

# SYED AMMAL ENGINEERING COLLEGE



( Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai )  
An ISO 9001:2015 Certified Institution | ( NBA Accredited UG Courses : CSE, EEE & MECH )  
Dr. E.M. Abdullah Campus, Ramanathapuram - 623 502, Tamilnadu.



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## Department of Electrical and Electronics Engineering

The Department of Electrical and Electronics Engineering was established in the year 1998. The department offers 4 years UG programme in B.E Electrical and Electronics Engineering and 2 years PG programme in M.E Embedded System Technologies. It has sophisticated infrastructure, excellent Machines, Embedded and Electronics laboratories, and highly qualified, motivated and experienced Faculty members to enhance the student's knowledge in their respective field.

### Department Vision and Mission:

#### VISION

To be a centre of excellence in teaching and research in Electrical and Electronics Engineering, to produce highly skilled, excellent engineers who can serve the society.

#### MISSION

- Provide exemplary learning environment and quality professional education.
- Empower rural students with skills and knowledge for innovation through curricular, co-curricular and extracurricular activities.
- Providing ample opportunities to learn moral and ethical values to serve the society and nation.

#### Introduction:

Our departmental newsletter "News Letter of EEE ' 2022 - 23" facilitates our students and faculty members to publish their achievements and efforts. It provides a motivation to the juniors and classmates to "see and follow" the steps on the success path taken by their seniors. This also gives a reason to be proud of their classmates, seniors and faculty members.

"News Letter of EEE' 2022- 23" reflects the success stories of our students and the faculty members. It is circulated to all students and faculty members containing information including placements, sport events, paper presentations, conferences etc.

### Department Activities:

The Department of Electrical and Electronics Engineering organized an Alumni Technical Convention on 08.04.23. The Resource Persons were Mrs. Umayal Rajeshkumar, Consultant HCL Technologies, Chennai, Mohamed Lebbai, Service Engineer, TK Elevator Saudi Arabia Ltd., Saudi Arabia, M. Thisaiveerapandian, Electrical Maintenance Engineer, Integrated Service Company, Kuwait and Mr. K. Karthik, PROMHO Engineering Solution, Chennai.



The Department of Electrical and Electronics Engineering organized ISTE Mini project competition on 28.04.2023. Dr. A. Jeyasaravanan, Assistant Engineer/TNEB was the resource person of this event.



The Department of EEE organized a one day Technical Talk on “Industrial Robot Automation System and Industry 4.0” on 28.10.22. Er. Nandha Gopal, Assistant Manager, DiFACTO Training Academy, Bangalore was the resource person.


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 Dr. E.M. Abdullath Campus, Ramanathapuram - 623 502

Department of Electrical and Electronics Engineering

**Date: 28.10.2022**      **Domain Wise Classes Technical Talk on**  
**Resource Person**      **INDUSTRIAL ROBOT AUTOMATION SYSTEMS & INDUSTRY 4.0**



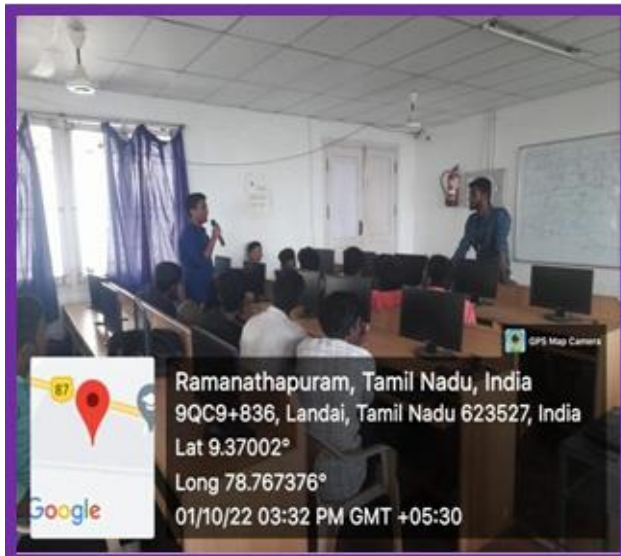
Alumni (2004-2008)



**G.NANDHA GOPAL**  
 Assistant Manager  
 DiFACTO Training Academy  
 Bengaluru.



The Department of EEE organized a one-day Technical Talk on “Working Principles of Nuclear Reactor” on 01.10.2022. Mr. M. Thameemul Ansari, AP/Physics was the Resource person.



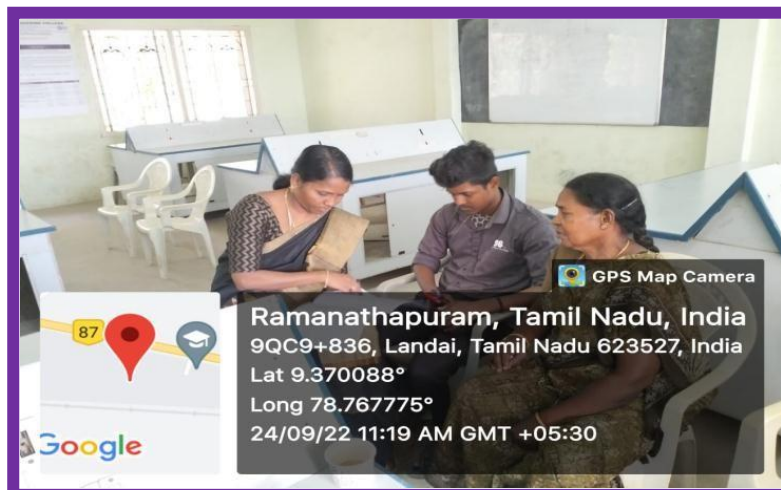


The Department of EEE organized a one-day Technical Talk on “Concept of Optoelectronics” on 12.11.2022. Mr. M. Thameemul Ansari, AP/Physics was the Resource person.



### Parent Teachers Meeting

To redress the grievances of the parents and students, every year, we conduct parents and teachers association meeting. Parents Teachers Meeting for the academic year 2022-23 was conducted on 24.09.22. Parents of II-, III- and IV-year students participated in this meeting. The suggestions and views expressed by the parents will be brought to the knowledge of Principal and Correspondent for immediate action. This will make the relationship between students, their parents and college becomes cordial and cooperative.



### Paper Presentation/ Workshop/ Seminar and Symposium attended by the Students:

The staff members and students of Electrical and Electronics Engineering underwent the field visit to acquire the knowledge about the Erection of Electric Train Substation at Ramanathapuram Railway Station on 11.02.2023.



### Students Achievements in Technical and Non-Technical Competitions Conducted by other Colleges

S.No	Name of the Student	Year and Department	Programme	Date	Venue
1.	M. Mohamed Anwar	III EEE	Connection (I Prize)	19.10.2022	University College of Engineering, Ramanathapuram
2.	M. Hariharan	III EEE	Photography (II Prize)	19.10.2022	University College of Engineering, Ramanathapuram
3.	V. Manoprakash	III EEE	Connection (I Prize)	19.10.2022	University College of Engineering, Ramanathapuram

**Faculty Activities:****Paper Published**

S.No	Name of the Faculty	Designation and Department	Title of the Paper	Name of the Journal	Vol & No	DOI
1.	Dr. R. Nagarajan	Professor & Head / EEE	Improvement of Robustness in Grid Connected Solar System Using Artificial Neural Network Based Sliding Mode Controller	Neuro Quantology	Vol 20, Issue 7	10.14704/nq.2022.20.7.NQ33050, IF –1.58.
2.	Dr. S. Selvaperumal	Professor & Head / EEE	The Iot-Based Real-Time Image Processing for Animal Recognition and Classification Using Deep Convolutional Neural Network (DCNN)	Microprocessors and Microsystems	Vol 95	10.1016/j.micpro.2022.104693
3.	Dr.S. Selvaperumal, Dr. G. S. Naganathan Dr. R. Nagarajan Mr. P. Nedumal Pugazhenth	Electrical & Electronics Engg.	Electric Bike Range Estimation using Fuzzy Logic Controller	Journal of Electronics and Informatics	Volume 4, Issue 4,	10.36548/jei.2022.4.002 (Crossref)
4.	Dr. S. Selvaperumal	Professor & Head / EEE	The Iot-Based Real-Time Image Processing for Animal Recognition and Classification Using Deep Convolutional NeuralNetwork (DCNN)	Microprocessors and Microsystems	Vol 95, pp.104693	10.1016/j.micpro.2022.104693

### Project Proposal

- Dr.S.Selvaperumal, Professor/EEE submitted and presented a project proposal under Unnat Bharat Abhiyan-Government of India.
- Dr.S.Selvaperumal, Professor/EEE submitted and presented a project proposal entitled on“A LOW POWER INVERTER FOR THE STREET VENDOR” under Innovation Voucher Programme, Entrepreneurship Development and Innovation Institute, Department of MSME-Government of TamilNadu.

### Book Published

S.No	Name of the Faculty	Designation and Department	Name of the Book	Publication
1.	Dr.R.Nagarajan	Professor & Head/EEE	Certain Investigations on Moving Vehicle Detection and Classification	LAMBERT Academic
2.	Dr. R. Nagarajan	Professor & Head / EEE	Design of Buildings with Improved Energy Efficiency and Day lighting	LAMBERT Academic

### FDP/ Workshops/ Webinars Attended

S.No	Name of the Faculty	Designation and Department	Name of the FDP/ Workshop/ Webinars Attended	Duration	Organizing Institute
1.	Dr. G.S.Naganathan	Associate Professor /EEE	Emerging Trends, Challenges and Opportunities in Wireless Charging Electric Vehicle	20.02.2023-25.02.2023	SRM Institute of Science and Technology, Kattankulathur.
2.	Dr.G.S.Naganathan	Associate Professor/ EEE	Deign of Solar PVsystem for Domestic Load	13.02.2023-17.02.2023	Saranathan Engineering College, Thiruchirappalli.

3.	Dr.S.Muthulakshmi	Associate Professor/ EEE	Electrical Vehicle Design	20.06.22 to 19.7.22	Pantech E-learning Pvt Ltd, Chennai
4.	Dr.S.Aiswariya	Associate Professor /EEE	Electrical Vehicle Design	20.06.22 to 19.7.22	Pantech E-learning Pvt Ltd, Chennai
5.	Mr. T. Arun Prasath	Assistant Professor	A National Level Mega Events on idea and STARTUPS	04.08.22-05.08.22	Syed Ammal Innovation and Incubation Council

**Placement and Training Cell**

**Name of the Company - SL LUMAX**





S.NO.	Name of the Candidate	Enrollment Number	Employee Name	Appointment Order Number
1	Deepan M	19EE001	Blueoshan: Hubspot's Marketing	Blueoshan / 2023/003
2	Durairaj M	19EE002	Just Connect Electricals Pvt Ltd, Chennai.	PHA/2023-3/ GAT/ SAEC RMD-01
3	Madhumitha S	19EE004	SL LUMAX	PHA/2023-3/ GAT/ SAEC RMD-02
4	Mohamed Ibrahim Gani J	19EE005	Blueoshan: Hubspot's Marketing	Blueoshan / 2023/005
5	Mohamed Ismail Z	19EE006	Just Connect Electricals Pvt Ltd, Chennai.	PHA/2023-3/ GAT/ SAEC RMD-03
6	Rahul T	19EE007	Blueoshan: Hubspot's Marketing	Blueoshan / 2023/008
7	Rahul V	19EE008	Just Connect Electricals Pvt Ltd, Chennai.	PHA/2023-3/ GAT/ SAEC RMD-04
8	Sanjaykar M	19EE009	Just Connect Electricals Pvt Ltd, Chennai.	PHA/2023-3/ GAT/ SAEC RMD-05
9	ShibiVarshit P	19EE010	SL LUMAX	SLL/2023/AO- 01
10	Sri Pragatheeswari S	19EE011	SL LUMAX	SLL/2023/AO- 05
11	Suji M	19EE012	SL LUMAX	SLL/2023/AO- 04
12	Jeyavel I	19EE013	Smart Ladders Marketing Solutions (Opc) Pvt Ltd	RES-01-Int-2023
13	Sivakumar K	19EE014	Just Connect Electricals Pvt Ltd, Chennai.	PHA/2023-3/ GAT/ SAEC RMD-06

**NPTEL Training attended by Teaching Staff:**

Sl.No.	Name of the Faculty	Designation & Department	Title of the Program	Duration of Program	Institute
1.	Mr. P. Nedumal Pugazhenth	ASP / EEE	Basic Electric Circuits	12 Weeks	IIT Kanpur
2.	Mr. P. Nedumal Pugazhenth	ASP / EEE	Linear Systems Theory	12 Weeks	IIT Madras
3.	Mr. P. Nedumal Pugazhenth	ASP / EEE	Patent Drafting for Beginners	4 Weeks	IIT Madras
4.	Mr. P. Nedumal Pugazhenth	ASP / EEE	Innovation by Design	4 Weeks	IIT Bombay
5.	Mr. P. Nedumal Pugazhenth	ASP / EEE	(TNSDC) Industry 4.0	2 days	Thiagarajar College of Engineering, Madurai-Skill Lync
6.	Dr. G. S. Naganathan	ASP / EEE	Advanced Power Electronics and Control	8 Weeks	IIT, Roorkee

**Awards/ Certificate of Appreciation Received**

S. No.	Name of the Faculty	Designation and Department	Name of the Award/Certificate of Appreciation	Institute	Year
1	Mr. P. Nedumal Pugazhenth	ASP/ EEE	NPTEL BELIEVERS	NPTEL (SWAYAM)	Jul-Dec 2022
2	Mr. P. Nedumal Pugazhenth	ASP/ EEE	NPTEL ENTHUSIASTS	NPTEL (SWAYAM)	Jul-Dec 2022
3	Mr. P. Nedumal Pugazhenth	ASP/ EEE	NPTEL DOMAIN SCHOLARS (Control and Instrumentation)	NPTEL (SWAYAM)	Jul-Dec 2022

**NPTEL Training attended by Students:**

S.No.	Name of the Student	Year and Department	NPTEL Programme	Date	Grade & Rank
1.	K.Suhashini	II EEE	Basic Electrical Circuits	Jul – Oct 2022	54%
2.	M. Mohamed Anwar	II EEE	Basic Electrical Circuits	Jul – Oct 2022	52%

**Number of Collaborative activities for research, Faculty exchange during the year**

S.No.	Name of the faculty	Designation and Department	Resource Person/ Invited Lectures/ Chair Person	Date	Name of the Program	Organised by
1.	Mr. P. Nedumal Pugazhenth	ASP/ EEE	Invited Lecture	21.10.22	Educational Transformation 1.0 to4.0	Department of Management Studies, SAEC, Ramanathapuram
2.	Dr.R.Nagarajan	ASP/ EEE	Invited Lecture	01.10.22	Profile Building	Department of Management Studies, SAEC, Ramanathapuram
3.	Dr.R.Nagarajan	ASP/ EEE	Invited Lecture	20.10.22	Scope for MBA in Corporates	Department of Management Studies, SAEC, Ramanathapuram

Dr.S.Selvaperumal, Professor & Head/ EEE has convened the Doctoral Committee Meetings for his scholars for the purpose of Confirmation of Provisional Registration, Thesis Resubmission approval and the details are given below.

S. No.	Date of DC Meeting	Details of Scholar	Details of Doctoral Committee members Details	Purpose of Meeting
1	26.12.2022	Mr. Arun Prasath T,(Reg.No.20123791167), PartTime Ph.D. Research Scholar, Assistant Professor/EEE, SyedAmmal Engineering College, Ramanathapuram-623502	Dr. S. Muralidharan SeniorProfessor, Department of Electrical and Electronics Engineering, MEPCO Schlenk Engineering College, Sivakasi - 626 005  Dr. A.Amudha Professor, Department of Electrical and Electronics Engineering, Karpagam University, Coimbatore -641021	Confirmation of Provisional Registration
2	26.12.2022	Mr.Ramamoorthy M.L, (Reg.No.21143791208, Part Time Ph.D. Research Scholar, Assistant Professor (SeniorGrade) / EEE, Alagappa Chettiar Government College of Engineering &Technology, Karaikudi-630004	Dr. S. Muralidharan Senior Professor, Department of Electrical and Electronics Engineering, MEPCO Schlenk Engineering College, Sivakasi - 626 005  Dr. A.Amudha Professor, Department of Electrical and Electronics Engineering, Karpagam University, Coimbatore -641021	Confirmation of Provisional Registration
3	29.12.2022	Mr. P. Nedumal Pugazhenth (Reg.No.1314389740, Part Time Ph.D. Research Scholar), Associate Professor, Syed Ammal Engineering College, Ramanathapuram 623502	Dr.B.V.Manikandan SeniorProfessor, Department of EEE, Mepco Schlenk Engineering College, Sivakasi-626005  Dr. S.Subramanian Professor, Department of EEE, Annamalai University, Chidambaram-608002	Thesis Resubmission Approval



4	19.01.2023	Mr. Arundesai. M. Reg.No.23143791124 (Anna University, Part-Time Ph.D.Scholar)	Dr. R.Nagarajan Professor & Head / EEE, Syed Ammal Engineering College, Ramanathapuram-623502  Dr. A.Amudha Professor, Department of Electrical and Electronics Engineering, Karpagam University, Coimbatore -641021	
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Dr.S.Selvaperumal has acted as a Doctoral Committee Member for the following research scholars and the details are given below.

S. No.	Date of DC Meeting	Details of Scholar	Details of Supervisor	Purpose of Meeting
1	18.11.2022	Mr. T. Srikanth Reg.No.1612379210 (Anna University, Full Time Ph.D.Scholar)	Dr. S. Chitra Selvi Assistant Professor/EEE, University College of Engineering, Thirukkuvalai, Nagapattinam-610204	Thesis Correction and Expert Panel Submission
2	22.11.2022	Ms. T. Surya Reg.No.1622369213 (Anna University, Full Time Ph.D.Scholar)	Dr. S. Chitra Selvi Assistant Professor/EEE, University College of Engineering, Thirukkuvalai, Nagapattinam-610204	Synopsis Approval
3	05.12.2022	Mr. G .Pandiaraj Reg.No.1514389778 (Anna University, Part-Time Ph.D.Scholar)	Dr. S. Muralidharan, Professor, Department EEE, Mepco Schlenk Engineering College, Sivakasi, Virudhunagar Dist – 626005.	Synopsis Approval
4	21.12.2022	Mr. A. Jainulafdeen Reg.No.23183791133 (Anna University, Part-Time Ph.D.Scholar)	Dr. G. Prabhakar Assistant Professor, Department of Electronics and Communication Engineering, Thiagarajar College of Engineering, Madurai-625015.	Course Work

Dr.R.Nagarajan, Professor/ EEE has convened the Doctoral Committee Meetings for his scholars for the purpose of Confirmation of Provisional Registration, Thesis Resubmission approval and the details are given below.

S. No.	Date of DC Meeting	Details of Scholar	Details of Doctoral Committee members Details	Purpose of Meeting
1	29.12.2022	Mr. Jenin Prabhu. R, (Reg.No.20143791122), Part Time Ph.D. Research Scholar, Assistant Professor/EEE, Vel Tech Engineering College, Avadi, Chennai	Dr.J.Bastin Solai Nazaran, Professor, Department of Electrical and Electronics Engineering, Sethu Institute of Technology, Kariapatti - 626 115  Dr.A.Amudha Professor, Department of Electrical and Electronics Engineering, Karpagam Academy of Higher Education, Coimbatore -641021	Confirmation of Provisional Registration

Dr.R.Nagarajan, Professor/ EEE has acted as a Doctoral Committee Member for the following research scholars and the details are given below.

S. No.	Date of DC Meeting	Scholar Details	Supervisor Details	Purpose of Meeting
1	19.01.2023	Mr. Arundesai. M. Reg.No.23143791124 (Anna University, Part-Time Ph.D.Scholar)	Dr. S. Selvaperumal Professor & Head / EEE, Syed Ammal Engineering College, Ramanathapuram-623502	Course Work Approval

#### Number of Teachers Recognized as Research Guides at Present

Sr.No	Number of Fulltime Teachers with PhD	Year of Obtaining PhD	Is the teacher still serving the institution If not last year of the Faculty Service to the Institution	Whether Recognised as research Guide for PhD	Year of Recognition as research Guide
1	Dr.R.Nagarajan	2016	YES	YES	2018
2	Dr.M.SenthilKumar	2017	YES	YES	2017
3	Dr.S.Selvaperumal	2013	NO & Feb 2013	YES	2013

#### Conference Paper publications of Faculty members

SLNO	Author	Designation	Title of the Paper	Name of the Conference
1.	Dr. G.S.Naganathan	Associate Professor/EEE	Power Supply Management for Hybrid Electric Vehicle Using Fuzzy Logic Controller	National Conference on Power Electronics and Drives 2022 (NCPED'22)
2.	Dr. R. Nagarajan Dr. S. Selvaperumal Dr. G.S.N aganthan Mr P. Nedumal Pugazhenth	Electrical & Electronics Engg.	Monitoring System for the Detection of Milk Adulteration	National Conference on Artificial Intelligence and Machine Learning Techniques for Electronics, Control & Automation (NCAECA 2022)

**Patents:****Department Advisory Committee Meeting with the HOD and Faculty Members and the Invited Experts**

S. No.	Name of the Applicant	Designation and Department	Title	Date of filing	Application Number	Present Status
1	Dr.S.Selvaperumal	Professor & Head / EEE	Solar Operable Chemical Dispensing Device for Agricultural Field	21.11.2022	37445 1-001	Under Processing

The meeting of HOD, Faculty members of EEE Department, Academic Experts, Alumni, Parents and invitees from Industries was held on 23.07.2022 at 10.00 A.M at Board Room to draft the forth coming academic activities of the Department.