

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 – 2018 - 19

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 ' 2018 -19” 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.

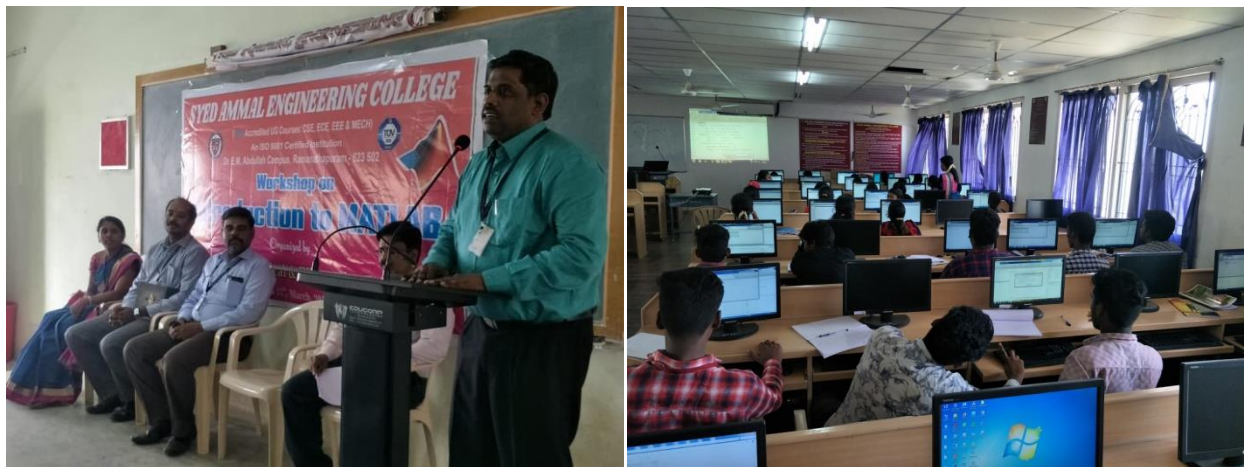
“News Letter of EEE' 2018 -19” reflects the success stories of our students and the faculty members. It is circulated to all students and faculty members containing information including placements, sport events, paper presentations, conferences etc.

Department Activities:

1. The Departments of EEE organized three days workshop named as “**Hands-On Training on Arduino Studio**” on 02-03-2019 & 03-03-2019.



2. The Departments of EEE organized two days workshop named as “**Introduction to MATLAB**” on 16-03-2019 & 17-03-2019.



3. The Departments of EEE organized two days workshop named as “**PCB Fabrication and Assembling**” on 15-02-2019 and 16-02-2019.



- Our EEE Department faculty **Dr. G. S. Naganathan** who completes his Ph.D in the month of December 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 20th 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 Chemistry and IPR Cell jointly organized the ‘Plastic Awareness’ programme to all the first year students on 23.10.2018.
2. IPR Cell of EEE Department has conducted one day awareness program titled ‘Writing and Submission of paper in Symposium / Conference / Journals’ on 11.08.2018.

In House training conducted for students:

Department and Year	Name of the course/training	Topics Covered	Duration of Training	Number of Students Attended	Vendor Details
I EEE	Language Skills	Linguistic intelligence	6 days	32	Fragrhen Academy
II EEE	Quantitative Ability	Mathematical skills	6 days	21	Fragrhen Academy
III EEE	Life skills	Soft skills	9 days	30	MYINCEPTION
IV EEE	Technical training	PLC/SCADA and Technical & Competitive Examination Training	10 days	53	MYINCEPTION

Sl.No.	Duration of Program	Department	Name of the Program	Title of the Program	Sponsored Agency
1.	16-17, March 2019	EEE	Workshop	Introduction to MATLAB	Self supporting
2.	2-3, March 2019	EEE	Workshop	Arduino Hands on Training	Self supporting
3.	15-16, February 2019	EEE	Workshop	PCB Fabrication and Assembling	Self supporting
4.	23.02.2019	EEE	Mini Project	ISTE Technical Mini Project Expo 2019	ISTE

Industrial Visit:

YEAR	DATE OF VISIT	COMPANY DETAILS	NO. OF STUDENTS	NO. OF STAFFS
2 nd and 3 rd YEAR	31-08-2018	Hindusthan Heavy Electricals Pvt Ltd, Coimbatore	47	2
	01-09-2018	Vivin Industries, Coimbatore		



Placement Report:

Department and Year	Name of the Company and Address	Salary per Annum	Number of Students Placed
IV EEE	GESCO Healthcare Pvt Ltd	120000	9
	Just Connect Electricals Pvt.Ltd,	108000	23
	CADD Centre Training Services Private Limited	180,000	1
	Syrma Technology Pvt Ltd	114000	5
	Competition Team Technology (India) Pvt. Ltd.	130000	1
	Magus Customer Dialog	114000	3
	Windcare India Pvt Ltd	120000	6

Certificate / diploma programs conducted for students:

The following students have participated in the **Python** and **KiCad** trainings organized at Syed Ammal Engineering college in July 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	20	MUNEEES GOWTHAM K
2	ABINAYA K	21	MUTHUNISHANTHINI S
3	ANUSUYA S	22	NITHYA R
4	ANWAR IBRAHIM S	23	RAMYA A
5	ASWATHI KUMARI S	24	RANJITH D
6	JOESUVA M	25	SARAVANA KUMAR M
7	JUGEE SRI V	26	SELVAPRASATH P
8	KALAIVANI M	27	SHEIK ABDULLAH K
9	KANNAN G	28	SIVA KARTHIKA S
10	KARTHICK B	29	SYED MOHAMED SAMSUDEEN S
11	KARTHICK PANDI M	30	VASANTHA DEVI P
12	KOTTAISELVAN A	31	VIJAY V
13	KUPESH KANNAN R	32	VINITHA S
14	MANIHARISH R	33	ABDUL AZIZ
15	MANISHA M	34	MOHAMMED IMRAN
16	MATHIVANAN M	35	IRSHATH AHAMED
17	MOHAMED ASIK MEERAN S.R	36	HARIS BABU M
18	MOHAMED ASLAM S	37	KARUNYA P
19	MOHAMED ISKAN A	38	MOHAMED JAVITH J

39	MOHAMED SHADH A	59	BHARATHIKUMAR S
40	MUHAMMAD ASIK K.T	60	HARINI M
41	RAJIVE S	61	MOHAMED RIYASUDEEN D
42	RAMANATHAN R	62	MOHAMED SAHAL A
43	RASHEKA B	63	MOHAMED SAYEED ANWAR J
44	THARANI P	65	MUHAMMAD ARSHAD M
45	VIGNESHWARAN R	66	MUKILA DEVI L
46	VIKNESH S	67	NAGAMUGESH N
47	WASIM AKRAM A	68	NIVETHA G
48	AJITHKUMAR P	69	PARTHIBAN VIVEK M
49	RANJITH K	70	PRITHIKA S
50	KARTHIGA S	71	RAJARAJAN A
51	BASITH ALI S	72	RAJESWARI M
52	AARTHI B	73	RESHMAN SIHAPATHI P
53	VIMALASHRI A	74	RUBA DEVI S
54	AKBAR JAHAN J	75	SALMAN FARIS M
55	ANSERDEEN S	76	SAMEER MOHAMED A
56	ARAVINTH A	77	SESHANTHIKA S
57	AZEEPKHAN M	78	THEJASVINI G
58	BALAJI K G	79	KARTHIKEYAN M

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

S. No	Name of the student(s)	Date(s)	Name of the Event	Organized / Sponsored by	Prize / Participation
1.	Karthik.K	23.02.19	Mini project	SAEC	participation
2.	Karthik.K	17.06.19	workshop	SAEC	Participation
3.	Balaji.K.G	15.02.19	workshop	SAEC	Participation
4.	Karthik.K	02.03.19	workshop	SAEC	participation
5.	Karthik.K	22.05.19	Inplant training	Arkay energy limited	participation
6.	Karthik.K	15.02.19	workshop	SAEC	participation
7.	Parthiban vivek.M	26.05.19	Inplant training	Arkay energy limited	participation
8.	Parthiban vivek.M	15.02.19	workshop	SAEC	participation
9.	Parthiban vivek.M	02.03.19	workshop	SAEC	participation
10.	Balaji.K.G	23.02.19	Mini project	SAEC	participation
11.	Balaji.K .G	02.03.19	workshop	SAEC	participation
12.	Parthiban vivek.M	18.06.19	Inplant training	BSNL	participation
13.	Mukila devi.l	15.02.19	workshop	SAEC	participation
14.	Mukila devi.l	02.03.19	workshop	SAEC	participation
15.	Mukila devi.l	23.02.19	Mini project	SAEC	3 rd prize
16.	Malavika.k	08.02.19	Workshop	Fatima Michael college	Participation
17.	Malavika.k	02.03.19	workshop	SAEC	Participation
18.	Malavika.k	15.02.19	workshop	SAEC	Participation
19.	Malavika.k	23.02.19	Mini project	SAEC	Participation
20.	Malavika.k	20.05.19	workshop	Uniq technologies	Participation
21.	Malavika.k	20.05.19	Inplant training	Uniq technologies	Participation
22.	Malavika.k	17.06.19	workshop	SAEC	participation
23.	Seshanthika.S	23.02.19	Mini project	SAEC	Participation
24.	Seshanthika.S	15.02.19	workshop	SAEC	Participation
25.	Seshanthika.S	08.02.19	Workshop	Fatima Michael college	Participation
26.	Lingesh kumar.S	15.02.19	workshop	SAEC	Participation
27.	Lingesh kumar.S	02.03.19	workshop	SAEC	Participation
28.	Lingesh kumar.S	23.02.19	Mini project	SAEC	Participation
29.	Nivetha.G	23.02.19	Mini project	SAEC	Participation
30.	Nivetha.G	15.02.19	workshop	SAEC	Participation
31.	Nivetha.G	02.03.19	workshop	SAEC	Participation
32.	Nivetha.G	08.02.19	Workshop	Fatima Michael college	Participation
33.	Mohamed sahal.A	18.06.19	Inplant training	BSNL	

34.	Mohamed sahal.A	15.02.19	workshop	SAEC	Participation
35.	Mohamed sahal.A	02.03.19	workshop	SAEC	Participation
36.	Mohamed sahal.A	23.02.19	Mini project	SAEC	Participation
37.	Mohamed sahal.A	22.05.19	Inplant training	Arkay energy limited	Participation
38.	Mohammed syed anwar.J	15.02.19	workshop	SAEC	Participation
39.	Mohammed syed anwar.J	02.03.19	workshop	SAEC	Participation
40.	Sameer mohammed.A	02.03.19	workshop	SAEC	participation
41.	Sameer mohammed.A	05.06.19	workshop	SAEC	participation
42.	Sameer mohammed.A	08.02.19	workshop	Mepco schlenk engineering college	participation
43.	Sameer mohammed.A	23.02.19	Mini project	SAEC	participation
44.	Sameer mohammed.A	15.02.19	workshop	SAEC	participation
45.	Kavya.K	15.02.19	workshop	SAEC	participation
46.	Kavya.K	05.06.19	workshop	SAEC	participation
47.	Kavya.K	27.05.19	Inplant training	BSNL	participation
48.	Pragadeeswari.M	15.02.19	workshop	SAEC	participation
49.	Salmiya.N	15.02.19	workshop	SAEC	participation
50.	Deepika,S	15.02.19	workshop	SAEC	participation
51.	Durai murali.R	17.06.19	workshop	SAEC	participation
52.	Salmiya.N	27.05.19	Inplant training	BSNL	participation
53.	Deepika.S	27.05.19	Inplant training	BSNL	participation
54.	Dhaya jothi.R	27.05.19	Inplant training	BSNL	participation
55.	Pragadeeswari.M	27.05.19	Inplant training	BSNL	participation
56.	Ruba devi.S	15.02.19	workshop	SAEC	Participation
57.	Ruba devi.s	08.02.19	workshop	Fatima Michael engineering college	participation
58.	Ruba devi.S	23.02.19	Mini project	SAEC	2 nd prize
59.	Sampath.M.S	16.03.19	workshop	SAEC	participation
60.	Hari haran.J.K	16.03.19	workshop	SAEC	participation
61.	Prithika.S	15.02.19	workshop	SAEC	participation
62.	Prithika.S	08.02.19	workshop	Fatima Michael college	Participation
63.	Prithika.S	23.02.19	Mini project	SAEC	Participation
64.	Rajeswari.M	08.02.19	workshop	Fatima Michael college	Participation
65.	Rajeswari.M	23.02.19	Mini project	SAEC	Participation
66.	Prithika.S	02.03.19	workshop	SAEC	participation
67.	Karthikeyan.M	23.02.19	Mini project	SAEC	1 st prize

68.	Karthikeyan.M	02.03.19	workshop	SAEC	participation
69.	Karthikeyan.M	15.02.19	workshop	SAEC	participation
70.	Harini.M	15.02.19	workshop	SAEC	participation
71.	Harini.M	02.03.19	workshop	SAEC	participation
72.	Harini.M	23.02.19	Mini project	SAEC	3 rd prize
73.	Mohammed arshad.M	23.02.19	Mini project	SAEC	participation
74.	Akbar jagan.J	23.02.19	Mini project	SAEC	2 nd prize
75.	Mohammed arshad.M	15.02.19	workshop	SAEC	participation
76.	Mohammed arshad.M	02.03.19	workshop	SAEC	participation
77.	Siva Karthika.S	15.03.2019 & 16.03.2019	6 th International Conference on Emerging Trends In Engineering & Technology	Pandian Saraswathi Yadav Engineering College	Participation
78.	Muthunishanthini.S				Participation
79.	Mohamed Aslam.S				Participation
80.	Abdul Rahman.I				Participation
81.	Nithya.R	27.03.2019	12 th National Conference on Power Electronics & Drives	Alagappa Chettiyar Government College of Engineering and Technology, Karaikudi	Participation
82.	Aarthi.B				Participation
83.	Anusuya.S				Participation
84.	Sheik Abdullah.K	10.05.2019 To 12.05.2019	International Conference on Research Trends in Science Technology Engineering & Management	Jayamukhi Institute of Technological Sciences	Participation
85.	Irsath Ahamed.S				Participation

Faculty Activities:

TRAINING CONDUCTED TO TEACHING STAFF:

Sl.No.	Duration of Program	Department	Name of the Program	Title of the Program	Sponsored Agency
1.	04, August 2018	All departments	Workshop	How to write Good scientific project proposal	Self supporting
2.	20-25, May 2019	EEE	FDP	Control System Engineering	AICTE

Journals Published:

1. R.Dhanasekaran, T. Sudarson Rama Perumal, "Early diagnosis of Glaucoma in retinal images using multi structure descriptor and hybrid neural network classifiers", Springer Science+Business Media, LLC, part of Springer Nature 2019.
2. Dr R Dhanasekaran, "SEAT-DSR: Spatial and Energy Aware Trusted Dynamic Distance Source Routing Algorithm for Secure Data Communications in Wireless Sensor Networks", Cognitive Systems Research: ISSN: 1389-0417.
3. S. Selvaperumal, N.A. Gounden, "Real Time Processing in Control, Computer Vision and Power Electronics", *Current Signal Transduction Therapy*, 2018, Vol. 13, No. 1.
4. S. Selvaperumal, "A grid-connected asymmetrical cascaded H-bridge 81 level inverter with single PV unit and voltage splitting multi winding isolation transformer in marine applications", *Current Signal Transduction Therapy*, ISSN: 2212-389X (Online), ISSN: 1574-3624 (Print)
5. Dr S Selvaperumal, "Experimental Analysis of Performance and Thermal Capability of Three Phase Squirrel Cage Induction Motor Using Plastered Composite Conductors", *Current nanometerial*, ISSN (Online): 2405-4623.
6. Dr S Selvaperumal, "Privacy Protection of Patient Medical Images using Digital Watermarking Technique for E-healthcare System", *Current nanometerial*, ISSN (Online): 2405-4623.
7. Dr S Selvaperumal, G Prabhakar, "Anfis Classifier Based Moving Object Detection and Segmentation in Indoor and Outdoor Environments", *Current Signal Transduction Therapy*, ISSN: 2212-389X (Online), ISSN: 1574-3624 (Print).
8. Dr S Selvaperumal, G Prabhakar, "Formation Control of Cyber Physical Robots in Marine Applications", *Indian Journal of Geo Marine Sciences*, ISSN: 0975-1033 (Online), ISSN: 0379-5136 (Print).
9. Dr S Selvaperumal, B Ramasubramanian, "The possibility of the combination of OCT and fundus images for improving the diagnostic accuracy of deep learning for age-related macular degeneration: a preliminary", *Medical & Biological Engineering & Computing*, ISSN: 0140-0118 (print version) ISSN: 1741-0444 (electronic version).
10. Dr S Selvaperumal, G Prabhakar, P Nedumal Pugazhenth, "Fuzzy PD Plus I Control-based Adaptive Cruise Control System in Simulation and Real-time Environment", *IETE Journal of Research*, ISSN (printed): 0377-2063, ISSN (electronic): 0974-780X.
11. Dr S Selvaperumal, G Prabhakar, P Nedumal Pugazhenth, "Fault data injection attack on car-following model and mitigation based on interval type-2 fuzzy logic controller", *IET Cyber Physical Systems: Theory and Applications*: ISSN 2398-3396.
12. S. Selvaperumal, G. Prabhakar, S.S. Sundaram, K. Annaraja, "ANN-based Maximum Power Point Tracking for a Large Photovoltaic Farm Through Wireless Sensor Networks", *Current Signal Transduction Therapy*, 2019, 14, 38-48.
13. G.S. Naganathan, "Optimization of support vector machine parameters for voltage stability margin assessment in the deregulated power system", Springer-Verlag GmbH Germany, part of Springer Nature 2018.

Conferences:

1. Dr S Selvaperumal, "Hardware implementation of Asymmetrical Cascaded H bridge 41 level Inverter using PIC microcontroller", in *proceedings of International conference on smart systems and inventive technology (ICSSIT)*, ISBN: 978-1-5386-5873-4.

Book Publications:

1. S.Selvaperumal, "Principles of Management" LAP LAMBERT, Academic Publishing, Germany, ISBN: 978-613-9-45860-8.
2. S.Selvaperumal, "Modelling and Analysis of Induction Motor Drives", LAP LAMBERT, Academic Publishing, Germany, ISBN: 978-620-0-00016-3
3. S.Selvaperumal, "Analysis of Inverters", LAP LAMBERT, Academic Publishing, ISBN: 978-620-0-09471-1
4. Senthil Kumar M, G Prabhakar, "Certain investigations of speed control of dc drive", LAP LAMBERT, Academic Publishing, Germany, ISBN: 978-620-0-24685-1
5. Dr R Dhanasekaran, "Simulation of OPF Problem incorporating various FACTS Devices", LAP LAMBERT, Academic Publishing, Germany, ISBN: 978-3-659-24300-4
6. S.Selvaperumal, "Advancements in Engineering and Technology", LAP LAMBERT, Academic Publishing, Germany, ISBN: 978-613-9-96187-0
7. S.Selvaperumal, "Professional Ethics in Engineering" LAP LAMBERT, Academic Publishing, Germany, ISBN: 978-620-2-06324-1

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)
Faculty Development Programme	Dr S Selvaperumal	4,57,000	2 weeks	AICTE	Government
Tamil Technical Magazine	Dr S Selvaperumal	20,000	1 year	TNSCST	Government
Faculty Development Training Programme	Dr R Dhanasekaran	30,000	1 week	Anna University	Government
WORKSHOP	Dr R Dhanasekaran	10,000	1 day	IEEE	Non Government

Number of Teachers Recognized as Research Guides at Present

Sl. 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

Number of Ph.Ds completed per eligible teacher during the year:

Sl. No	Name of the Supervisor	Name of the scholar	Year of Obtaining PhD
1	Dr.S.Selvaperumal	Ramasubramanian B	2018-19
2	Dr.S.Selvaperumal	Sivagama Sundari	2018-19

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 17.06.2018 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

S.No	Name of the Expert Member	Designation and Address	Role
1.	Mr. M. John Prabu	Assistant Engineer, Municipal Administration, Udumalpet	Alumni
2.	Mr. V. R. M. Muthukumar	Vice President, VRM Energy Consultancy Service Pvt. Ltd. Chennai - 600024.	Employer

3.	Mrs. G. Shantha Rani	M/o Ms.G.Thejasvini, III EEE, Ramanathapuram.	Parent
4.	Dr. Moorthy	NIT, Tiruchirappalli	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