

# 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, ECE, EEE & MECH )  
Dr. E.M. Abdullah Campus, Ramanathapuram - 623 502, Tamilnadu.



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## Department of Electrical and Electronics Engineering

### News Letter – 2017 - 18

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 ' 2017 - 18" 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' 2017 - 18" 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 EEE organized one day workshop named as “Importance and benefits of Geographic indication” for EEE Students about intellectual property rights through the department IPR cell on 07-10-2017.

- Our EEE Department faculty **Dr. M. Senthil Kumar** who completes his Ph.D in the month of September 2017.
- Our EEE Department student Mr. **G. Sai Suresh**, who won **Third Prize** in ‘**New India Student Championship 2018 – India’s First 24 hours – National level Learnathon**’ conducted by **ICT Academy** and Sales Force.com at our college from 02.02.2018 to 03.02.2018.

## Quality Improvement Cell

1. Through Quality Improvement Cell the following syllabus are prescribed for online certification course on “**Python**” by Spoken Tutorial Team, IIT Bombay in association with Anna University, Chennai.

Topics Covered:

- Getting started with ipython
  - Embellishing a plot
  - Saving plots
  - Getting started with sage notebook
  - Basic datatypes and operators
  - Testing and debugging
2. Through Quality Improvement Cell the following syllabus are prescribed for online certification course on “**Scilab**” by Spoken Tutorial Team, IIT Bombay in association with Anna University, Chennai.
    - Why Scilab
    - Vector operations
    - Conditional Branching
    - Plotting 2D Graphs
    - File handling
    - Solving Non linear Equations
    - Linear equations Gaussion and Iterative Methods
    - Optimization using karmarkar Functions
    - Calling User Defined Functions in XCOS.

## Parent Teachers Meeting

To redress the grievances of the parents and students, every year, we conduct parents and teachers Association Meeting. Large number of parents attended these meetings 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.



### **Renewable Energy Club**

Renewable Energy Club (REC) was formed on 20 August 2004 under the able guidance of Dr. Chinnadurai Abdullah (Correspondent) and Prof. Mohamed Sahabudeen (Principal) SAEC to celebrate Rajiv Gandhi renewable energy day and Tamil Nadu Energy Development Agency (TEDA) sponsored for programmes conducted under this club during the year 2004 to 2006.

The following activities are carrying out in each year on the eve of renewable energy day on 20<sup>th</sup> august every year.

- Seminars, workshops, lectures, quiz competitions, slogan competitions, poster and Essay competitions on Renewable Energy may being conducted for our students as well as for other college students also.
- With a view to encourage students to participate in these competitions etc. token cash prizes may also be given to winning students from within the total budget allocation of Rs. 15,000/-. fund is raised from renewable energy club members or state nodal agency for new and renewable energy(Tamil Nadu energy agency).

### **Number of workshops/seminars conducted on Intellectual Property Rights (IPR) cell and Industry-Academia Innovative practices:**

1. Department of Physics and IPR Cell jointly organized the ‘Fibre Optics and its Applications’ programme to all the first year students on 24.10.2017.
2. IPR Cell of EEE Department has conducted one day awareness program titled ‘Importance and benefits of Geographic indication’ on 07.10.2017.

### Report on in house training conducted for students in last 3 years:

YEAR	NAME OF THE TRAINING	TOPICS COVERED	DURATION OF TRAINING	NUMBER OF STUDENTS ATTEND	VENDOR DETAILS
I	Language Skills	Linguistic Intelligence	6 Days	24	Fragrhen Academy
II	Quantitative Ability	Mathematical Skills	6 Days	30	
III	Life Skills	Soft Skills	9 Days	53	
IV	Technical Training	PLC/SCADA	10 Days	51	MYINCEPTION

### Certificate / diploma programs conducted for students:

The following students have participated in the **Python** training organized at Syed Ammal Engineering college in January 2018 semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

Sl No	Name of the Participants	Sl No	Name of the Participants
1	ABDUL RAHUMAN I	27	MOHAMED SHADH A
2	ABINAYA K	28	MUHAMMAD ASIK K T
3	AJITH KUMAR P	29	MUNEES GOWTHAM K
4	ANUSUYA S	30	MUTHUNISHANTHINI S
5	ANWAR IBRAHIM S	31	NITHYA R
6	AARTHI B	32	RAJIVE S
7	ASWATHI KUMARI S	33	RAMANATHAN R
8	BASITH ALI S	34	RAMYA A

9	HARIS BABU M	35	RANJITH D
10	JOESUVA M	36	RASHEKA B
11	JUGEE SRI V	37	SARAVANA KUMAR M
12	KALAIVANI M	38	SELVAPRASATH P
13	KANNAN G	39	SHEIK ABDULLAH K
14	KARTHICK B	40	SIVA KARTHIKA S
15	KARTHICK PANDI M	41	SYED MOHAMED SAMSUDEEN S
16	KARUNYA P	42	THARANI P
17	KOTTAISELVAN A	43	VASANTHA DEVI P
18	KUPESH KANNAN R	44	VIGNESHWARAN R
19	MANIHARISH R	45	VIJAY V
20	MANISHA M	46	VIKNESH S
21	MATHIVANAN M	47	VINITHA S
22	MOHAMED ASIK MEERAN S R	48	WASIM AKRAM A
23	MOHAMED ASLAM S	49	ABDUL AZIZ
24	MOHAMED BASITH RAHMAN K M	50	MOHAMMED IMRAN
25	MOHAMED IKSHAN A	51	RANJITH
26	MOHAMED JAVITH J	52	VIMALSHRI
		53	KARTHIGA

The following students have participated in the **Scilab** training organized at Syed Ammal Engineering college in July 2017 semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

1	AKBAR JAHAN J	18	MUKILA DEVI L
2	ANSERDEEN S	19	NAGAMUGESH N
3	ARAVINTH A	20	NIVETHA G
4	AZEEPKHAN M	21	NIVETHITHA C K
5	BALAJI K G	22	PARTHIBAN VIVEK M
6	BHARATHIKUMAR S	23	PREMA N
7	HARINI M	24	PRITHIKA S
8	KALEESH KUMAR S	25	RAJARAJAN A
9	KARTHIK K	26	RAJESWARI M
10	KIRUTHIVASAN D	27	RAJITH KUMAR R
11	LINGESH KUMAR S	28	RESHMAN SIHAPATHI P
12	MALAVIKA K	29	RUBA DEVI S
13	MOHAMED RIYASUDEEN D	30	SALMAN FARIS M
14	MOHAMED SAHAL A	31	SAMEER MOHAMED A
15	MOHAMED SAYEED ANWAR J	32	SESHANTHIKA S
16	MOHITH AJAY A	33	THEJASVINI G
17	MUHAMMAD ARSHAD M	34	KARTHIKEYAN M

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

<b>ACADEMIC YEAR ( 2017- 2018)</b>					
S. No	Name of the student(s)	Date(s)	Name of the Event	Organized / Sponsored by	Prize / Participation
1.	K.G.Balaji	8.12.17	workshop	Uniq technologies	participation
2.	S.Lingeshkumar	8.12.17	workshop	Uniq technologies	participation
3.	Anserdeen.S	8.12.17	workshop	Uniq technologies	participation
4.	M.Muhammed Arsad	8.12.17	workshop	Uniq technologies	participation
5.	M.Parthiban vivek	8.12.17	workshop	Uniq technologies	participation
6.	Jothipriya.R	9.03.2018 & 10.03.2018	International Conference on Emerging Trends in Engineering & Technology	Pandian Saraswathi Yadav Engineering College	participation
7.	Janani.S				Participation
8.	Guna.S				Participation
9.	Ajith.K				Participation
10	Kidur Mohamed.A	1.03.2018 & 2.03.2018	International Conferences on Advances in Engineering	SBM College of Engineering and Technology	Participation
11	Izaz Ahamed,M				Participation

**Industrial Visit:**

<b>YEAR</b>	<b>DATE OF VISIT</b>	<b>COMPANY DETAILS</b>	<b>NO. OF STUDENTS</b>	<b>NO. OF STAFFS</b>
4 <sup>TH</sup> YEAR	05-10-2017	Central Coir Research Institute, Kalavoor P.O., Allepe district, Kerala	46	2
	06-10-2017	TRACO, Irimpanam, Via Thirupunitra, Ernakulam District Kerala - 689103		



## Placement Report:

Department & Year	Name of the company & Address	Salary per Annum	Number of Students
IV EEE	Vadim Infrastructure Private Limited, Chennai	120000	16
	WINDCARE PVT LTD	108000	8
	ELMEC Heater & Appliances	120000	5
	SH Electronics India Pvt. Ltd. in	120000	17

## Faculty Activities:

### Journals Published:

1. Selvaperumal S, Sundari M, M S Sivagama ,”A Comparative Analysis of Multicarriere Modulation Strategies for Cascaded H-Bridge Multilevel inverter “*in proceedings of Journal of Computational and Theoretical Nano Science*, Vol 14, No 12, Dec 2017, pp. 6020-6029(10)
2. Prabakar Gunasekaran, Selvaperumal, Sundaramoorthi, Nedumal Pugazhenthithi, “Fault Data Injection attack On car-following model and mitigation based on interval type 2 fuzzy logic controller”, ISSN:2398-3396.
3. R. Nagarajan, R. Dhanasekaran, “energy efficient data transmission approaches for wireless industrial automation”, Current Signal Transduction Therapy, DOI: 10.2174/1574362413666180306114548.
4. R Nagarajan, R. Dhanasekaran, “Maximization of length and life time of clustered industrial automation network”, DOI:10.17559/TV-20150910151641.



5. Palanisamy, Rajasekaran, Selvaperumal, “Design and Analysis of FPGA Controller Based pulse width Modulation boost rectifier in marine application”, in *proceedings of Journal of computational and theoretical nano science*, Vol 14, No 12, Dec 2017, pp. 5851-5857(7).
6. A Jayachandran, R Dhanasekaran, “Multi Class Brain Tumor Classification of MRI Images Using Hybrid Structure Descriptor And Fuzzy Logic Based RBF Kernel SVM”, *Iranian Journal of Fuzzy Systems* Vol. 14, No. 3, (2017) pp. 41-54.
7. R Dhanasekaran, Vigneshwaran Pandi, “Optimum Selection of Forwarding Group Node in Multicast Routing Protocols”, *International Journal of Advancements in Computing Technology(IJACT)*, DOI: 10.13140/RG.2.2.19348.81282.
8. Dr S Selvaperumal, B Ramasubramanian, “Efficient Approach for the Automatic detection of Hemorrhages in Color Retinal Images”, *IET image processing*, Print ISSN 1751-9659, Online ISSN 1751-9667.
9. Dr S Selvaperumal, B Ramasubramanian, “Intelligent Controller for speed control of three phase induction motor using indirect vector control method in marine applications”, *Indian Journal of Geo Marine Sciences*, ISSN: 0975-1033 (Online), ISSN: 0379-5136 (Print).
10. Dr S Selvaperumal, B Ramasubramanian, “A comparative analysis of multicarrier modulation strategies for cascaded H-Bridge multilevel inverter”, *Journal of Computational and Theoretical Nanoscience*, ISSN: 15461955, 15461963.
11. Dr S Selvaperumal, “Design and analysis of FPGA controller based pulse width modulation boost rectifier in marine applications”, *Journal of Computational and Theoretical Nanoscience*, ISSN: 15461955, 15461963.
12. Dr S Selvaperumal, G Prabhakar, P Nedumal Pugazhenthii, “Performance investigation of SHE PWM implementation of GA based LCL resonant inverter in marine applications”, *Indian Journal of Geo Marine Sciences*, ISSN: 0975-1033 (Online), ISSN: 0379-5136 (Print).

## **Conferences:**

1. R Dhanasekaran, “Selected Studies of Electromagnetic Exposure Levels in the Countries of Asia–A Review”, in *Proceedings of International Conference on Communication and Signal Processing (ICCSP)*
2. R Dhanasekaran, “A Review on Current Issues of Radio Frequency Identification Devices in Magnetic Resonance Imaging”, in *proceedings of International Conference on Communication and Signal Processing (ICCSP)*
3. R Dhanasekaran, “Comparison between Photovoltaic and Wind Turbine for Monetary and Non-monetary Costing”, *International Conference for Phoenixes on Emerging Current Trends in Engineering and Management (PECTEAM 2018)*

### Book Publications:

1. Dr R Dhanasekaran, “finite field multipliers and error detection methods”, LAP LAMBERT, Academic Publishing, Germany, ISBN-13: 978-613-7-32727-2 ISBN-10: 6137327272 EAN: 9786137327272.
2. Dr S Selvaperumal, “Computation Of Steady State Voltage Stability Margin Of A Power System”, LAP LAMBERT, Academic Publishing, Germany, ISBN-13: 978-613-9-92328-1.
3. Dr S Selvaperumal, “Detection & Isolation of Faults in Electrical System with Optimization”, LAP LAMBERT, Academic Publishing, Germany, 978-3-330-35270-4.

### Training conducted to teaching staff:

Sl.No.	Duration of Program	Name of the Program	Title of the Program	Sponsored Agency
1.	27, November to 01, December 2017	Short Term Course	Power Electronics & its Applications through ICT	NITTTR, Chandigarh

### Number of research projects per teacher funded by government and non-government agencies:

Name of the Project/ Endowments, Chairs	Name of the Principal Investigator/Co-investigator	Amount Sanctioned (In Rupees)	Duration of the project	Name of the Funding Agency	Type (Government/non-Government)
WORKSHOP	Dr R Dhanasekaran	15,000	2 days	IEEE	Non Government

### 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
4	Dr.R.Dhanasekaran	2007	YES	YES	2009

## **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 18.06.2017 at 2.00 P.M to draft the forthcoming academic activities of the Department.

The following members were present.

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

<b>S.No</b>	<b>Name of the Expert Member</b>	<b>Designation and Address</b>	<b>Role</b>
1.	Mr. R.Muthukumar	Vice President, VRM Energy Consultancy Service Pvt. Ltd. Chennai-600024.	Alumni
2.	Mr. Jothi Arul Kumar	Jeevan Electronics, Madurai	Employer
3.	Mrs. G.Shantha Rani	M/o Ms.G.Thejasvini, II EEE, Ramanathapuram.	Parent
4.	Dr. A. Amudha	Professor, Karpagam University, Coimbatore	Senior Academician
5.	Dr. S. Muralidharan	Professor, Mepco schlenk engineering college, Sivakasi.	Senior Academician
6.	Dr. R. Dhanasekaran	Director-Research, Syed Ammal Engineering College	Research Oriented Person
7.	Dr. M. Periyasamy	Vice Principal	Senior Faculty Member of the College