25.02.2023.
- **Silver Medal** for the project titled “Design and Implementation of BMS for EV” exhibited in i2create-2021 held at university of Malaysia Perlis, Malaysia.
- **Gold Medal**, for the Invention entitled “Ecofriendly Dye Extraction From Cyanophyta for Textiles” exhibited at International art Creativity & Engineering Exhibition I+ACEH 2019 held at Universitas Ubudiyah Indonesia Cyber University, Indonesia.
- **Special Award** for the Invention entitled “Ecofriendly Dye Extraction From Cyanophyta for Textiles” exhibited at International art Creativity & Engineering Exhibition I+ACEH 2019 held at Universitas Ubudiyah Indonesia Cyber University, Indonesia.
- **Semi Grand Award** for the Invention entitled “IoT Based Smart Irrigation System” exhibited at International art Creativity & Engineering Exhibition I+ACEH 2019 held at Banda Aceh, Indonesia.
- **Mughil Gnani Award** for being a judge in drawing Competition conducted by Yavarum keeler skill development system approved by MSME. on 25.07.2021.
- External Examiner for valuation for various Autonomous Colleges.
- Qualified CDCA (Coimbatore District Cricket Association) Umpire.

#### **Self-appraisal**

##### **Major Strengths:**

Hardworking and Dedication.

Passion towards teaching and continuous learning.

Team work and Quick Learning.

##### **Major Weakness**

Project Consultancy to Industries to be improved.

Research Funding and applying patent activities to be improved.

Publishing Books and journals to be improved.

**Signature**