

(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

<u>News Letter – 2016 - 17</u>

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 programmes in M.E Embedded System Technologies and Power Electronics and Drives. 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, cocurricular 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 ' 2016 -17" 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' 2016 - 17" 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.

DEARTMENT ACTIVITIES:

WORKSHOPS CONDUCTED:

The Department of EEE organized one day workshop named as "Plagiarism in Journals and Books" for EEE Students about intellectual property rights through the department IPR cell on 17-09-2016.

- Our EEE Department faculty **Dr. S. Aiswariya** who completes her Ph.D in the month of November 2016.
- Our EEE Department faculty **Dr. S. Muthulakshmi** who completes her Ph.D in the month of December 2016.

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 English and IPR Cell jointly organized the 'ELITE'16' programme to all the first year students on 24.10.2016.
- 2. IPR Cell of EEE Department has conducted one day awareness program titled 'Plagiarism in Journals and Books' on 17.09.2016.

TRAINING PROGRAMS CONDUCTED:

In the year 2016-17 the department of EEE organized Training Programe for 1st,2nd,3rd and 4th year in association with Fragrhen Academy & MYINCEPTION.

YEAR	NAME OF THE TRAINING	TOPICS COVERED	DURATION OF TRAINING	NUMBER OF STUDENTS ATTEND	VENDOR DETAILS
I	Language Skills	Linguistic Intelligence	6 Days	50	Fragrhen Academy
II	Quantitative Ability	Mathematical Skills	6 Days	51	j
III	Life Skills	Soft Skills	9 Days	53	
IV	Technical Training	PLC/SCADA	10 Days	66	MYINCEPTION

INDUSTRIAL VISIT:

The Department of EEE organized an Industrial Vist for 3rd & 4th year in the duration of 03-08-2016 to 07-08-2016.

IV YEAR

IV DURATION	DATE OF COMPANY VISIT	COMPANY NAME	NO OF STUDENTS	NO OF FACULTIES
3-08-2016		MAXBE INDUSTRIES		
to	4-08-2016		62	2
7-08-2016		#264/5, Ganeshapuram MGC		
		Palayam (post),		
		Coimbatore - 641107		

III YEAR

IV DURATION	DATE OF COMPANY VISIT	COMPANY NAME	NO OF STUDENTS	NO OF FACULTIES
4-08-2016 to 7-08-2016	4-08-2016	BEWBEC, #32-B, Bommasandra Industrial Area, Hosur road, Bangalore - 560099	47	2

II YEAR

IV DURATION	DATE OF COMPANY VISIT	COMPANY NAME	NO OF STUDENTS	NO OF FACULTIES
9-09-2016 to 11-08-2016	9-09-2016	Sun Edison Solar Energy Private Limited, Murajipatti, Thirunelveli District	35	2

PLACEMENT REPORT:

Department & Year	Name of the company & Address	Salary per Annum	Number of Students
	PHA Pvt Ltd, Chennai	120000	5
	SUN BRANDING SOLUTIONS	120000	1
IV EEE	Aagna Global Solutions	144000	4
	Magus Customer Dialog Pvt Ltd	108000	4

Certificate / diploma programs conducted for students:

The following students have participated in the **Scilab** training organized at Syed Ammal Engineering college in January 2017 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	AKSHAYA G	20	JANANI M
2	MOHAMED FAZIL M	21	KALANDER MOHAMED KASSIM S.N
3	MOHAMED OWAIS A	22	KARTHIKEYAN S
4	MOHAMED SABIK A	23	KEERTHANA K
5	DINESH RAJA P	24	KIRAN DEEPA M
6	ABDUL MAJITH I	25	MADHU BALA K
7	AJIT KUMAR J	26	MEYYAMMAI K
8	ASRAF HAJJU MOHAMED A	27	MOHAMED GANI S
9	BALAMOGAN S	28	MOHAMED JIBRI S
10	BALAMURUGAN R	29	MOHAMED SALAHUDEEN M
11	BENASIR BARVIN M	30	NANDHA KUMAR S
12	BOOBESH KUMAR N	31	PAVITHRA B
13	DIVYA M	32	RAJA PANDI N
14	FARITH ASHIK RAHMAN S	33	RAMAR M
15	GOKULA NITHYA P	34	SABARI MANI KANDAN B
16	GOKULAPRIYA N	35	SAM PAUL CHRISTON S
17	GUNANITHYA R	36	SAM RAJ H
18	HARISH BABU R	37	SANJEEVI GUNA S
19	HEMA KAVIYA R	38	SANKARI M

39	SARANYA DEVI R	59	GANESH BABU M
			MAHMOODH RIKASHA S
40	SARAVANA KUMAR N	60	
41	SITTUMA J	61	MOHAMED MUSTAQ ALI T.M
42	SUNDARI P	62	PRITHIVEE RAJ M
43	SYED AMEENUDEEN M	63	RAGUL S
44	THAMARAISELVI P	65	RAHUL B
45	YOGA G	66	YASAR ARABATH S
46	YUSUF ANSARI	67	AJITHA M
47	AJITH KUMAR S	68	HARICHANDHAR M
48	ATHI MOOLAM C	69	VISHNU KAPIL DEV R
49	GODHANDAPANI S	70	MOHAMED ABDUL KADHAR J
50	KARTHIKEYAN S	71	REVANTH R
51	MANI KANDAN S	72	SAKTHI MURUGAN B
52	MOHAMED ABUL BARAGATH S	73	ABDUL RAHUMAN I
53	MUTHULAKSHMI V	74	ABINAYA K
54	RAJENDHAR S	75	ANUSUYA S
55	RAMAMOORTHY S	76	ANWAR IBRAHIM S
56	RANJITH M	77	ASWATHI KUMARI S
57	SIVA KUMAR R	78	JOESUVA M
58	AISWARYA LAKSHMI K.R	79	JUGEE SRI V

		0.6	
80	KALAIVANI M	96	RAMYA A
81	KANNAN G	97	RANJITH D
82	KARTHICK B	98	SARAVANA KUMAR M
83	KARTHICK PANDI M	99	SELVAPRASATH P
84	KOTTAISELVAN A	100	SHEIK ABDULLAH K
85	KUPESH KANNAN R	101	SIVA KARTHIKA S
86	MANIHARISH R	102	SYED MOHAMED SAMSUDEEN S
87	MANISHA M	103	VASANTHA DEVI P
88	MATHIVANAN M	104	VIJAY V
89	MOHAMED ASIK MEERAN S.R	105	VINITHA S
90	MOHAMED ASLAM S	106	ABDUL AZIZ
91	MOHAMED ISKAN A	107	MOHAMMED IMRAN
92	MUNEES GOWTHAM K	108	IRSHATH AHAMED
93	MUTHUNISHANTHINI S	109	HARIS BABU M
94	NITHYA R	110	KARUNYA P
95		111	MOHAMED JAVITH J

Faculty Activities:

TRAINING CONDUCTED TO TEACHING STAFF:

Sl.No.	Duration of Program	Name of the Program	Title of the Program	Sponsored Agency
1.	6-12, June 2016	FDTP	Power Electronics	Anna University
2.	20, August 2016	FDP	How to be an interesting and inspiring teaching professionals?	Self supporting
3.	13, December 2016	FDTP	Modern Tool Usage in Teaching	Self supporting

Journals Published:

1. M. Senthilkumar, K. Mahadevan, "Removal of Moisture Content in Paper Machine Using Soft Computing Techniques", *Journal of Circuits and Systems*, 2016, 7, 2542-2550

- 2. M. Senthilkumar, K. Mahadevan, "A Novel Methadology Based on Particle Swarm Optimization and Genetic Algorithm in paper Industry and Maraine Application", *Indian Journal of Geo-Marine Sciences* volume. 45(10),October 2016, pp.1357-1364
- 3. M. Senthilkumar, K. Mahadevan, "Paper Machine Industrial Analysis on Moisture Control Using BF-PSO Algorithm and Real Time Implementation Setup Through Embedded Controller", *Journal of* J Electr Eng Technol.2016; 11(2): 490-498
- 4. M. Senthilkumar, K. Mahadevan, "A Novel Methodology based on bacterial Foraging Technique in paper industry and marine applications and Genetic Algorithm in Paper Industry and Marine Application", *Indian Journal of Geo-Marine Sciences* volume. ISSN: 0975-1033 (Online), ISSN: 0379-5136 (Print).
- R. Nagarajan, R. Dhanasekaran, "Maximization of Length and Lifetime of Clustered Industrial Automation Network", ISSN 1330-3651 (Print), *Journal of* ISSN 1848-6339 (Online) DOI: 10.17559/TV-20150910151641
- M.R. Joshi, R Dhanasekaran, "Power Factor Improvement in Switched Reluctance Motor Drive", *Indian Journal of Scientific & Industrial Research*, Vol. 76, January 2017, pp. 63-67

- 7. S. Muthulakshmi, R. Dhanasekaran, "A New Front End Capacitive Converter Fed Switched Reluctance Motor for Torque Ripple Minimization", *Journal of Circuits and Systems*, 2016, 7, 585-595
- 8. M. Dhamodaran, R. Dhanasekaran, "Evaluation of the Capacitance and Charge Distribution of Metallic Objects by Electrostatic Analysis" *Journal of Scientific & Industrial Research*, Vol. 75, September 2016, pp. 552-556
- R. Nagarajan, R. Dhanasekaran, "Fault-Tolerant Wireless Communication System for Process Control in Wind Power Stations", *Journal of Scientific & Industrial Research*, Vol. 75, January 2016, pp. 51-55
- 10. S. Muthulakshmi, R. Dhanasekaran, "Speed Control of Switched Reluctance Motor Using Soft Computing Technique for Industrial Applications", *Journal of Scientific & Industrial Research*, Vol. 75, May 2016, pp. 285-288.
- 11. Dr S Selvaperumal, P Nedumal Pugazhenthi, "Closed loop performance investigation of various controllers based chopper fed DC drive in marine applications", *Indian Journal of Geo Marine Sciences*, ISSN: 0975-1033 (Online), ISSN: 0379-5136 (Print).
- 12. Dr S Selvaperumal, P Nedumal Pugazhenthi, "Modal based analysis of binary adders with fault tolerance using QCA in marine applications", *Indian Journal of Geo Marine Sciences*, ISSN: 0975-1033 (Online), ISSN: 0379-5136 (Print).
- 13. Dr 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*, Print ISSN: 1735-0654, Online ISSN 2676-4334.
- 14. Dr R Dhanasekaran, "Power Factor Improvement in Switched Reluctance Motor Drive", *Indian Journal of scientific and industrial research*, ISSN:0975-1084 (Online); 0022-4456 (Print).
- 15. Dr G S Naganathan, "Online Voltage Stability Margin Assessment and Enhancement in deregulated environment using Support Vector Regression", *Journal of electrical engineering*, ISSN 1582-4594.
- 16. Dr S Selvaperumal, "Evaluation of steady state voltage stability margin of a power system using search group algorithm", *Journal of Computational and Theoretical Nanoscience*, ISSN: 15461955, 15461963.
- 17. Dr S Selvaperumal, "Performance investigation of genetic algorithm based LCL resonant converter in marine applications", *Indian Journal of Geo Marine Sciences*, ISSN: 0975-1033 (Online), ISSN: 0379-5136 (Print).
- 18. Dr R Dhanasekaran, "An optimized approach for multi-user facial expression-based video summarization", *Biomedical Research-India*, ISSN: 0970-938X (Print) | 0976-1683 (Electronic).

19. Dr S Selvaperumal, "Reactive power compensation and harmonic mitigation through quasi Z source inverter for marine application", *Indian Journal of Geo-Marine Sciences*, ISSN: 0975-1033 (Online), ISSN: 0379-5136 (Print).

Conferences:

- 1. Dr. S Selvaperumal," Implementation of SHEPWM based cascaded H-Bridge Multilevel Inverter Using Newton Raphson Method", in *Proceedings of* ASDF-2017 International Conference on Advanced Innovations in Engineering and Technology, Ramanathapuram, Tamilnadu, India, 2017.
- 2. Dr. S Selvaperumal," PV cell based cascaded H-Bridge Multilevel Inverter Using SHEPWM", in *Proceedings of* ASDF-2017 International Conference on Advanced Innovations in Engineering and Technology, Ramanathapuram, Tamilnadu, India, 2017.
- 3. R Dhanasekaran," Investigation of diabetic retinopathy using GMM classifier", in *Proceedings of* International conference on advanced communication control and computing technologies (ICACCCT), Ramanathapuram, Tamilnadu, India, 2017.
- 4. R Dhanasekaran," A review on design considerations of implantable antennas", in *Proceedings of* International conference on advanced communication control and computing technologies (ICACCCT), Ramanathapuram, Tamilnadu, India, 2017.
- 5. R Dhanasekaran," Capacitance computation of arbitrarily shaped conducting bodies by spacecraft surface charging analysis", in *Proceedings of* International conference on advanced communication control and computing technologies (ICACCCT), Ramanathapuram, Tamilnadu, India, 2017.
- 6. R Dhanasekaran," Generating capability of modified switched reluctance machine for wind energy applications", in *Proceedings of* International conference on advanced communication control and computing technologies (ICACCCT), Ramanathapuram, Tamilnadu, India, 2017.
- 7. R Dhanasekaran," Effect of electromagnetic radiations on the functioning of medical devices from wireless local area networks—A review", in *Proceedings of* International conference on advanced communication control and computing technologies (ICACCCT), Ramanathapuram, Tamilnadu, India, 2017.
- 8. R Dhanasekaran, S Aiswariya, "Efficiency analysis of a new lossless passive snubber for electric vehicle applications", in *Proceedings of* International conference on advanced communication control and computing technologies (ICACCCT), Ramanathapuram, Tamilnadu, India, 2017.
- 9. R Dhanasekaran," Design and analysis of coupled inductor based high step-up DC-DC converter", in *Proceedings of* International conference on advanced communication control and computing technologies (ICACCCT), Ramanathapuram, Tamilnadu, India, 2017.
- 10. R Dhanasekaran, S.Muthulakshmi ," Improvement of speed control performance in BLDC motor using fuzzy PID controller", in *Proceedings of* International conference on advanced communication control and computing technologies (ICACCCT), Ramanathapuram, Tamilnadu, India, 2017.

- 11. R Dhanasekaran," Energy and Coverage Efficiency using straight line node deployment with data compression in wireless sensor network", in *Proceedings of* International conference on advanced communication control and computing technologies (ICACCCT), Ramanathapuram, Tamilnadu, India, 2017.
- 12. R Dhanasekaran, S.Muthulakshmi ," Simulation modelling and fault analysis of switched reluctance motor", in *Proceedings of* International conference on advanced communication control and computing technologies (ICACCCT), Ramanathapuram, Tamilnadu, India, 2017.
- 13. R Dhanasekaran, S.Muthulakshmi ," Intelligent controller based speed control of front end asymmetric converter fed switched reluctance motor", in *Proceedings of* International conference on advanced communication control and computing technologies (ICACCCT), Ramanathapuram, Tamilnadu, India, 2017.
- 14. Nagarajan R & Priyanka K ," Extending the lifetime of clustered industrial automation network", in *Proceedings of* 2016 International Conference on Advanced Communication Control and Computing Technologies (ICACCCT), Ramanathapuram, Tamilnadu, India.
- 15. Nagarajan R , Dhivya K & Prabhakar G "Autonomous lane parking system for nonholonomic vehicles", in *Proceedings of* 2016 International Conference on Advanced Communication Control and Computing Technologies (ICACCCT), Ramanathapuram, Tamilnadu, India.
- Dr S. Selvaperumal "Computation of Maximum Loadability Limit of a Power System Using Parallel Mutation Particle Swarm Optimization (PMPSO)", in *Proceedings of* IEEE - 2016 International Conference on Advanced Communication Control and Computing Technologies (ICACCCT), Ramanathapuram, Tamilnadu, India.
- 17. Dr S. Selvaperumal "A Stand-alone MATLAB Application for the Detection of Optic Disc and Macula", in *Proceedings of* IEEE 2016 International Conference on Advanced Communication Control and Computing Technologies (ICACCCT), Ramanathapuram, Tamilnadu, India.
- 18. Dr S. Selvaperumal, G. Prabhakar, "Modelling and Control of Ball and Beam System using PID Controller", in *Proceedings of* IEEE 2016 International Conference on Advanced Communication Control and Computing Technologies (ICACCCT), Ramanathapuram, Tamilnadu, India.
- 19. Dr S. Selvaperumal, G. Prabhakar, "Analysis on Soft Sensor Design in Simulink", in *Proceedings of* IEEE 2016 International Conference on Advanced Communication Control and Computing Technologies (ICACCCT), Ramanathapuram, Tamilnadu, India.

Book Publications:

- 1. Dr R. Dhanasekaran, "Health Monitoring of Electrical Machines" LAP LAMBERT, Academic Publishing, Germany, ISBN-13: 978-3-330-06948-0.
- Dr R. Dhanasekaran, "Industrial Electronics" Anuradha Publications, Kumbakonam, ISBN: 978-81-8472-164-5

- Dr R. Dhanasekaran, "Circuit Theory" Charulatha Publications, ISBN: 978-93-5265-520-5
- 4. Dr S. Selvaperumal, "HVDC Transmission Systems" Anuradha Publishers, Chennai, ISBN: 978-81-87721-20-8
- Dr S. Selvaperumal, "Stability and Performance Investigation of DCDC Resonant Converter" LAP LAMBERT, Academic Publishing, Germany, ISBN: 978-3-659-93187-1
- 6. Dr S. Selvaperumal, "DQ Model Based UPFC with Various Controllers" LAP LAMBERT, Academic Publishing, Germany, ISBN: 978-3-330-00768-0

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

	ACADEMIC YEAR (2016- 2017)							
Sl. No	Name of the student(s)	Date(s)	Name of the Event	Organized / Sponsored by	Prize / Participation			
1.	Manikandan.S			Rohini	Participation			
2.	Sivakumar.R	14.02.2017 to 15.02.2017	ICAIET7	College of Engineering & Technology	Participation			
3.	Yusuf Ansari		International	SBM	Participation			
4.	Ragul.S	2.03.2017	Conference on	College of	Participation			
5.	Vishnu Kapildev.R	to 3.03.2017	Advances in Engineering Science & College	Engineering & Technology	Participation			
6.	Harichandher.M		Science & College		Participation			

No of workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices:

On 17/09/2016, Our department Conducted a awareness program titled "**Plagiarism in journals and books**" from IPR cell of our department.

Number of research projects per teacher funded by government and nongovernment agencies

Name of the Project/ Endowments, Chairs	Name of the Principal Investigator/Co -investigator	Amount Sanctione d(In Rupees)	Duration of the project	Name of the Funding Agency	Type (Government/no n-Government)
Faculty					
Development					
Training	Dr R			Anna	
Programme	Dhanasekaran	30,000	1 week	University	Government
WORKGHOD	Dr R				
WORKSHOP	Dhanasekaran	15,000	2 days	IEEE	Non Government
Faculty					
Development					
Training	Dr R			Anna	
Programme	Dhanasekaran	30,000	1 week	University	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.S.Selvaperumal	2013	YES	YES	2013
2	Dr.R.Dhanasekaran	2007	YES	YES	2009

Minutes of the advisory committee meeting with the HOD and faculty memebers and the invited experts:

The meeting of HOD, Faculty members of EEE Department, Academic Experts, alumni, Parents and invitees from industries was held on 18.06.2016 at 2.00 P.M to draft the forthcoming academic activities of the Department.

The following members were present from outside.

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

S.No	Name of the Expert Member	Designation and Address	Role
1.	Mr. N.Sankaranand	Assistant Engineer, TNEB, Ramanathapuram	Alumni
2.	Mr. M. Baskarasethupathi	Deputy Senior Manager- Schemes Division, Tamilnadu Energy Development Agency (TEDA), Chennai-600006.	Alumni
3.	Mr. V.R.M.Muthukumar	Vice President, VRM Energy Consultancy Service Pvt. Ltd. Chennai-600024.	Employer
4.	Mrs. A.Sumathy	M/o Ms.R.Hema Kaviya, IV EEE, Ramanathapuram.	Parent
5.	Dr. S. Muralidharan	Professor, Mepco schlenk engineering college, Sivakasi.	Senior Academician