

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.



Mobile : 94873 04000, 84893 04000, 87548 88877 E-mail : office@syedengg.ac.in, saec@syedengg.ac.in Web: www.syedengg.ac.in

Department of Electrical and Electronics Engineering

News Letter – 2020 - 21

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 labs, 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 ' 2020 - 21” 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' 2020 - 21” 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:

1. The Departments of EEE organized six days online STTP named as “**Digital Controllers for Power Electronics Applications**” Phase - I on 13-07-2020 to 18-07-2020.
2. The Departments of EEE organized six days online STTP named as “**Digital Controllers for Power Electronics Applications**” Phase - II on 03-08-2020 to 08-08-2020.
3. The Departments of EEE organized six days online STTP named as “**Digital Controllers for Power Electronics Applications**” Phase - III on 07-09-2020 to 12-09-2020.

Parent Teachers Meeting

To redress the grievances of the parents and students, every year, we conduct parents and teachers Association Meeting. This academic year also large number of parents attended these meetings through online mode and expressed their views and suggestions. 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:

Sl No	Date	Name of the Participant	Title of the Paper Published	Name of the Conference	Venue
1	11 th – 12 th Sept 2020	Mohamed Sahal A, Karthik K IV-EEE	Development of Aqua Battery Using Water and Table Salt	ICRAI-2020	Syed Ammal Engineering College, Ramanathapuram
2	11 th – 12 th Sept 2020	Balaji K G, Lingesh Kumar S, Anserdeen S IV-EEE	Maximum Power Utilization of PV Power Using Dual Axis Tracking System with Fuzzy Controller	ICRAI-2020	Syed Ammal Engineering College, Ramanathapuram
3	11 th – 12 th Sept 2020	Mohamed Riyasudeen D, Karthikeyan M, Mohamed Sayeed Anwar J IV-EEE	Design and Development of Automatic Change Over Using PLC	ICRAI-2020	Syed Ammal Engineering College, Ramanathapuram
4	11 th – 12 th Sept 2020	Parthiban Vivek M, Rajarajan A IV-EEE	Cyber Security Analysis of Substation Automation System	ICRAI-2020	Syed Ammal Engineering College, Ramanathapuram

Faculty Activities:**Training Conducted to Teaching Staff:**

Sl.No.	Duration of Program	Department	Name of the Program	Title of the Program	Sponsored Agency
1.	23 – 28, Nov 2020	All departments	STTP	Six Days Short Term Training Programme on “Potential Benefits of RFID in Industrial, Medical and Domestic Sectors” through online mode	AICTE
2.	24 – 28, August 2020	All departments	FDP	AICTE Training And Learning (ATAL) Academy Online FDP on " Energy Engineering" through online mode	AICTE

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

Sl. No.	Title of the collaborative activity	Name of the collaborating agency with contact details	Name of the participant	Duration	Nature of the activity
1	Resource person for AICTE sponsored 2 weeks online FDP on Formal Modeling Control and Real Time Implementation of Cyber Physical Systems	VSB Engineering College, Karur	P.Nedumal Pugazhenth	1 day, 19.10.2020	Delivering lecture on Introduction to Modeling and control of Cyber physical systems and simulation using MATLAB part-1
2	Resource person for AICTE sponsored 2 weeks online FDP on Formal Modeling Control and Real Time Implementation of Cyber Physical Systems	VSB Engineering College, Karur	P.Nedumal Pugazhenth	1 day, 20.10.2020	Delivering lecture on Introduction to Modeling and control of Cyber physical systems and simulation using MATLAB part-2

3	Resource person for AICTE sponsored 2 weeks online FDP on Formal Modeling Control and Real Time Implementation of Cyber Physical Systems	VSB Engineering College, Karur	Dr S. Selvaperumal	1 day, 20.10.2020	An overview of challenges in smart grid in a cyber physical system perspective
4	Resource person for AICTE sponsored 2 weeks online FDP on Formal Modeling Control and Real Time Implementation of Cyber Physical Systems	VSB Engineering College, Karur	Dr R Nagarajan	1 day, 23.10.2020	Delivering lecture on Wireless Industrial Automation Network
5	Resource person for AICTE sponsored 2 weeks online FDP on Formal Modeling Control and Real Time Implementation of Cyber Physical Systems	VSB Engineering College, Karur	Dr G S Naganathan	1 day, 30.10.2020	Delivering lecture on Online Voltage Stability Assesment in Restructured Power system using CPS
6	Resource person for AICTE sponsored 1 week STTP on Modern Optimization Tools in Engineering Field -I	SRM Valliammai Engineering college, Kattankulathur	Dr S. Selvaperumal	1 day, 09.10.2020	Fuzzy Optimization
7	Resource Person for AICTE sponsored online STTP on Renewable Energy Development in Deregulated Power Market Future Scenario	Jayamuki Insititute of Technological Sciences , Varangal	Dr S. Selvaperumal	1 day, 26.08.2020	Self-Healing Grid and integration of RES with Grid

Journal publications of Faculty members

SL NO	Title of the paper	Author	Name of the journal	ISSN Number	Comment as SCI, Scopus indexed
1	Investigation of different MPPT techniques based on fuzzy logic controller for multilevel DC link	Dr S Selvaperumal	Soft Computing	https://doi.org/10.1007/s00500-020-05370-0 Electronic ISSN 1433-7479 Print ISSN 1432-7643	SCI journal

	inverter to solve the partial shading				
2	EANFIS-based Maximum Power Point Tracking for Standalone PV System	Dr S Selvaperumal	IETE Journal of Research	https://doi.org/10.1080/03772063.2020.1788425 ISSN (printed): 0377-2063, ISSN (electronic): 0974-780X.	SCI journal

Conference Paper publications of Faculty members

SL NO	Title of the Paper	Author	Date	Name of the Conference
1	Design and Implementation of Automatic Change Over Using PLC	M. Paul Jeyaraj	11 & 12, Sept 2020	INTERNATIONAL CONFERENCE ON NANO ROBOTICS AND ARTIFICIAL INTELLIGENCE FOR ENGINEERING APPLICATIONS (ICRAI2020)
2	Maximum power utilization of pv power using dual axis Tracking system with fuzzy controller	G. Abinaya	11 & 12, Sept 2020	INTERNATIONAL CONFERENCE ON NANO ROBOTICS AND ARTIFICIAL INTELLIGENCE FOR ENGINEERING APPLICATIONS (ICRAI2020)
3	Development of Aqua Battery Using Water and Table Salt	Dr. M. Senthil Kumar	11 & 12, Sept 2020	INTERNATIONAL CONFERENCE ON NANO ROBOTICS AND ARTIFICIAL INTELLIGENCE FOR ENGINEERING APPLICATIONS (ICRAI2020)
4	Design and implementation of smart agriculture system using Solar power	Dr. S. Selvaperumal, T.Arun Prasath*, M.Paul Jeyaraj*	11 & 12, Sept 2020	INTERNATIONAL CONFERENCE ON NANO ROBOTICS AND ARTIFICIAL INTELLIGENCE FOR ENGINEERING APPLICATIONS (ICRAI2020)
5	Adaptive aggregation based a wireless network solution for Industrial automation	Dr. M. Senthilkumar, M.Paul Jeyaraj*	11 & 12, Sept 2020	INTERNATIONAL CONFERENCE ON NANO ROBOTICS AND ARTIFICIAL INTELLIGENCE FOR ENGINEERING APPLICATIONS (ICRAI2020)
6	Secure and scalable scheme watermarking to medical images using intelligent controller	Dr. S. Muthulakshmi, Dr.S.Aiswariya*	11 & 12, Sept 2020	INTERNATIONAL CONFERENCE ON NANO ROBOTICS AND ARTIFICIAL INTELLIGENCE FOR ENGINEERING APPLICATIONS (ICRAI2020)

7	Privacy online ride hailing services based on transform Euclidean distance	Dr. R. Nagarajan, M.Pau Jeyaraj*, G. Abinaya*	11 & 12, Sept 2020	INTERNATIONAL CONFERENCE ON NANO ROBOTICS AND ARTIFICIAL INTELLIGENCE FOR ENGINEERING APPLICATIONS (ICRAI2020)
8	Identification and classification of leaf diseases using Inspired bio algorithm	P. Nedumal Pugazhenthil, T.Arun Prasath*	11 & 12, Sept 2020	INTERNATIONAL CONFERENCE ON NANO ROBOTICS AND ARTIFICIAL INTELLIGENCE FOR ENGINEERING APPLICATIONS (ICRAI2020)
9	An effective method of ground water supplies intelligent Controller based real time management	Dr. G. S. Naganathan, P. Gnanaskanda Parthiban*	11 & 12, Sept 2020	INTERNATIONAL CONFERENCE ON NANO ROBOTICS AND ARTIFICIAL INTELLIGENCE FOR ENGINEERING APPLICATIONS (ICRAI2020)
10	Smart parking system with real time scheduling using Intelligent controller	Dr. S. Selvaperumal, T.Arun Prasath*	11 & 12, Sept 2020	INTERNATIONAL CONFERENCE ON NANO ROBOTICS AND ARTIFICIAL INTELLIGENCE FOR ENGINEERING APPLICATIONS (ICRAI2020)

Patent Details:

S.No	Date	Applicant Name	CBR.No/ Application No.	Patent Status with Date	Title of Invention
1	03.03.2017	1 .Dr.S.Selvaperumal 2 .M.S.SivagamaSundari	8317/201741007514	Published on 16/08/2019 Page No.37098	Harmonic Elimination In Cascaded H-Bridge Multilevel Inverter Using SHE PWM
2.	06.09.2019	1 .Dr. S. Selvaperumal 2 .Dr. S. Saravana Sundaram	28863/201941035891	Filed on 06.09.2019 Published on 18/10/2019 42/2019 Page No.48773	A Novel PSO based automated optimally controlled watering system for a Coriander plant field using Wireless Sensor Network
3.	06.09.2019	1 .Dr. S. Selvaperumal 2 .Dr. S. Saravana	28863/201941035892	Filed on 06.09.2019	Wireless sensor network based data

		Sundaram		Published on 18/10/2019 42/2019 Page No.48774	logging and ANN based Maximum Power Point Tracking for a large Photo voltaic farm
4.	15.11.2019	1 .Dr. S. Selvaperumal 2 .Dr. M.S. Sivagama 3 .Dr. G. Prabhakar	37527/201941046537	Filed on 15.11.2019 Published on 6/12/2019 49/2019 Page No.57289	Performance Improvement of Induction Generator in Grid Integrated Wind Energy Conversion System
5.	15.11.2019	1 .Dr.G.Prabhakar 2 .Dr.S.Selvaperumal 3 .Dr.V.Nirmal Kannan	37530/201941046540	Filed on 15.11.2019 Published on 6/12/2019 49/2019 Page No.57291	G-Glass Smart Manufacturing Unit
6.	15.11.2019	1 .Dr. S. Selvaperumal 2 .Dr. M.S. Sivagama 3 .Dr. C. Christofer Asir Rajan	37528/201941046538	Filed on 15.11.2019 Published on 6/12/2019 49/2019 Page No.57290	Coal Flow Regulation Using Model Based Controllers in Thermal Power Plant
7.	15.11.2019	1 .Dr.G.Prabhakar 2 .Dr.S.Selvaperumal 3 .Dr.V.Nirmal Kannan	37535/201941046543	Filed on 15.11.2019 Published on 6/12/2019 49/2019 Page No.57293	G Glass for Electrical Power Generation and Electrical Energy Storage
8.	06/03/2020	1 .Dr.S.Selvaperumal 2 .Dr. B. Ramasubramanian	202041009634	Filed on 06/03/2020 Published on 24/04/2020 17/2020 Page No. 17528	Smart Approach For The Detection Of Diabetic Retinopathy And Retinopathy Of Prematurity Using The Retinal Images
9.	06/03/2020	1 .Dr.S.Ganesh 2 .Dr. R. Kanimozhi 3 .Dr.B.Ramasubramanian	202041009636	Filed on 06/03/2020 Published on	Power Scheduling Of Micro-Grid In Radial Distribution

		4 . Ms. T. Mathumathi 5 .Dr.S.Selvaperumal		24/04/2020 17/2020 Page No.17529	System
10.	06/03/2020	1 .Dr.S.Selvaperumal 2 .Dr.M.S.SivagamaSundari 3 .Dr.M.Germin Nisha	202041009638	Filed on 06/03/2020 Published on 24/04/2020 17/2020 Page No. 17531	Steady State Performance Analysis Of Self Excited Slip Ring Induction Generator
11.	06/03/2020	1 .Dr.S.Selvaperumal 2 .Dr.M.S.SivagamaSundari	202041009641	Filed on 06/03/2020 Published on 24/04/2020 17/2020 Page No. 17532	IT For Relay Protection (Internet Based)
12.	29/05/2020	1 .Dr.C.Christober Asir Rajan 2 .A.Manoranjan 3 .Dr.S.Selvaperumal	202041022679	Filed on 29/05/2020 Published on 12/06/2020 24/2020 Page No.21949	Thirty-One Levels Asymmetric Cascaded H- Bridge Multilevel Inverter With Reduced Number of Switches

Number of Teachers Recognized as Research Guides at Present

Sr. No	Number of Full time 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.Senthil Kumar	2017	YES	YES	2017
3	Dr.S.Selvaperumal	2013	YES	YES	2013

Minutes of the Advisory Committee Meeting with the HOD and Faculty Members and the Invited Experts

The meeting of HOD, Faculty members of EEE Department, Academic Experts, alumni, Parents and invitees from industries was held on 23.07.2020 at 10.00 A.M through Google Meet to draft the forthcoming academic activities of the Department.

The following members were present.

Chair: Dr. S. Selvaperumal, HOD/EEE, Syed Ammal Engineering College

S.No	Name of the Expert Member	Designation and Address	Role
1.	Dr. P. Raja	Associate Professor, National Institute of Technology, Tiruchirappalli	Senior Academician
2.	Dr. M. Periyasamy	Principal, Syed Ammal Engineering College	Senior Faculty Member of the College
3.	Dr. G. Mahendran	Professor & Head ECE, Syed Ammal Engineering College	Research Oriented Person
4.	Mr. R.Muthukumar	Director, VRM Energy Consultancy Service Pvt. Ltd. Chennai	Alumni cum Employer
5.	Mr. M. John Prabu	Assistant Engineer, Municipal Administration, Udumalpet	Alumni
6.	Mrs. K. Revathi (Working as a Teacher in Govt. Hr.Sec School, Erumeni)	M/o Ms. M. Kavitha Shree III EEE, 7/338, Bharathi Nagar, 3 rd Cross Street, Ramanathapuram.	Parent