

BIO DATA



Name : Mr. E. Thangam
Designation : Assistant Professor (Senior Grade)
Department : Electrical and Electronics Engineering
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Google Scholar link : https://scholar.google.co.in/citations?hl=en&user=2y3_YMMAAAAJ

1. Educational Qualification

Degree	Branch / Specialization	Institute/University	Year of Passing
B.E.	Electrical and Electronics Engineering	Noorul Islam College of Engineering, Thuckalay Anna University, Chennai – 600 025	2009
M.E	Power Systems Engineering	Regional Centre of Anna University, Coimbatore Anna University, Chennai – 600 025	2013
Ph.D	Generation Expansion Planning	Anna University, Chennai – 600 025	Pursuing

2. Professional/ Industry Experience

: (9 Years)

S.No	Designation	Institution/ Organization	Period	
			From	To
1	Assistant Professor (Senior Grade) EEE	Ramco Institute of Technology, Rajapalayam	01.06.2018	Till date
2	Assistant Professor EEE	Ramco Institute of Technology, Rajapalayam	01.06.2016	31.05.2018
3	Assistant Professor- EEE	Ranganathan Engineering College, Coimbatore	01.06.2014	30.04.2016

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4.	Lecturer	Ranganathan Engineering College, Coimbatore	01.06.2012	31.05.2014
5.	Lecturer	Coimbatore Institute of Engineering and Technology, Coimbatore	16.08.2011	31.05.2012
6.	Lecturer	Sri Ramakrishna Mission Vidyalaya Polytechnic College, Coimbatore	02.02.2010	13.08.2011

3. Research Interest

Main Domain : Power System Engineering

Sub Domain : Generation Expansion Planning

Tentative Topic : Evaluation of Flexibility in Generation Expansion Planning

4 Publications

4.1 Journal Publications

- P. Ganga Devi, M. Muthu Meenakshi, B. Vasuki, **E. Thangam**, “Design and Implementation of Autonomous Paint Spraying Machine Using PLC”, International Journal of Scientific Research in Science and Technology (IJSRST), Volume: 09, Issue: 01, April 2021, DOI : 10.32628/IJSRST219195
- Deepthi L R, Divya Dharshini J N, Vishwa Bharathi R, **Thangam E**, “Design and Implementation of Three Floor Lift Using PLC”, International Journal of Scientific Research in Science and Technology (IJSRST), Volume: 09, Issue: 01, April 2021, DOI : 10.32628/IJSRST2191101
- M. Kirubah, K. Sivapriya, G. Yashaswini, **E. Thangam**, “Solar Sewage Treatment System”, International Research Journal of Engineering and Technology (IRJET), Volume: 07 Issue: 02 | Feb 2020
- Sinsha, **E Thangam** “Bridgeless Cuk Converter Fed BLDC motor with power factor correction for air conditioning system” International Journal of Engineering Research and Technology ESRSA Publication 14.02.2014
- Lovisal C, **E Thangam** “Fuzzy Optimization Using TCSC Device for Congestion Management” International Journal of Engineering Research and Applications, IJERA Publication 01.03.2014

4.2 Conference Publications

- P. Ganga Devi, M. Muthu Meenakshi, B. Vasuki, **E. Thangam**, “Design and Implementation of Autonomous Paint Spraying Machine Using PLC”, International Journal of Scientific Research in Science and Technology (IJSRST), Volume: 09, Issue: 01, April 2021, DOI : 10.32628/IJSRST219195

- Deepthi L R, Divya Dharshini J N, Vishwa Bharathi R, **Thangam E**, “Design and Implementation of Three Floor Lift Using PLC”, International Journal of Scientific Research in Science and Technology (IJSRST), Volume: 09, Issue: 01, April 2021, DOI : 10.32628/IJSRST2191101
- S.Muthukrishnan, K.Sathya, **E.Thangam**, “Auto light intensity controller using 8051”, National Web Conference on Challenges and Innovation in Engineering & Technology 2021 (NWCCIET -2021), Ramco Institute of Technology, Rajapalayam, March 2021.
- **E. Thangam**, B.V. Manikandan, A. Arun Kumar, “A Novel Power Supply Phase Selector Using Programmable Logic Controller”, International Web conference on Smart Engineering Technologies 2020”, Rajapalayam, June 26, 27, 2020, Page. No: 51
- R. Manisha, K. Swathi, M. Nivetharajam, **E. Thangam**, “WSN Based Model for Anti Collision Accident Prevention for Train”, National Conference on Green Mechatronics System, Coimbatore, March 17, 18, 2020
- B.Ajitha, R.Bavatharani, A.Deepika, V.Dharani, **E. Thangam**, “ Automated Window Cleaning Robot” National Conference P.S.R. Rengaswamy College of Engineering for Women 07.03.2019
- K. Gokila , A. Harishmaa, G. Muthu Lakshmi , R. Shanmuga Priya, **E. Thangam**, “ Intelligent Traffic Light Control System” National Conference P.S.R. Rengaswamy College of Engineering for Women 07.03.2019
- P.Gayathri, S.Kartheeswari, K.Priyadharsini, **E. Thangam**, “Water Mist Fire Extinguisher in cracker industry using PLC” 5th International Conference on Trends in Technology and Engineering, Arjun College of Technology, Coimbatore 07.04.2018
- E.Thangam “Efficient Highway Lighting System” National Conference on Innovations in Communication and Technology for social development” Ramco Institute of Technology Rajapalayam 23.03.2018
- J.Aravinth, R.Stephen franz, S.Vinoth Kannan, P.Rajkumar, **E. Thangam**, “VAWT Based Energy Efficient Highway Lighting System” National Conference on Innovations in Communication and Technology for social development Ramco Institute of Technology, Rajapalayam 23.03.2018
- M. Karthik, B. Karthikeyan, M.Vignesh, **E. Thangam**, “PLC Based Automatic Vertical Rotary car parking System” National Conference on Engineering Applications Universal College of Engineering and Technology Tirunelveli 16.03.2018
- S.Amirtha Priya, S.A.Lakshmi Gomathy, P.Krishnaveni, M.Malathi **E. Thangam** “Embedded Based Secured Circuit Breaker operation” National Conference on Innovations in Engineering, Science and Technology” Ramco Institute of Technology Rajapalayam 24.03.2017

- A.Athmanathan, S.Samandham, P.Sudharson **E. Thangam**, “Power Saving and Monitoring in Injection Moulding Machine” National Conference on Innovations in Engineering, Science and Technology Ramco Institute of Technology Rajapalayam 24.03.2017
- **E. Thangam**, B. Ashok “Web Based Automatic Monitoring and Controlling Irrigation Field system using LABVIEW” 7th National Conference on Advancement in Electrical Systems” SNS College of Technology, Coimbatore 19.02.2016
- Sinsha, **E. Thangam** “Bridgeless Cuk Converter fed BLDC Motor with Power Factor Correction for Air Conditioning system” National Conference on Recent Evolutions of Computer and Electronics in Power Technologies -2016 Karpagam College of Engineering, Coimbatore 12.02.2016
- M. Vanitha, **E. Thangam**, S. Jayasree “Solution of Economic Dispatch Problem using a Hybrid Technique with Valve point Loading Effect” First National conference on Electrical Systems RVS College of Engineering and Technology, Coimbatore 21.03.2012

4.3 Book/Book chapter publications

NIL

5 Funded Projects

S.No.	Title of the project	Funding Agency	Duration	Amount	Status
1.	Solar Dryer for Corn Grains for Alangulam Village Farmers	Unnat Bharat Abhiyan, New Delhi	5 Months	Rs.50,000	Applied
2.	In-house School Awareness Seminar on “Electrical Energy Conservation in your Home”	DRDO, New Delhi	6 Months	Rs. 8.5 Lakh	Applied
3.	Electrical Energy Theft Detection in Metering Infrastructure	Tamil Nadu State Council for Science and technology	6 Months	Rs. 8,500	Applied
4.	Self-Monitoring of Solar Photovoltaic	Tamil Nadu State Council for Science and technology	6 Months	Rs. 8,000	Applied

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	Panel				
5.	Power Supply Phase Selector using PLC	Tamil Nadu State Council for Science and technology	6 Months	Rs. 9,825	Applied
6.	Solar sewage treatment system	Tamil Nadu State Council for Science and technology	6 Months	Rs. 10,000	Applied

6 Ph.D. guidance

Sl.No	Scholar name	University	Topic	Status
-	-	-	-	-

7 Short term Courses / Seminars /FDP/Workshop/ConferenceAttended:

Sl.No	Title of the event	Organized by	Date	
			From	To
1.	Modelling of Solar & Wind Energy System with Design Techniques of Converter and Inverter Topologies	Karpagam Academy of Higher Education	12.03.2021	12.03.2021
2.	Value added Course on “PLC Programming”	PACR Polytechnic College, Rjpm	12.03.2021	21.03.2021
3.	ATAL FDP on “Electric Vehicles”	Fr.C.Rodrigues Institute of Technology, Vashi	02.11.2020	06.11.2020
4.	ATAL FDP on “Smart Cities”	Nitte Meenakshi Institute of Technology, Bangalore	05.1.2020	09.1.2020
5.	Circuit Design using AutoCAD Electrical (Online Live FDP)	ICT Academy	20.07.2020	24.07.2020
6.	Circuit Design using AutoCAD Electrical (Online Live FDP)	ICT Academy	16.08.2021	20.08.2021
7.	Recent Trends in Electrical Engineering (Online FDP)	Geethanjali Institute of Science and Technology, Nellore	16.08.2021	23.08.2021
8.	Electric Vehicle - Design	Sri Ramakrishna Institute of Technology, Coimbatore	25.05.2020	25.05.2020
9.	Entrepreneurship and Patenting Opportunities	Cape Institute of Technology, Nagercoil	26.05.2020	26.05.2020

10.	Online FDP on “Artificial Intelligence”	Christian College of Engineering and Technology, Dindigul	22.05.2020	26.05.2020
11.	Research challenges in Wind Energy Systems	Chennai Institute of Technology, Chennai	22.05.2020	22.05.2020
12.	FDP on “Protection and Switchgear”	PSNA college of Engineering and Technology, Dindigul	20.05.2020	22.05.2020
13.	FDP on “Research Opportunities in Electrical Engineering and it's Applications”	P.S.R Engineering College, Sivakasi	18.05.2020	23.05.2020
14.	FDP on “Python Programming”	Guru Nanak University, Hyderabad	18.05.2020	21.05.2020
15.	Electrical Power Utility Management – 2020	K.L.N College of Engineering, Madurai	15.05.2020	16.05.2020
16.	Smart Grid Technology for Modern Power systems	Sri Ranganathar Institute of Technology, Coimbatore	15.05.2020	15.05.2020
17.	Smart Grid Technology For Modern Power Systems	Sri Ranganathar Institute of Engineering and Technology, Coimbatore	15.05.2020	15.05.2020
18.	FDP on “PLC’s in the world of Automation”	PSNA college of Engineering and Technology, Dindigul	14.05.2020	15.05.2020
19.	Emerging Trends in Electric Vehicles	Jeppiaar Institute of Technology, Chennai	14.05.2020	15.05.2020
20.	IEEE Xplore Digital Library	IEEE	14.05.2020	14.05.2020
21.	How to Formulate a Research Problem?	Ramco Institute of Technology, Rajapalayam	13.05.2020	13.05.2020
22.	Transition to Digital World	A.V.C College of Engineering, Mayiladuthurai	13.05.2020	13.05.2020
23.	Future Scope in IoT and E-vehicles	Anand Institute of Higher Technology, Chennai	13.05.2020	13.05.2020
24.	FDP on “Improving Your Research Visibility – Research Impact and Metrics”	Velalar College of Engineering and Technology, Chennai	11.05.2020	13.05.2020
25.	FDP on” Research Challenges and Innovations in Renewable Energy Systems”	Aarupadai Veedu Institute of Technology, Chennai	11.05.2020	16.05.2020

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26.	Projects to Patent	Ramco Institute of Technology, Rajapalayam	10.05.2020	12.05.2020
27.	Effective Use of Learning Management System	Ramco Institute of Technology, Rajapalayam	09.05.2020	09.05.2020
28.	Employability Skills for the Future	ICTACT Academy	07.05.2020	07.05.2020
29.	Electromagnetic and Thermal simulation of PMSM (IPM) motor	ALTAIR	06.05.2020	06.05.2020
30.	Machine Learning	IETE (Mumbai)	02.05.2020	02.05.2020
31.	Bentley Webinar: Transform the Electrical Grid with a Network Digital Twin	Bentley Institute	29.04.2020	29.04.2020
32.	How to write a high quality technical journal paper	IEEE	24.04.2020	24.04.2020
33.	Basics of Robotics Simulation	IEEE YESIST12-2020	26.04.2020	27.04.2020
34.	Multi-Criteria decision-making workshop	REST Society for research International (RSRI)	23.04.2020	25.04.2020
35.	AICTE Sponsored FDP “Application of Soft Computing Techniques to Power Quality and Energy Conservation Issues in Renewable Energy Systems”	PSNA college of Engineering and Technology, Dindigul	04.11.2019	17.11.2019
36.	IIT PALs Industry Visit	IITM PALs	11.10.2019	11.10.2019
37.	Hands on training on “Analog Discovery Kit”	Ramco Institute of Technology, Rajapalayam	22.06.2019	22.06.2019
38.	Knowledge Enhancement Program on “ Power System Protection Relays and Substation Automation”	KCG College of Technology, Chennai	13.05.2019	14.05.2019
39.	National Workshop on “Grid- Tied Solar Plant Design and Advances”	PSG College of Technology, Coimbatore	19.11.2018	20.11.2018
40.	ISO Awareness & Internal Auditing Training for ISO 9001:2015	ISO TUV Rheinland	21.06.2018	22.06.2018
41.	Workshop on “Writing Research Papers, Citation Analysis, Plagiarism, Getting Patent & Copyright”	Ramco Institute of Technology, Rajapalayam	29.06.2018	30.06.2018

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42.	ISO Awareness & Internal Auditing for ISO 9001:2015	Ramco Institute of Technology, Rajapalayam	21.06.2018	22.06.2018
43.	FDP on “Signals and Systems”	Ramco Institute of Technology, Rajapalayam	13.06.2018	18.06.2018
44.	Workshop on “Modeling and Closed Loop Control of Permanent Magnet Machines using MATLAB”	Mepco Schlenk Engineering College, Sivakasi	16.04.2018	17.04.2018
45.	GIAN Course on "Intelligent Electric Power Grids”	National Institute of Technology, Trichy	27.11.2017	01.12.2017
46.	Short Term Course on ICT solutions for Issues and Challenges in Smart Grid Technology	Pondicherry Engineering College, Pondicherry	28.11.2016	02.12.2016
47.	Training on Digsilent Software	Ramco Institute of Technology	20.06.2016	22.06.2016
48.	Anna University Sponsored FDP on “Control Systems”	Centre for Faculty Development Anna University	04.06.2016	10.06.2016
49.	AICTE Sponsored FDP on “Topics of Research in Electrical Engineering”	Department of EEE, Mepco Schlenk Engineering College, Sivakasi	11.05.2015	24.05.2015
50.	FDP on “ Teaching and Learning Pedagogy-Phase-II”	Ranganathan Engineering College	12.05.2014	14.05.2014
51.	ISTE-WPLP National Workshop on “Curriculum Development and Evaluation”	ISTE, Working Professionals Learning Project, Bengaluru	05.03.2014	07.03.2014
52.	Mentor Workshop on "Online Certification courses"	IIT, Madras	15.03.2014	15.03.2014
53.	Seminar “Agilent Measurement Equipments”	Agilent Technologies	17.07.2013	17.07.2013
54.	Anna University Sponsored FDP on “Special Electrical Machines”	Anna University Regional Centre, Coimbatore	10.06.2013	16.06.2013
55.	ISTE Sponsored “Ramanujam Mathematics Awareness Programme”	Ranganathan Engineering College	28.02.2013	28.02.2013
56.	NI Labview Core1 & 2 course	Ranganathan Engineering College	03.12.2012	05.12.2012
57.	National Level Workshops on “Power System Analysis using Matlab Tools”	Mahendra Engineering College	26.03.2012	26.03.2012

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58.	LV Switchgear & Reactive Power Management Techniques	PSG College of Technology	05.08.2011	06.08.2011
59.	Short Term Course "MATLAB Programming"	National Institute of Technical Teachers Training and Research, Chennai	18.10.2010	22.10.2010
60.	"Revelation 08" National Level Technical Symposium	Pondicherry Engineering College, Pondicherry	08.02.2008	08.02.2008
61.	Seminar on "Renewable Energy - Energy of the Future"	CSI Institute of Technology, Nagercoil	18.08.2005	18.08.2005

8. Short term Courses / Seminars /FDP/Workshop/Conference organized:

Sl.No	Title of the event	Organized by	Date	
			From	To
1.	Industry Lecture on "Industrial Electrical Safety"	RIT	28.11.2022	28.11.2022
2.	Workshop on Energy Conservation on Home Appliances	Unnat Bharat Abhiyan	20.12.2021	24.12.2021
3.	Student Presentation on "Electrical Energy Conservation in your Home"	RIT- ECQC	17.12.2021	17.12.2021
4.	Webinar on How to crack TCS Ninja	RIT	08.08.2021	08.08.2021
5.	Hands on Training "Office Automation"	RIT	04.06.2021	05.06.2021
6.	Online Course on "Fun with Electric Circuits"	RIT	19.05.2021	20.05.2021
7.	National Web Conference on Challenges and Innovations in Engineering and Technology 2021 (NCCIET – 2021).	RIT	19.03.2021	20.03.2021
8.	Industry Lecture "Energy Conservation Activities in Industry Premises"	RIT-ECQC	04.10.2020	04.10.2020
9.	Interdisciplinary Webinar Series – I	Ramco Institute of Technology, Rajapalayam	01.06.2020	05.06.2020

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10.	Interdisciplinary Webinar Series-II	Ramco Institute of Technology, Rajapalayam	08.06.2020	12.06.2020
11.	Sensors and Displays	Ramco Institute of Technology, Rajapalayam	25.05.2020	26.05.2020
12.	Fun with Electric Circuits	Ramco Institute of Technology, Rajapalayam	11.05.2020	13.05.2020
13.	Student Solar Ambassador Workshop 2019	IIT Bombay Venue: Ramco Institute of Technology	02.10.2019	02.10.2019
14.	One day Workshop on “Arduino Programming and Hardware” in Techyuga 2019	Ramco Institute of Technology, Rajapalayam	31.08.2019	31.08.2019
15.	Energy Conservation Awareness Program	RIT-ECQC	29.08.2019	29.08.2019
16.	Guest Lecture on “Energy Conservation”	Ramco Institute of Technology, Rajapalayam	02.03.2019	02.03.2019
17.	Intelligent Electric Power Grid	Ramco Institute of Technology, Rajapalayam	28.12.2018	29.12.2018

9. Online Courses

Sl.No	Course title	University	Date
1.	Introduction to Programming with MATLAB	Vanderbilt University	06.09.2021
2.	Digital Teaching Techniques	ICT Academy & Atos Syntel	30.09.2020
3.	Operations Research: an Active Learning Approach	The Hong Kong Polytechnic University	03.09.2020
4.	Transfer Functions and the Laplace Transform	Massachusetts Institute of Technology, USA	01.09.2020
5.	Programming for Everybody (Getting Started with Python)	University of Michigan	14.10.2020
6.	Electric Cars : Introduction	Delft University, Netherland	26.07.2020
7.	Introduction to Electronics	Georgia Institute of Technology	12.07.2020
8.	Hands-on training on Solar Study Lamp Assembly	IIT Bombay	01.01.2020
9.	Learn to Design your own Solar Home System	Energy Swaraj Foundation	16.05.2020
10.	C Tutorial Course	Sololearn.com	22.04.2020
11.	C++ Tutorial Course	Sololearn.com	22.04.2020
12.	Electric Power Systems	The State University of New York	10.06.2020

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13.	Vector Calculus for Engineers	The Hong Kong University of Technology	10.06.2020
14.	Introduction to Differential Equations	Massachusetts Institute of Technology, USA	26.12.2019
15.	Hands-on training on Solar Study Lamp Assembly	IIT Bombay	02.10.2019
16.	Calculus 1C: Coordinate Systems & Infinite Series	Massachusetts Institute of Technology, USA	12.05.2019
17.	Differential equations: Fourier Series and Partial Differential Equations	Massachusetts Institute of Technology, USA	21.12.2018
18.	MATLAB Onramp	MathWorks Training Services	22.11.2018
19.	Calculus 1B: Integration	Massachusetts Institute of Technology, USA	09.03.2018
20.	Calculus 1A: Differentiation	Massachusetts Institute of Technology, USA	10.09.2017
21.	Solar Energy	Delft University, Netherland	22.05.2017
22.	Circuits and Electronics 1: Basic Circuit Analysis	Massachusetts Institute of Technology, USA	23.12.2016

10. Patents filed/awarded

Sl. No.	Title	Application No.	Filed Date	Status	Inventor(s)
1.	Method for Treating Waste Water in Dye Industry using Natural Filter	202041056624	28.12.2020	Under Examination	Ms.M.Kirubah Ms.K.Sivapriya Ms.G.Yashaswini Mr.E.Thangam Mr.N.Ganesh Dr.K.Karthikeyan Dr.S.Kannan
2.	An Apparatus for Monitoring and Dispensing Medicine to Elderly Patients	202141004468	02.02.2021	FER Report Received	Ms. S. Jeya Shiny Suhel, Ms. M. Ramya, Ms. A. G. Vinataa, Ms.S.Sharmila Kumari, Mrs G.Sivapriya Mr.E.Thangam Dr.S.Kannan

11. Membership in Professional societies

Name of the Society	Membership No.	Type of Membership
Indian Society for Technical Education	LM93073	Life Time Member

12. Awards, Recognition & Achievements

Achievements:

- Produced 100% result for the course EE6702 Protection and Switchgear in the academic year 2016-2017 Odd Semester.
- Produced 100% result for the course EE6504 Electrical Machines- II in the academic year 2016-2017 Odd Semester.
- Received best class adviser for the class 2018 – 2022 in the academic year 2019 – 2020

Recognition:

- Received and Certified “Digital Teacher Badge” by ICTACT on 30.09.2020
- Appreciation received from the Vice-principal of RIT for the release of guidebook on “Electrical Energy Conservation in your Home”

Any others (Board of studies/Governing Council/Staff Selection/ Reviewer/other duties)

Reviewer:

- Reviewer As an internal reviewer reviewed the papers for International Conference on Smart Technologies and Applications (ICSTA – 2022) on 11.03.2022
- Reviewer National Web Conference on Challenges and Innovations in Engineering and Technology 2021 (NCCIET – 2021) on 19.03.2021
- Reviewer National Level Paper Presentation Contest IET'17 by Institution of Engineering and Technology at Ramco Insitute of Technology, Rajapalayam on 23.03.2017

Other duties:

Sl.No.	Position held	Period	Responsibility
1.	Environment and Waste Management Quality Circle	01.09.2021 to till date	Member
2.	Energy Conservation Quality Circle	28.02.2018 to till date	Coordinator
3.	Boys Hostel Residential Assistant Warden	10.10.2020 to till date	Resident Assistant Warden
4.	PAQIC member – CSE	01.06.2019	PAQIC Member
5.	ISO Internal Auditor	01.06.2018	Certified Internal Auditor
6.	Member – ERP Development	05.05.2020	ERP Development
7.	Eco Club	17.04.2021 to	Internal Auditor

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	Green Audit Member	till date	
8.	Discipline Committee	01.09.2021 to till date	Member Representation from Boys Hostel