



**NATIONAL ENGINEERING COLLEGE**

*(An Autonomous Institution, Affiliated to Anna University, Chennai.)*

*K.R.Nagar, Kovilpatti - 628 503.*



**APRIL 2018**

**VOLUME NO 5**

**ISSUE 7**

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

*Dear Buddies,*

A baby born APRIL month will

"Be Attractive,

Determined to reach goals,

Realizing dreams and hopes."

Here, the newsletter born on this april also have these things but a little change that this will make the people to determine their goals and also by reading this you will realize your dreams and hopes. And many fulfilled dreams are also present.

"IMAGINE with your entire mind.

BELIEVE with all your heart.

ACHIEVE with all your might."

Remember that, if you fail to achieve your dreams. Change your ways not your principles. Trees change their leaves not roots. So, don't ever lose your hope.

"Try; try until your goal is reached."

**CONGRATS!!!** For all the winners and participants who achieved this month and best of luck for the future achievers.

"Enjoy reading!!!"

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**STAFF ACTIVITIES/PUBLICATIONS/ACHIEVEMENTS****ACTIVITIES:**

S.No.	Name of the Staff	Events/Guest Lecture	Topic/Event	Date	College/ Industry
1.	Mr. S. Sankara Kumar, AP(SG) /EEE	GIAN Course	Multi-Phase Drive and Generation systems for Advanced Industrial Applications	12-16 <sup>th</sup> February 2018	VNIT, Nagpur
2.	Mrs.K.Gowthami, AP / EEE Mr. F.Antony Jeffrey Vaz AP / EEE	Short term course	“Sensor Interfacing for IoT”	5.3.2018 - 11.3.2018	Thiyagaraja College of Engineering, Madurai

**INDUSTRIAL KNOW HOW:**

S.No.	Name of the Staff	Industry	Date
1.	Dr.M.Ravindran, Asso.Prof (SG)/EEE Mr. N.B.Prakash Asso. Prof /EEE	Associated Transformers Private Limited, Dindigul	13.2.2018 - 17.2.2018
2.	Mr, R.Muniraj AP (SG)/EEE Mr.M.Sivapalanirajan, AP / EEE	RAMCO Cements, Virudhunagar.	5.3.2018 - 9.3.2018

**PUBLICATIONS:**

- ✓ ***M. Bakruthen, M.Willjuice Iruthayarajan*** and A.Narayani, “Influence of Ultrasonic Waves on Viscosity of Edible Natural Esters Based Liquid Insulation”, IEEE Transactions on Dielectrics and Electrical Insulations (IEEE-TDEI), 2018. (Accepted for publications) - ***Impact Factor = 2.115.***
- ✓ ***M. Bakruthen, M.Willjuice Iruthayarajan*** and A.Narayani, “Statistical Failure Reliability Analysis on Edible and Non Edible Natural Esters Based Liquid Insulation for the Applications in High Voltage Transformers”, IEEE Transactions on Dielectrics and Electrical Insulations (IEEE-TDEI), 2018. (Accepted for publications) - ***Impact Factor = 2.115.***
- ✓ ***R. Muniraj and M.Willjuice Iruthayarajan***, “Tuning of Robust PID controller with filter for PLL system using HCLPSO algorithm”, International journal of pure and applied mathematics, Vol. 118, No. 16, 2018. Pp. 181-197. (***Scopus Indexed***).



## **GUEST LECTURES:**

***Mr.J.Sivadasan, AP(SG)/EEE***, delivered a guest lecture on “**IMPORTANCE OF ENGINEERING ETHICS**”, on 05.03.2018 in Government College of Engineering, Tirunelveli.



## **CONSULTANCY WORK:**

- ✓ ***Dr.L. Kalaivani, Prof/EEE and Dr.R.V.Maheswari, Prof/EEE*** have been completed their consultancy work titled, “**Design and Development of Adaptive PID Controller for Environmental Test Chamber**” for M/s CM Enviro systems, Bangalore client of Apex Design Center, worth Rs. 50,000/-.

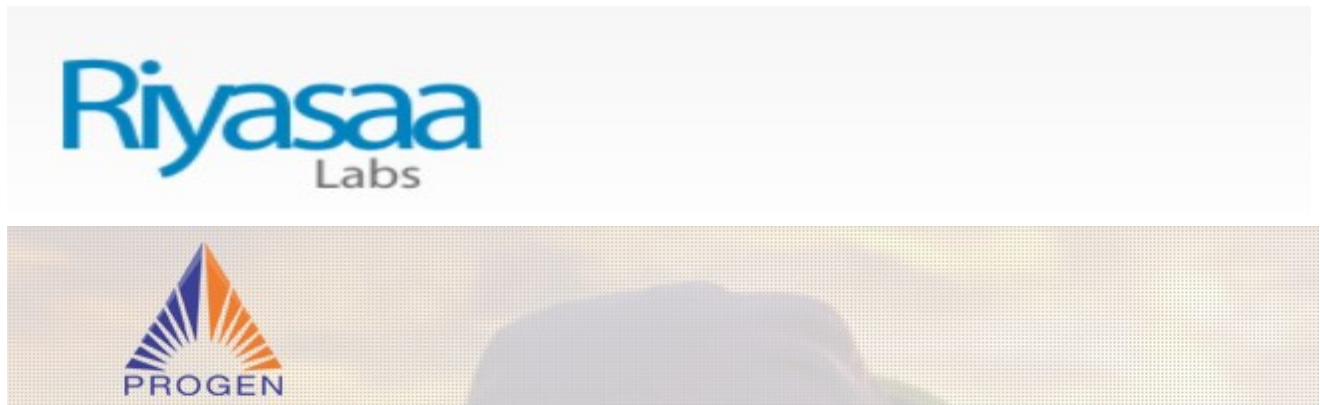
### **Details about the consultancy work:**

The objective of this consultancy work is to design and develop an adaptive PID controller for different operating conditions of environmental chambers. The work consists of the following modules.

1. *Initially the environmental chamber is to be modeled*
2. *The algorithm for PID controller tuning is to be developed.*
3. *The tuned PID controller has to be integrated with environmental chamber.*
4. *The results for different environmental condition are to be explored.*
5. *Adaptive PID controller in Environmental chamber is to be implemented and tested.*

## **INDUSTRY - INSTITUTION INTERACTION**

### **MEMORANDUM OF UNDERSTANDING**



*Signed a Memorandum of Understanding (MoU) with **Riyasaa Labs (RIL)** – (Centre for Innovation and an IoT consultant and **Progen Energy Solutions**, Coimbatore for 3 years periods.*

#### ***BENEFITS OF MoU:***

*The benefits of the collaboration is to have academic, research engineering and training interaction along with National Institute of Wind Energy, Kayathar to have fruitful outcomes in academic, research engineering and training areas.*

- ✓ *Guest Lectures*
- ✓ *Student Projects*
- ✓ *Internships*
- ✓ *Consultancy works*
- ✓ *Research and Development Projects*
- ✓ *Field Visits*
- ✓ *Training Programmes*

## DEPARTMENT ACTIVITIES

### EEE Association - ALTANZIA2K18

The Electrical and Electronics Engineering Association of department of EEE have conducted a two day National Level Inter College Technical Symposium ALTANZIA 2K18 on 13<sup>th</sup> and 14<sup>th</sup> March, 2018. The inaugural function was held at 10.00 am in college Auditorium. The dignitaries on the dais were **Dr.Kn.K.S.K.Chockalingam, Director, Dr.S.Shanmugavel, Principal, Dr.M.Willjuice Iruthayarajan, HOD/EEE and Mr.N.B.Prakash, Associate Professor, EEE.** The welcome address was given by Mr.P.Saravana Kumar, Secretary, EEE Association. The preamble of the symposium ALTANZIA18 was given by Mr.N.B.Prakash, coordinator of the program. Presidential Address was given by Dr.S.Shanmugavel, Principal, NEC. Introduction to Chief Guest was briefed by Ms.S.Suriya, Program Coordinator, EEE Association.

The chief guest was **Mr. M Madasamy, Senior Section Engineer, Southern Railways, Chennai.** He delivered the Inaugural Address. He gave a valuable speech and motivated the student to set their goals. Dr.S.Shanmugavel, Principal, National Engineering College presented a Memento to the chief guest. The inaugural function ended with a video launch. Around 120 students from various colleges like **MepcoSchlenk Engineering College, Velammal College of Engineering, Dr. SivanthiAditanar College of Engineering, SreeSowdambika College of Engineering, Ramco Institute of Technology, St. Mother Theresa Engineering College, Unnamalai Institute of Technology, and Chandy College of Engineering** participated in the symposium.



**On 13/3/2018, the following events were conducted.**

1. Paper Stellar
2. High Voltage Workshop
3. Circuit Untangle
4. MATLAB Programming (Lab Rat Race)
5. ThamizhoduVilayadu

***On 14/03/2017, the following events were conducted.***

1. Arduino Workshop
2. Relay Workshop
3. Roaster Quiz
4. Electrical Premier League
5. Treasure Trove
6. Pirates of Altanzia

### **PAPER STELLAR**

Paper Stellar was held on 13/3/18 in Research Simulation Lab and New Computer Lab from 10.30 am to 02.00 pm. The judges were ***Mr.G.Kannayeram, Assistant Professor (Sr.Grade), Dr.S.Kanagalakshmi, Associate Professor and Mr. M.P.E.Rajamani, Assistant Professor(Sr.Grade) and Ms.A.Tamilarasi, Assistant Professor.*** 30 students from various Engineering colleges attended the paper stellar. The student volunteers who organized the event are ShameemaFarhana, Krishnaveni, Jebshikai, SinduMuhila, Mythili, Sindhu, Dhanushya, Sarjun, Sathish, Selvakumar, Meenachi and Ranjith King Jimson. Finally the First goes to V.Anushiya from Velammal College of Engineering and Technology and Second prize are shared by two students P.TamilSelvan from Francis Xavier Engineering College and K.Atchaya from MepcoSchlenk Engineering College.



### **HIGH VOLTAGE WORKSHOP**

High Voltage Workshop was held on 13/03/18 in High Voltage Lab from 10 : 30 am to 02 : 00 pm the resource persons for the laboratory session are ***Mr.M.Bakruteen, Assistant Professor and Mr.K.Kumar, Assistant Professor.*** The volunteers who organised the workshop are Praveen Kumar, Pavithran, Nithyanand, AniNithisha, PoornaPushkala and Amarnath. 85 students from various Engineering colleges attended the High Voltage Workshop.





### CIRCUIT UNTANGLE

Circuit Debugging was held on 13/03/18 in Applied Electronics Lab from 11 : 00 am to 12 : 00 pm. The supervisors for the circuit debugging session are **Dr.M.Ravindran, Associate Professor (SG), Mr.K.Kumar, Assistant Professor**. The student volunteers who organized the circuit debugging are Hariharan, Ajithkumar, Sorna Kumar, .divya, SubhaRaghavan, LogeshwaraBalan and Ajmal. For this competition about 15 student participants from various colleges participated in the circuit untangle workshop. The first prize goes to J.SyedYosuf and K.ManoBala from Sethu Institute of Technology and the second prize goes to S.Venkada Krishnan and R.Raghul from Kamaraj Engineering College.

### MAT RAT RACE

MATLAB was held on 13/03/18 in Old Computer Lab from 2 : 00 pm to 3 : 00 pm the judges for the mat rat race are **Mr.M.SivaPalanirajan, Assistant Professor and Ms.E.Anitha, Assistant Professor**. The student volunteers assisting the lab are BalaAbirami, Vijay, Rajesh, Aravindhana, NithyaSree, Arun Kumar, Sindhuja and Saranya. 75 students from various colleges attended the MAT RAT RACE competition. Winners of first and second prizes are S.Anand, I.Imran, V.Karthikeyan from Sethu Institute of Technology and Aarthy and Priya from AAA College of Engineering and Technology.

### THAMIZHODU VILAYADU

Thamizhodu Vilayadu was held on 13/03/18 in Seminar Hall from 3 : 00 pm to 5 : 00 pm the judges for the competition are **Mrs.K.Gowthami, Assistant Professor and Mrs.S.Divya, Assistant Professor**. The student volunteers who organized the event are ShunmugaSundar, Prabhu, Thangabalamurugan, Sandhya Lakshmi, Pavithra, Mahalakshmi, Shanmugavel and Aarthy Lakshmi. More than 95 students from various colleges participated in the Thamizhodu Vilayadu event and the Winners for this events are S.Venkada Krishnan, R.Raghul from Kamaraj College of Engineering and J.Balaji and S.Yogesh from Sethu Institute of Technology.





### ARDUINO WORKSHOP

Arduino Workshop was held on 14/03/18 in Microprocessor & Microcontroller Lab from 10 : 00 am to 2 : 00 pm. The resource person for the workshop are **Mr.B.Venkatasamy, Assistant Professor and Mr.F.Antony Jeffery Vaz, Assistant Professor**. The student volunteers who organised the session are Prakash, Prabhu, Viswanath, Premsha, Madhumitha, Vinitha and Naveen Kumar. 21 participants from various colleges such as Ramco Institute of Technology, St. Mother Theresa Engineering College and Unnamalai Institute of Technology has attended the workshop.



### RELAY WORKSHOP

Relay Workshop was held on 14/03/18 in Electrical Machines Lab from 10 : 00 am to 2 : 00 pm the resource person for the workshop are **Mr.S.Sankara Kumar, Assistant Professor (SG) and Mr. T. Sivakumar, Assistant Professor**. The student volunteers who organised the lab are Meenakshi Meyyammai, Joel Joshuva, Manikanda Prabhu, Rama Lakshmi, Samivel Subhash, Murugan and Amritha. Totally 7 participants from Francis Xavier Engineering College, AAA College of Engineering and Kamaraj College of Engineering.



### ROASTER QUIZ

Roaster Quiz was held on 14/03/18 in EEE Hall 5 from 10 : 00 am to 11 : 00 am the judges for the quiz competition are **Mr.P.SamuelPakianathan, Assistant Professor** and **Mr. B.Vigneshwaran, Assistant Professor**. The student volunteers who organized the quiz are PonSharmila, Sathyabama, Anitha, Muthurm, Subbiah Kumar and Nivetha. 10 students from various colleges attended the raster quiz competition and the first prize goes to J.LeelaBaskaraSelvi from ST.Mother Theresa Engineering College and the second prize goes to L.J.Sarvanan and S.MuhammedAbraruhaq from Francis Xavier Engineering College.

### ELECTRICAL PREMIER LEAGUE

Electrical Premier League (EPL) was held on 14/03/18 in in EEE Hall 5 from 12:00 pm to 1:30 pm the judges for the competition **Mr.M.Gengaraj, Assistant Professor** and **Ms.J.Vinotha, Assistant Professor**. The student volunteers who organized the EPL are Abdul Kader Riyaz, Ashik, Maheshwari, Sankari, Rishika, Subhash, Siva Sorna Ram and Nivetha. About 15 students from other colleges attended the league and the winners are J.Gayathri, S.Sahithya and C.Maheswari from Ramco Institute of Technology.

### BEST MANAGER

Best Manager was held on 14/03/18 in Seminar Hall from 2 : 30 am to 4 : 00 pm the judges for this event are **Mrs.G.Shanmugalakshmi, Assistant Professor** and **Ms.S. Balakiruthiha, Assistant Professor**. The student volunteers who organized the best manager are Suriya, ArunJeyakumar, ReshmaPriyadarshini, Ranjitha, Neelakandan, Mohamed Riyaz and Abinaya. 16 student participants from various colleges eagerly participated the best manager competition. The winners are J.LeelaBaskaraSelvi from ST.Mother Theresa Engineering College and S.Selvam from Unnamalai Institute of Technology.



## TREASURE HUNT

Treasure Hunt was held on 14/03/18 in Applied Electronics Lab from 11 : 00 am to 12 : 00 pm. The judges for this event are **Mr.S.Senthilkumar, Assistant Professor** and **Ms.O.Supriya, Assistant Professor**. The student volunteers who organized the treasure hunt are Abdul Hameed Shagric, Aswanth Navamani, Deepa, Srividya, Muniraj, Nala Selva Prakash and Casmel Leo. About 11 students attended the event and they eagerly searched the college for treasure with the clues hidden in various places present in the college.

The valedictory function was conducted in EEE Seminar Hall at 4.00 pm. Many external participants have given valuable feedbacks. Then the certificates and prizes were distributed to the winners in all the events by **Dr.M.Willjuice Iruthayarajan, Head of the Department** and **Mr.N.B.Prakash, Associate Professor**. Then vote of thanks was given by **Mr.S.ArunJeyakumar, Treasurer, EEE Association**. The function was concluded with the National Anthem.





## SPECIAL INTEREST GROUP – CONTROL AND INSTRUMENTATION

### Valedictory function report

EEE department Control and Instrumentation - Special Interest Group (SIG) organized a short term course on the topic “**TIME RESPONSE ANALYSIS OF LINEAR TIME INVARIANT SYSTEM IN LABVIEW USING ELVIS II+**”. This course was coordinated by **Mr.Muniraj.R AP (S.G)/EEE** and **Mr.Sivapalanirajan.M AP/EEE**. Totally 12 Number of students from prefinal year EEE (both A&B) attended the program during (29/07/17 to 20/01/18) odd Saturdays of this academic year in Control and Instrumentation laboratory, EEE department have been completed successfully.



The Valedictory function was arranged in the EEE dept. on 13/02/18 (4.30 – 5.15PM) with a welcome note by M.Sivapalanirajan in the presence of our honorable Principal Dr.S.Shanmugavel and our beloved HOD Dr.M.Willjuice Iruthayarajan. The course coordinator R.Muniraj explained the detailed report from 2014 till now in LABVIEW based short term courses and presented the entire activities of this course.

S.No.	Date	List of Experiments	Description
1	29/07/17	Study of arithmetic & Boolean function using LABVIEW	Basic operations for mathematical representation & logical decision
2	05/08/17	Study of Iteration loop : a. While loop b. For loop	Iteration loop for continuous monitoring of parameters
3	08/08/17	Develop the mathematical model of mechanical and electrical system	Mathematical representation of system to be controlled
4	10/08/17 & 19/08/17	a. Time response analysis of first order system for standard input signals. b. Time response analysis of second order	Simple system models and their response analysis for handling complex systems

		system for unit step input( $\zeta=1$ , $\zeta>1$ , $0<\zeta<1$ )	
5	02/09/17	Stability analysis of linear system using ROOT LOCUS technique	Stability of developed system under closed loop condition
6	16/12/17	Controller design in labview using ELVIS II+ for second order system	Design of various controller for LTI system
7	30/12/17	Implementation of real time control using ELVIS II+	Implementation of control system for temperature control unit
8	06/01/18	Tutorial session	Hands on training on modeling, control and performance analysis for benchmark system
9	20/01/18	Determine the time domain specification for benchmark SISO model using labview	

He also highlighted the IEEE conference presented on the topic “*TIME RESPONSE ANALYSIS OF SISO SYSTEM WITH A CHOICE OF CONTROLLER CONFIGURATION IN LABVIEW PLATFORM*” by one of the candidate K.Kanika in JCT institute of technology, Coimbatore. He mentioned the forth coming program as frequency response based analysis in Labview with updated content, ensure quality learning and good programming skill.

HOD delivered the motivational speech for the students to ensure active participation of SIG members in various areas of control domain. He shared the significance of using LABVIEW programming and ELVIS II+ hardware interfacing tool for their final projects, research and development activities of the control domain.



Principal Dr.S.Shanmugavel delivered the Valedictory address for the students. He insisted them to develop the fundamental concepts of the subject which will be the way to handle the challenging projects. He also encouraged the faculties and students to upgrade their practical skills in simulation software packages like LabVIEW and MATLAB. Finally, our Principal felicitated the participants with the



certificates. S.Abisek (III EEE A) delivered the vote of thanks for all who provide their valuable support for the successful completion of this event.

## **Design of Electronic Circuits Using PIC Microcontroller and FPGA based on Real Time Applications- Embedded System**

The course was started during 6<sup>th</sup> January 2018. Around 28 students were enrolled for this course. The course was handled by *Mrs.K.Gowthami, AP/EEE* and *Mrs.A.Tamilarasi, AP/EEE*. The first day **06.01.2018** session was started with an introduction of embedded system and on the same day they have hands on training on how to use proteus software and designed simple applications without microcontroller. On 20<sup>th</sup> January 2018, the session was about hands on training on PIC microcontroller with proteus. From this session, they have learned to write embedded c coding in MPLAB and how to control an external device using PIC microcontroller. They have interfaced LEDs with PIC microcontroller and controlled them in alternating order. First it was implemented in proteus then it was interfaced with PIC microcontroller. From the session on 3<sup>rd</sup> February 2018, they have learned to interface four seven segment displays with PIC microcontroller and the same was implemented in proteus software. An introduction to Internet of Things (IoT) and its applications overview have been presented on 17.02.2018. Then, the session was continued with its programming using Python language on **March 3<sup>rd</sup> 2018**. The hands-on training was given to students to enhance their programming knowledge on the same day.



## HANDS ON TRAINING IN ARDUINO

EEE department Embedded System Special Interest Group (SIG) conducted a short term training program in Arduino on the topic “**A HANDS ON TRAINING IN ARDUINO**” for III year students of EEE department. The workshop has been conducted on every odd Saturdays of the academic year of 2017-18. The course was started from 29/07/2017 as a value added course in the Microprocessor and Microcontroller laboratory of EEE department. Totally **50 number of students** has participated in the workshop. Mr. S. Prabhu Final year EEE contributed as a student coordinator throughout the course.

### **Session 1 [29/07/2017]**

Mr. B.Venkatasamy AP/EEE and Mr. F. Antony Jeffrey Vaz handled the first session with introduction to Embedded Systems. They explained the hardware structure of Arduino Uno and all the Arduino boards compatible with it. They extended the session with the basic programming concept in C programming and some basic Arduino interfacing such as LED and LCD interfacing

### **Session 2 [19.08.2017]**

Mr. F. Antony Jeffrey Vaz handled the second session about the analog and digital interfacing and its LCD interfacing. In the next session of the day is continued by Mr. B.Venkatasamy and he explained about the motor driver controller L293D. Then he gave hands on training on the interfacing of the DC motor using L293D for forward/reverse operation.



### **Session 3 [09.09.2017]**

Mr. S.Prabhu handled the session about the GSM interfacing with Arduino. He explained about the AT commands and programming concepts for the sending/receiving of SMS and sending / receiving of CALL using GSM module. A hands on session was given to the participants for controlling electrical appliances by mobile using SMS/CALL.

**Session 4 [16.09.2017]**

Mr. B.Venkatasamy AP/EEE conducted the session and he gave the explanation about the principle and operation of ultrasonic sensor module. He demonstrated the interfacing the ultrasonic sensor module with Arduino for distance measurement. The session was continued by Mr. S.Prabhu and he explained about the interfacing of stepper motor and Servo motor with Arduino.

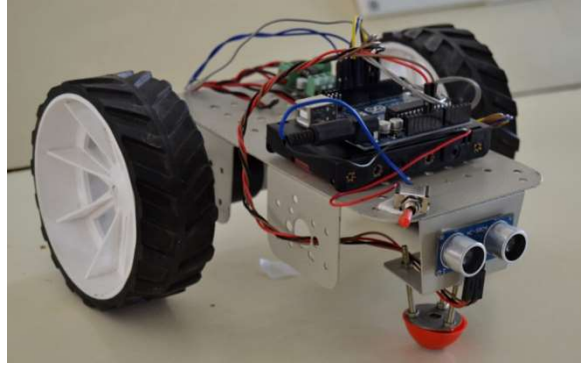
**Session 5 [30.12.2017]**

As Mr. Prabhu was trained in Android programming, he made his presence for guiding students in developing an “android apk” which connects with Arduino board with Bluetooth interface which can be used in any manually controlled remote system, which can be very useful in Home automation systems. At the end of session, all the participants developed the “Android-Bluetooth App” and they interfaced with the Arduino to control an application by hands on.

**Session 6 [06.01.2018]**

Mr.B.Venkatasamy and Mr. F. Antony Jeffrey Vaz handled the session of the workshop and they guided the students to construct a line follower robot and obstacle avoiding robot which works with two IR sensors as well as ultrasonic module and two motors as actuators and Arduino as its controller.

All students logically coded their own program for the projects. Mr. Prabhu guided the participants to write the program and they finally demonstrated the line following robots.

**Session 7 [20.01.2018]**

Mr.S.Prabhu Handled the session and he gave an introduction about the basics of IOT platform and the various modules which have been used for IOT based application in current trend. The students are practiced with the Node MUC Wi-Fi module for simple IOT application. The students had a hands on session for controlling a simple home application by mobile using IOT and Node MCU module.



## MINI PROJECT FORUM – EPROX '18

A Project expo “**EPROX '18**” has been organized by the Mini Project Forum of EEE department on **17<sup>th</sup> March 2018**. The aim of this program is to enhance the practical skill of the student and to do real time application oriented projects using simple electronic components as well as microcontrollers. In this regard, many practical sessions were conducted for the second and third year EEE students during odd Saturdays of the semester by the coordinators Mr.B.Venkatasamy, AP/EEE, Ms. K.Gowthami, AP/EEE and Mr. F.Antony Jeffery Vaz, AP/EEE and the student volunteers Mr.S.Prabhu, Final EEE, Mr.P.R.Prakash, Final EEE, Mr. B.MathanaGopal, Final EEE and R.Narain Krishna, Final EEE. **41 Second Year, 68 Third Year and 3 Final Year students** have actively participated in the Expo. The students have demonstrated their projects to our Principal Dr.S.Shanmugavel, Head of the Department Dr.M.Willjuice Iruthayarajan, Staff members and our department Students. A review committee has been framed for judging the projects. The following students have participated and bagged prizes in the expo.

S.No	Project Title	Students Name	Class	Participation / Prize
1.	Home Automation Surveillance	ShunmugaSundaram K	2 <sup>nd</sup> Year EEE	I Prize
		Naveen Kumar A.G	2 <sup>nd</sup> Year EEE	I Prize
		Ranjith King Jimmson M	2 <sup>nd</sup> Year EEE	I Prize
		Sivasorna Ram R	2 <sup>nd</sup> Year EEE	I Prize
2.	Self Balancing Robot	Premsha S	3 <sup>rd</sup> Year EEE	II Prize
		Arun Kumar I	3 <sup>rd</sup> Year EEE	II Prize
		Mohammed amjathKani M	3 <sup>rd</sup> Year EEE	II Prize
		Nagaarjun K.N	3 <sup>rd</sup> Year EEE	II Prize
		Viswanath G	3 <sup>rd</sup> Year EEE	II Prize
3.	Solar Tracker & Heart Beat Sensor	Divya D.R	3 <sup>rd</sup> Year EEE	III Prize
AniNithusha M		3 <sup>rd</sup> Year EEE	III Prize	
4.		Aasha A	3 <sup>rd</sup> Year EEE	III Prize
Anandhi R		3 <sup>rd</sup> Year EEE	III Prize	
JebishaGnanadeepam I		3 <sup>rd</sup> Year EEE	III Prize	
5.	Voice Controlled Robot	Gandhi Muthu K	2 <sup>nd</sup> Year EEE	III Prize
6.	Digital Soil Moisture Meter	Sankari J	3 <sup>rd</sup> Year EEE	Participation
		Santhiyalakshmi K	3 <sup>rd</sup> Year EEE	Participation
		SreevidyaChidambaraVadivoo	3 <sup>rd</sup> Year EEE	Participation
7.	Smart Theft Detector	Anitha M	3 <sup>rd</sup> Year EEE	Participation
		Pavithra R	3 <sup>rd</sup> Year EEE	Participation
		Ranjitha R.A	3 <sup>rd</sup> Year EEE	Participation



		Rishika N	3 <sup>rd</sup> Year EEE	Participation
8.	Automatic Door Opener & Smart Street Light System	ChermaJeya K	2 <sup>nd</sup> Year EEE	Participation
		EswariPrabha P	2 <sup>nd</sup> Year EEE	Participation
		Saranya S	2 <sup>nd</sup> Year EEE	Participation
		LeelaNivashini M	2 <sup>nd</sup> Year EEE	Participation
		Madhmitha K	2 <sup>nd</sup> Year EEE	Participation
9.	Gas Leakage Detector & Automatic Railway Gate Control	MahaSweetha P	3 <sup>rd</sup> Year EEE	Participation
Shibana C		3 <sup>rd</sup> Year EEE	Participation	
10.		Shenbaga Devi K	3 <sup>rd</sup> Year EEE	Participation
Sakthi K.N		3 <sup>rd</sup> Year EEE	Participation	
11.	Smart Operating System in Hotel	Suganthi M	3 <sup>rd</sup> Year EEE	Participation
		Gowsalya M	3 <sup>rd</sup> Year EEE	Participation
		Nandhini R	3 <sup>rd</sup> Year EEE	Participation
		Navitha N	3 <sup>rd</sup> Year EEE	Participation
12.	Gas Leakage Detector	Rathna S	3 <sup>rd</sup> Year EEE	Participation
		SathyaGomathy P	3 <sup>rd</sup> Year EEE	Participation
		Uma B	3 <sup>rd</sup> Year EEE	Participation
		Sindhuga G	3 <sup>rd</sup> Year EEE	Participation
13.	Automatic Solar Tracker	Ramesh Moorthi I	3 <sup>rd</sup> Year EEE	Participation
		Saravana Kumar S	3 <sup>rd</sup> Year EEE	Participation
		PrasanaVenketeshanN	3 <sup>rd</sup> Year EEE	Participation
14.	Voice controlling Home Appliances	Ariharan S	3 <sup>rd</sup> Year EEE	Participation
		Kartheeswaran M	3 <sup>rd</sup> Year EEE	Participation
15.	Automation Irrigation System & Home Appliances Automation	ShunmugaSundaram K	2 <sup>nd</sup> Year EEE	Participation
Naveen Kumar A.G		2 <sup>nd</sup> Year EEE	Participation	
16.		Ranjith King Jimmson M	2 <sup>nd</sup> Year EEE	Participation
		Sivasorna Ram R	2 <sup>nd</sup> Year EEE	Participation
17.	Gesture Controlled Robot	ShunmugaSundaram K	2 <sup>nd</sup> Year EEE	Participation
		Naveen Kumar A.G	2 <sup>nd</sup> Year EEE	Participation
		Ranjith King Jimmson M	2 <sup>nd</sup> Year EEE	Participation
		Sivasorna Ram R	2 <sup>nd</sup> Year EEE	Participation
18.	Home security Alarm using PIR	ArockiaRanjith Kumar S	2 <sup>nd</sup> Year EEE	Participation
		Arun G	2 <sup>nd</sup> Year EEE	Participation
		Pio P	2 <sup>nd</sup> Year EEE	Participation
		Gowthamaraj M	2 <sup>nd</sup> Year EEE	Participation
19.	Obstacle Avoidance Robot	Rama Chandra Bharathi P	4 <sup>th</sup> Year EEE	Participation
		Rajasree P	4 <sup>th</sup> Year EEE	Participation
		Nalini M	4 <sup>th</sup> Year EEE	Participation
20.	Smart Dustbin	Jeniba K.R	3 <sup>rd</sup> Year EEE	Participation
		Kayalvizhi T	3 <sup>rd</sup> Year EEE	Participation

		Mahibala A	3 <sup>rd</sup> Year EEE	Participation
		Nithiyasree A	3 <sup>rd</sup> Year EEE	Participation
21.	Smart Headlight	Radha B	3 <sup>rd</sup> Year EEE	Participation
		Priyadharshini P	3 <sup>rd</sup> Year EEE	Participation
		Sugasini M	3 <sup>rd</sup> Year EEE	Participation
		Vishnupriya K	3 <sup>rd</sup> Year EEE	Participation
22.	Touch-less Door Bell Alarm	Seetha K	3 <sup>rd</sup> Year EEE	Participation
		Sethanadevi K	3 <sup>rd</sup> Year EEE	Participation
		Soumiya P.T	3 <sup>rd</sup> Year EEE	Participation
23.	Line Following Robot	Mohemednias G	2 <sup>nd</sup> Year EEE	Participation
		SamivelSubash S	2 <sup>nd</sup> Year EEE	Participation
24.	Obstacle Avoidance Robot	JothiBasu M	3 <sup>rd</sup> Year EEE	Participation
		Surendaran B	3 <sup>rd</sup> Year EEE	Participation
		Selva Kumar T	3 <sup>rd</sup> Year EEE	Participation
		Sathish Kumar M	3 <sup>rd</sup> Year EEE	Participation
		Nithyanandan B	3 <sup>rd</sup> Year EEE	Participation
25.	Automatic Shed using Rain Sensor	Kavitha P	3 <sup>rd</sup> Year EEE	Participation
		Lakshmi Brindha S	3 <sup>rd</sup> Year EEE	Participation
		Muthuvarathalakshmi M	3 <sup>rd</sup> Year EEE	Participation
		Reshmapriyadarshini S	3 <sup>rd</sup> Year EEE	Participation
26.	Car Speed Detector	Sheeba J	2 <sup>nd</sup> Year EEE	Participation
		Malini L	2 <sup>nd</sup> Year EEE	Participation
		PriyaDarshini A	2 <sup>nd</sup> Year EEE	Participation
		Meenakshi S	2 <sup>nd</sup> Year EEE	Participation
27.	Automatic Head Light Dimmer	Nivetha N	2 <sup>nd</sup> Year EEE	Participation
		Pavithra S	2 <sup>nd</sup> Year EEE	Participation
		Meenakshi A	2 <sup>nd</sup> Year EEE	Participation
		Ramalakshmi V	2 <sup>nd</sup> Year EEE	Participation
28.	Ultrasonic Blind Walking Stick	Nivetha M	2 <sup>nd</sup> Year EEE	Participation
		Sonia M	2 <sup>nd</sup> Year EEE	Participation
		Supriya S	2 <sup>nd</sup> Year EEE	Participation
29.	Heart Beat Monitoring System	JothiMeena A	3 <sup>rd</sup> Year EEE	Participation
		Rama Lakshmi S	3 <sup>rd</sup> Year EEE	Participation
		Padmavathi R	3 <sup>rd</sup> Year EEE	Participation
		Selva Lakshmi S	3 <sup>rd</sup> Year EEE	Participation
		SindhuMuhila S	3 <sup>rd</sup> Year EEE	Participation
30.	Avoid Vehicle Collision	Aarthy B	2 <sup>nd</sup> Year EEE	Participation
		Abirami M	2 <sup>nd</sup> Year EEE	Participation

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I PRIZE *Raspberry Pi 3 Model B*

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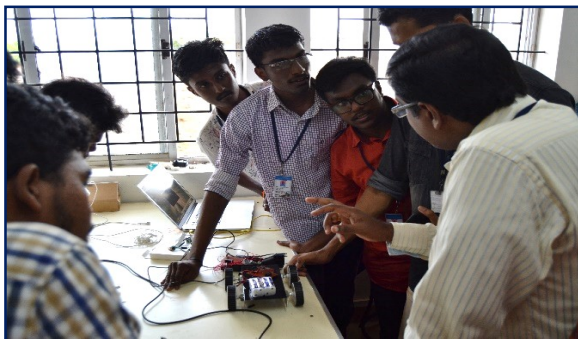
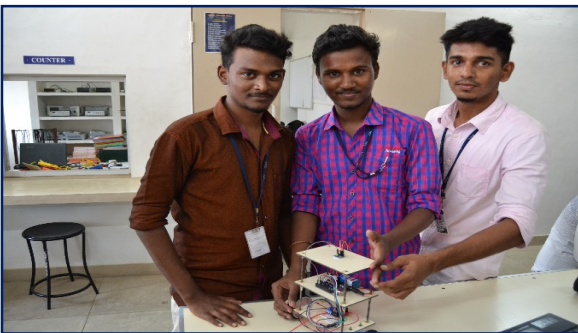
II PRIZE *Node MCU Wi-Fi Development Board*

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III PRIZE *Bluetooth Module*

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### GALLERY |EPROX '18|



**ARTICLE BY ALUMNI**  
**CAREER INFORMATION TO THE STUDENTS**  
**(ELECTRONICS/EMBEDDED/SOFTWARE/NETWORKING)**

*Ms. R. Bavithra (2017 Batch EEE)*  
*Electrical Engineer (Modeling Engineer)*  
*Research and Development Department*  
*Fiat Chrysler Engineering India Pvt Ltd.*

### **Electronics Courses**

Electronics has become the most preferred stream for engineers in India. This is because of the various job opportunities that are available in the field.

### **Job Opportunities in the electronics field**

- Embedded Application Software developer
- Embedded systems engineer
- Firmware developer
- PCB Designer
- System architecture designer
- Techno commercial engineer
- QA testers
- Application engineer
- Project Engineer
- Project Lead
- Project Head

### **Educational Qualification required in the electronics field**

If you take electronics field there are so many courses available in the market. But you have to choose the ones that are in your domain of interest.

- ARDUINO
- PIC
- ARM
- RASPBERRY PI
- IOT
- MATLAB
- VLSI

### **Skill set required in the electronics field**

- Logical thinking
- Excellent domain knowledge
- Problem solving skills
- Programming skills



- Focus on minute details
- Ability to learn and understand new technologies
- Communication skills
- Working knowledge of Engines
- Time management
- Understanding of business operations
- Leadership and team management skills (for senior level professionals)

### **What will be the nature of job for electronics professional?**

- Design, Develop software in Embedded C & MATLAB Models for Engine System features
- Perform the Software Requirement Analysis
- Unit Test the software on hardware (ECU's) using debuggers and testing tools
- Coordinate with Process Partners and understand their requirements in software design.
- To ensure the new product programs follow specified quality standards and delivered on time.
- Regularly review the product progress and discuss with the team on the action items.
- Coordinate with the technical design and test aspects of new product programs with suppliers and customers to ensure proper execution.
- Designs, validates, and ensures production is smooth.
- Provides and maintains test reports and proper design documentation
- Ensures compliance of designs with applicable regulatory standards

### **What will be the package for a person in electronics field?**

In India, the salary range in this field starts from 3 lakhs per annum to 10 lakhs per annum. This is based on combination of data taken from sources like payscale website, indeed and glassdoor website.

### **Software Courses**

Software field is always the sought after subject by most of the students. However in recent times the craze for this domain has come down. This is mainly due to high fluctuations in the software job market. However software still is the leading job provider. Being in the digital world we cannot ignore software.

In fact, Software has become part of our daily life be it your smart phone, traveling, ticket booking, food ordering, social media and so on. For all this to happen, some where someone has written codes to make our daily life simpler and easier. So you can be rest assured that software field will always be there and you don't have to be worried about it.

### **Job Opportunities in the software field**

- Junior Developer
- Junior Software Engineer
- Software Engineer
- Software developer
- Programmer analyst
- Software Testing Officer
- Quality Testing Officer



Even though the designations change the roles and responsibilities remains the same. As usual there will be entry level, middle level, top level and management level roles in every organization.

### **Educational Qualification required in the Software field**

- Mobile Application Development
- Web development
- Software Testing-Automation Tolls
- Java
- J2EE
- PHP
- PHP Framework
- Python
- UI/UX Development Frameworks (HTML, CSS, Bootstrap etc.)
- Digital Marketing (Digital Technology Platforms)
- ASP.Net
- ASP.Net MVC
- C#.Net
- C/C++

The above mentioned courses are more relevant for today's market. Some courses are complimentary whereas some are totally for a different platform. You should choose one platform and keep upgrading in that particular platform to become an expert.

### **Skill set required in the Software field**

- Logical thinking
- Problem solving skills
- Programming skills
- Focus on minute details
- Ability to learn and understand new technologies
- Communication skills
- Thorough Understanding of Computer Architecture, Operating Systems, and Data Structures
- Ability to write detailed technical specifications and documentation
- Understanding of business operations
- Leadership and team management skills (for senior level professionals)

### **What will be the nature of job for software professional?**

- Execution of software development life cycle (SDLC)
- Write well-designed, testable code
- To determine operational feasibility
- Develops software solutions by studying information needs; conferring with users; studying systems flow, data usage, and work processes; investigating problem areas; following the software development lifecycle.

- Integrate all software components into one fully functional software system
- Develop software verification plans and quality assurance procedures
- Troubleshoot, debug and upgrade existing systems
- Updates job knowledge by studying state-of-the-art development tools, programming techniques, and computing equipment; participating in educational opportunities; reading professional publications; maintaining personal networks; participating in professional organizations.
- Determines operational feasibility by evaluating analysis, problem definition, requirements, solution development, and proposed solutions.
- Protects operations by keeping information confidential.

### **What will be the package for a person in software field?**

In India, the salary range in the software field starts from 3 lakhs per annum to 12 lakhs per annum. This is based on combination of data taken from sources like payscale website, indeed and glassdoor website.

### **Networking Courses**

If you take Networking, there are so many courses available. But again if you are someone who does not know where to start, it is always advisable to start from the basics.

### **Job Opportunities in the networking field**

- Network Administrator
- Network Engineer
- Network Analyst
- Network Technician
- System Administrator
- System Security Specialist
- Ethical Hacking Expert
- Computer Networking Instructor
- Database administrator
- Web Master
- Technical Support Engineer

### **Educational Qualification required in the Networking field**

- CCNA certified by CISCO
- CCNP certified by CISCO
- CCIE certified by CISCO
- CEH

- MCSA certified by Microsoft
- MCSE certified by Microsoft
- LINUX Part 1
- LINUX Part 2

The above mentioned courses will be sufficient for a person to enter the networking field. There are different courses for different levels. Some certifications act as an entry point to do the next level certification. For example, you cannot do CCNP without being certified as a CCNA expert. Every certification mentioned above is important to go up the corporate ladder.

### **Skill set required in the Networking field**

- Knowledge and hands on experience in selection, design, implementation and support of enterprise network systems and diagnostic tools.
- Good communication skills both oral and written.
- Wireless architecture and WLAN switching technologies knowledge will be required.
- You should have the knowledge to work on various trouble shooting tools relating to networking and security.
- Strong problem-solving skills and time management
- Leadership and team management skills (for senior level professionals)

### **What will be the nature of job for a networking specialist?**

Given below are some of the basic tasks which are expected from a network/system administrator:

- Network set up and configuration both hardware and software
- Network media and connections installation and configuration
- Enabling user connectivity in the network
- Creation, edition, deletion and assigning of rights to the users in the network
- Maintain a proper mechanism to back up the entire system data and program data
- Manage all user accounts, server storage, cloud storage, passwords and so on
- Regular check-up and protection of computers from virus attacks
- Train the users on how to use the network
- E-mail management of the company

### **What will be the package for a person in networking field?**

In India, the salary range in the networking field starts from 2.5 lakhs per annum to 8 lakhs per annum. This is based on combination of data taken from sources like payscale website, indeed and glass door website.

**Website Useful in Searching Jobs**

- Naukri (<https://www.naukri.com/>)
- Instahyre(<https://www.instahyre.com/>)
- Cutshort(<https://cutshort.io/>)
- Enggwave(<https://www.enggwave.com/>)
- Freshersvoice(<https://www.freshersvoice.com/>)
- Fresherstask(<https://www.fresherstask.com/>)
- Freshersjobs24(<http://freshersjobs24.com/>)
- ChetanasForum(<http://www.chetanasforum.com/>)
- Monster India (<http://www.monsterindia.com/>)
- Indeed India ([www.indeed.co.in](http://www.indeed.co.in))
- Shine ([www.shine.com](http://www.shine.com))
- Times Jobs (<http://www.timesjobs.com/>)
- Wisdomjobs(<https://www.wisdomjobs.com/walkins-in-chennai>)
- TodaysWalkin(<http://www.todaywalkins.com/Chennaijobs.aspx>)
- Career Jet ([www.careerjet.com](http://www.careerjet.com))
- FreshersWorld ([www.freshersworld.com](http://www.freshersworld.com))
- ClickJobs ([www.clickjobs.com](http://www.clickjobs.com))
- CareerBuilder – India (<http://www.careerbuilder.co.in/>)
- Placement India ([www.placementindia.com](http://www.placementindia.com))
- Freshershiring (<http://freshershiring.in/>)
- 69Jobs(<http://www.69jobs.com/>)
- Simplyhired(<https://www.simplyhired.co.in/>)

**Exams useful for you**

- Amcat
- Elitmus



## TRAINING ON ETAP

Department of EEE organized a one day training program on “ETAP” during 27<sup>th</sup> March 2018. The training was handled by **Mr. Dhinakaran .N (Senior Electrical Engineer, ETAP Automation Pvt. Ltd., Shenoy Nagar West, Chennai)**. 13 faculty members from EEE department attended the one day training program.

The sessions were handled by **Mr. Dhinakaran .N**. He discussed

- Load Flow Studies
- Short Circuit Studies

He gave training which covers,

- Understanding of system component modeling and the data input requirements
- References & assumptions & tips for modeling in case of non-availability of input data for components.
- Classical theory and standards comparison
- Analysis & understanding of the results.
- Correlation and double checking of results using Excel where possible (Excel calculation of some of the studies for comparison with ETAP results.)
- Equipment sizing & verification.
- Identifying and understanding the factors causing technical & operational limitations in the system.
- Case Studies
- Question & Answers

The two day training program was very useful for the staff members to update their practical knowledge in ETAP.

## HANDS ON TRAINING IN ELECTRICAL MAINTENANCE EQUIPMENTS

One day workshop on “**Hands on training in Electrical maintenance equipments**” was conducted for final year EEE students on **19<sup>th</sup> March 2018**. This course is organized by Mr.G.Kannayeram, AP(Sr.Grade)/EEE. Forenoon session, he explained about the Theoretical Background behind various Earth resistance measurement methods and earth resistance measurements and Cable fault identification using Megger.

Afternoon session, He gave hands on training in Earth resistance & Earth fault identification, Cable fault identification using Megger, Panel board fabrication, Measurement of various electrical parameters in a three phase circuit using Multifunction meter and Electrical connections of household equipments such as fan, tubelight & ironbox etc. After completion of this workshop, The students will able to measure earth resistance, Cable fault identification, Insulation resistance of a cable and insulators in real world environment.



## **PLACEMENT DETAILS**

On behalf of the Chairman, Managing Director, Director, Principal, Head of the Department and staff members, we heartily congratulates the final year students who placed in **M/S Abarna Analytical, Gujarat**, Campus drive during the month of February 2018.

### **M/S Abarna Analytical, Gujarat**



**Mr. M.Saravanan**

## INDUSTRIAL VISIT

### Field Visit – Report

Electrical Power System (**15EE45C**) is one of the core courses for Fourth semester EEE students under regulation-2015 and High Voltage Protection and Switchgear (**15HE22C**) is one of the core courses for second semester PG HVE students under regulation-2015. So a industrial visit to **110kV/33 kV/11kV Kaliangapatti substation** has been arranged for both Second year UG EEE students and PG HVE students, a total of 87 Students along with Four faculty members, **Mr.G.Kannayeram, AP (Sr.G), Mr.S.Senthilkumar, AP, Mr.B.Venkatasamy, AP and Ms. Gowthami, AP** on 16.03.2017. We all assembled at the college and left the college premises by 11.30 am. We reached **Kaliangapatti substation** at 12.40 am.

Mr.Rajasekar, Assistant Executive Engineer/TNEB explained about the function of power system component in 110/33kV/11 kV substation such as,

- Control room with numerical relays without SCADA
- Transformers, Single Bus bar with single circuit breaker arrangement and Insulators
- Current Transformers and Potential transformers
- SF6 Circuit breaker and Isolators and Lightning Arresters

By the end of the visit, students can get the Practical knowledge for the course outcomes 4 and course outcomes 5 in the course “High Voltage Protection and Switchgear (**15HE22C**)” and Course outcomes 1 and 4 in the course “Electrical Power System (**15EE45C**)”.





**TECHNICAL ARTICLE BY STAFF****Ms. O. Supriya,****Assistant Professor, EEE****DEREGULATED ELECTRICITY MARKET**

In a deregulated electricity market, market participants other than utility companies own power plants and transmission lines. In such instances, generators (companies that generate electricity) sell electricity into a wholesale market, and retail energy suppliers purchase this electricity to sell it to customers. Transmission companies or utilities own and operate the transmission grid. This market universe is managed by an independent system operator (ISO) or regional transmission organization RTO. Deregulated markets have opened up generation for competition from independent power producers in 24 states, such as California, Texas and most states in the Northeast. 18 of these states and Washington D.C. have also introduced retail choice, which allows residential and/or industrial consumers to choose their own electricity provider. Customers benefit from more competitive rates and generation options, including renewable energy. It is important to note that the market is not split clearly between regulated and deregulated states. Some states, like California, are partially regulated markets. This is due to the nature of the grid, historic reasons and the geographic boundaries of utility territories in neighboring states.

In deregulated market, few additional parties are involved. The Utility still owns the infrastructure, but with the only responsibility to distribute electricity. Deregulated markets provide entry to electricity service providers, who will compete among themselves and sell electricity to consumers directly. Two-pronged benefits of deregulated structure is that it boosts the competition among service providers, which in turn leads to lower prices for consumers and unleash the latent demand which will encourage more players to engage in competition and offer better rates and services to end consumers. However, the benefits depend upon state to state and also vary with demographic and geographic profile. The introduction of deregulation in electricity market allows new entities to enter the deregulated market. The entities are GENCO, DISCO, TRANSCO, RESCO and customers.

The main objectives of deregulated power market are as follows

- To satisfy the customer needs and to provide electricity at reasonable rates
- To promote competition in the generation and distribution of electricity to the customers
- To improve the continuity of power supply and to provide better service
- To improve the efficiency, reliability and economy of the power system
- To encourage many independent power producers to act as a source for customers.

The deregulation of the industry has provided electrical energy with a new dimension where it is being considered as a commodity. The 'commodity' status given to electrical power has attracted entry of private players in the sector. The private players make the whole business challenging from the system operator's point of view, as it now starts dealing with many players which are not under its direct control. This calls for introduction of fair and transparent set of rules for running the power business. The market design structure plays an important role in

successful deregulation of power industry. It is claimed that some of the significant benefits of power industry deregulation would include:

1. Electricity price will go down: It is a common understanding that the competitive prices are lesser than the monopolist prices. The producer will try to sell the power at its marginal cost, in a perfectly competitive environment.
2. Choice for customers: The customer will have choice for its retailer. The retailers will compete not only on the price offered but also on the other facilities provided to the customers. These could include better plans, better reliability, better quality, etc.
3. Customer-centric service: The retailers would provide better service than what the monopolist would do.

Innovation: The regulatory process and lack of competition gave electric utilities no incentive to improve or to take risks on new ideas that might increase the customer value. Under deregulated environment, the electric utility will always try to innovate something for the betterment of service and in turn save costs and maximize the profit.

**STUDENTS ACHIEVEMENTS****INTERNATIONAL CONFERENCE**

Sl. No	Name of the students	Year	Event	Organizer	Date	Title
1.	Ajithkumar.U Aravindkumar.C Mohamedsarjun.S Iswaramoorthy.U	IV	International Conference on Science, Technology, Engineering and Management	Kalaignar karunanidhi Institute of Technology, Coimbatore	23.03.2018 – 24.03.2018	Optimal Tunning of PID Controller for Hydro Thermal Power System using Evolutionary Algorithm
2.	HariHaran.M Ajith.R Ajithkumar.M Kamalakkanan.V	IV	International Conference on Science, Technology, Engineering and Management	Kalaignar karunanidhi Institute of Technology, Coimbatore	23.03.2018 – 24.03.2018	Optimal Tunning of PID Controller for Hydro Thermal Power System using Evolutionary Algorithm
3.	Mohamedsarjun.S	IV	International Conference on Science, Technology, Engineering and Management	Kalaignar karunanidhi Institute of Technology, Coimbatore	23.03.2018 – 24.03.2018	Direct Control of PV and CHP Generation in active Distribution Networks in Corporation Dispersed Energy Storage Systems
4.	Shiva.G.P Kartheeswaran.M Saravanakumar.S	III	International Conference	SVS College of Engineering, Coimbatore	01.03.2018 to 03.03.2018	Super Intending of Level and Stench of The Public Trash Can Via Internet of Things
5.	B.Mohanraj, G.Muthukumar, A.Rajasekar and S.Thangabalamurugan	IV	International Conference	Sri Krishna College of Engineering, Coimbatore	22.03.2018 and 23.03.2018	Analysis of Transformer Faults using Expert Systems

**EVENTS**

Sl. No	Name of the students	Year	Event	Organizer	Date	Rank/status
1.	Selva Lakshmi.S	III	Paper Presentation Title “Water Spy-A Submarine Robot”	Dr.Sivanthi Aditanar College of Engineering, Tiruchendur	23.02.2018	II Prize
2.	Aravindhan.R and Ariharan. S	III	Quiz	Fisheries College and Research Institute, Tuticorin	22.02.2018	II Prize
3.	Seetha.k JamunaDevi.S	III	Paper Quest Techquest’18	Mount Zion College of Engineering & Technology, Pudukkottai	09.03.18	-
4.	Saravanan.M	IV	Workshop	MepcoSchlenk Engineering College, Sivakasi	01.03.2018- 03.03.2018	-
5.	Ganesh.M Rajesh.G Vishnumoorthi.D	III	Workshop	MepcoSchlenk Engineering College, Sivakasi	01.03.2018- 03.03.2018	-
6.	Aasha.A AniNithusha.M	III	IEEE Project Contest “Emerging Trends in Engineering Applications”	Velammal College of Engineering & Technology, Madurai	09.02.2018	-
7.	Amarnath.S Muralitharan.R NallaSelvaPrakash.V Vijay Sanmugam.M	II	Paper presentation	Dr.Mahalingam College of Engineering and Technology, Pollachi	09.03.2018	-
8.	Amritha.S SangeethaShorubha.R	II	Paper presentation	Government College of Technology, Coimbatore	09.03.2018	-
9.	Balakannan.U.K Robinson.R Suresh.C	II	Paper presentation	Madras Institute of Technology, Anna University, Chennai	09.03.2018- 10.03.2018	-
10.	MafinRijoe.M Vasanthan.R	II	Paper presentation	Bannari Amman Institute of Technology, Sathiyamangalam, Erode	02.03.2018- 03.03.2018	-



11.	Mahalakshmi.T Vigneshwari.P	II	Paper presentation	Madras Institute of Technology, Anna University, Chennai	09.03.2018- 10.03.2018	-
12.	Ramkumar.P ShunmugaSundara m.K Siva Sornaram.R Solaiprakash.R	II	Workshop	NIT, Tiruchirappalli	(04.03.18)	-

## Memorable Moments



**Dr.M.Willjuice Iruthayarajan** receiving incentives in 34<sup>th</sup> Annual day 2018



**Dr.L.Kalaivani** receiving incentives in 34<sup>th</sup> Annual day 2018



**Mr.R.Muniraj** receiving incentives in 34<sup>th</sup> Annual day 2018



**Mr.M.P.E.Rajamani** receiving incentives in 34<sup>th</sup> Annual day 2018



**Ms.S.Balakiruthiha** receiving incentives in 34<sup>th</sup> Annual day 2018



**Dr.L.Kalaivani** delivered welcome address in 34<sup>th</sup> Annual day 2018





**Ms.Muthu selvi** receiving second rank for the academic year 2016-17 during 34<sup>th</sup> Annual day 2018



**Ms.Tamilarasi** receiving first rank for the academic year 2016-17 during 34<sup>th</sup> Annual day 2018



**Ms.Maragathalakshmi** receiving second rank for the academic year 2016-17 during 34<sup>th</sup> Annual day 2018



**Ms.Iswariya** receiving third rank for the academic year 2016-17 during 34<sup>th</sup> Annual day 2018



**Ms.Ramya** receiving third rank for the academic year 2016-17 during 34<sup>th</sup> Annual day 2018



**Ms.Ani Nithusa** receiving first rank for the academic year 2016-17 during 34<sup>th</sup> Annual day 2018





**Ms. Sindhu Muhila** receiving second rank for the academic year 2016-17 during 34<sup>th</sup> Annual day 2018



**Ms. Divya** receiving third rank for the academic year 2016-17 during 34<sup>th</sup> Annual day 2018



**Ms. Rishika** receiving third rank for the academic year 2016-17 during 34<sup>th</sup> Annual day 2018



**Ms. Vauniya** receiving first rank for the academic year 2016-17 during 34<sup>th</sup> Annual day 2018



**Mr. Shanmuga Sundar** receiving second rank for the academic year 2016-17 during 34<sup>th</sup> Annual day 2018



**Ms. Eswari prabha** receiving third rank for the academic year 2016-17 during 34<sup>th</sup> Annual day 2018





Our students Saravana Kumar, IV year and Siva kumar, III year achievements in 34<sup>th</sup> College Sports Day 2018



Our students Dinakar raja, Pavitharan, Saravana Kumar and Vishnu Moorthi achievements in 34<sup>th</sup> College Sports Day 2018



Our students Shenbaga devi, Uma, Muthuvaratha lakshmi, Jamun Devi, Our students Achievements in 34<sup>th</sup> College Sports Day 2018 and Our students Achievements in 34<sup>th</sup> College Sports Day 2018 achievements in 34<sup>th</sup> College Sports Day 2018





Our students Padmavathi, Shenbaga Devi and Sugashini achievements in 34<sup>th</sup> College Sports Day 2018



Our students Achievements in 34<sup>th</sup> College Sports Day 2018



Our students Achievements in 34<sup>th</sup> College Sports Day 2018

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