

# Newsletter

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS  
ENGINEERING**

**Dec 2014-April 2015**

The department was established in the year 1999. Initially it offered under graduate course with the strength of 60 and successfully increased to 120 during the academic year 2004-2005 and 180 in the year 2011. It also offers post graduate course in M.Tech-Power Electronics and Drives from the year 2011 with an approved intake of 18.

The Department of Electrical and Electronics Engineering offers under graduate course in Electrical and Electronics Engineering and Post Graduate in M.Tech-Power Electronics and Drives with industry required syllabus. It offers Professional and need based continuing education to conduct training Programmes in frontier areas of Electrical Engineering on par with consultancy and technical services to the industry.



The Department stands as a unique centre for promotion of excellence in Electrical Engineering and has been successful in fulfilling its role in the rocketing technologies. The faculty members have put their tireless effort in contributing research papers to International journals like IEEE, Elsevier and Springer etc.

Electrical and Electronics Engineering discipline is multi-disciplinary by nature, representing a veritable synergy of different technologies. To meet the challenges of the new millennium, we train our students in the areas of artificial neural networks, fuzzy logic, finite element analysis, computer aided design of electrical machines, micro-controllers and digital signal processing, generation, transmission and distribution of power, power system operation and control, Electrical Machines, Power Electronics and their control using computer methods etc.

## Vision of the institute

To be a stimulating place to learn and practice technology and to become a leading college of engineering nationally and internationally recognized for its outstanding education research and outreach programs.

## Mission of the institute

**M1: (Foster the Inbuilt qualities)**

To foster the inbuilt qualities of the students to face the challenges of the new millennium.

**M2: (Innovative Ideologies)**

To provide an opportunity to explore and experiment innovative ideologies.

**M3: (Potential Dexterity)**

To equip our students with the vital and potential dexterity in order to flourish in the corporate and industrial sectors.

**M4: (Excellence in Engineering)**

To dilate as centre of relevance and excellence in engineering and technology.

## Vision of the Department

“To be an effective source of technical manpower for the nation and to contribute to the growth of the nation by constantly upgrading the quality of technical education by meeting the challenging needs of the twenty first century and effectively coordinating the activities of the staff, students and the industry while keeping up the ethical and moral standards required”.

## Mission of the Department

**M1: (Quality education and Ethics)**

To provide quality education with ethical values.

**M2: (All round competitiveness)**

To train and educate students with all round competitiveness.

**M3: (Centre for Research studies)**

To develop the department as a Centre for research studies in various Specialized areas and to strengthen the Industry-Institute Interaction.

**M4: (Higher studies and Society oriented research)**

To motivate the students to do higher studies and to undertake society oriented research.

**M5: (Team Spirit, Leadership Quality)**

To nurture the talent and to facilitate the students with Team Spirit, Leadership Quality and Flexibility in Budding Electrical Engineers that makes a positive difference to society through education.

# Gold medals



Details of Gold medal and rank holders		
Year	University Gold medal	Other Top Fifteen Rank holders
2011-15	1	2,6,7,11
2010-14	1	3,5,6,10,11,12,13,15
2009-13	1	2,4,5,6,7,9,11,12,13
2008-12	1	2,4,9,13,14,15

## STUDENTS ACHIVEMENTS

### Publications by students (International Journals)

Sl. No	Publication details
1	R.Arunkumar and S.Anbumalar, 'Finite Element Analysis of Lithium Iron battery for electric vehicle applications' International Journal of Technical Science Engineering, IJNTSE –IEEE, issue 4, No.38, pages 1725-1730, Jan. 2015.
2	R.Arunkumar and S.Anbumalar, 'Finite Element Analysis of Lithium Iron battery for electric vehicle applications' IEEE sponsored international conference EESCO-15 held in Vizag, during Jan. 2015.
3	Arunkumar.R, S.Anbumalar, AvilaPriya.F, Poongothai.K, "Computational Fluid Analysis of Lithium-Ion Battery Using ANSYS Fluent", International Journal of Scientific & Engineering Research, Volume 6, Issue 4, April-2015.

# Students Achievements



Our student Betalam Satya Karteek, has participated in “TCS INNOVATE” contest, which is one of the event of ‘Kurukshetra’ organized by College of Engineering, Anna University, Chennai, jointly with **Tata Consultancy Services** held on **31.01.2015**. The objective was to develop a module which will detect the real time occupancy combining IOT (Internet of Things). **16 teams** were selected for the final round **out of 181 across India**, in which our students secured **Third place and received a cash prize of Rs.10,000 with internship**.



# Students Achievements

## IEEMA (Indian Electrical and Electronics Manufacturing Association)

IEEMA is a national representative organization of manufacturers of electrical, industrial electronics and allied equipment in India. IEEMA conducts technical activities where members meet and discuss issues concerning the industry and its growth opportunities. IEEMA organizes ELECRAMA exhibitions dedicated to the electrical T&D sector, international seminars, workshops and training programs, and publishes a monthly IEEMA Journal.



M.Vivek of EEE Department, SMVEC have presented the research paper titled “Study of protective device for series capacitor compensation in 500 KV grid systems” in CAPACIT –2014 organized by Indian Electrical and Electronics Manufacturing Association (IEEMA) on 20<sup>th</sup> and 21<sup>st</sup> November 2014 at New Delhi. They are the only students among many industrialists who had discussion along with the industrial research experts.

Apart from presentation, seven student batches were selected for CAPACIT’ 14 conference

# Students Achievements



P. Priyadharshini, R. Raghavi, K. Anjana, Betalam Satya Karteek and S. Rajalakshmi of IV year EEE participated in [Lunar Rover Challenge](#) which was conducted by Team Indus and hosted by IIT Madras as a part of Shastra Tech Fest. These students won prize for **“BEST CONTROL CONSOLE”** and also they were awarded a cash prize of Rs.20,000

Mr. Ayadoure Srinivasane @ Stalin and Mr. Arul Rajasekaran of EEE department (2012-2016 Batch) are the prize winners of “TECHFEST” conducted by IIT Bombay on 2<sup>nd</sup> January 2015 for the research work titled “Modeling of Accurate Reactive Power Compensator System for Photo-Voltaic and Wind Turbine Grid Connected Transmission System”. The prize winners were congratulated by Dr. V.S.K Venkatachalapathy, Director cum Principal and Dr. S. Anbumalar, HOD/EEE.



## Students Achievements



Mr. Sriram, Mr. Guruprashad, Mr. Vincent students of EEE department (2011-2015) won the **first prize** in the Robowar, Kuruchetra held at Anna university, Chennai.

Our Vice-Chairman Shri.S.V.Sugumaran and Director cum Principal Dr.V.S.K.Venkatachalapathy congratulated the III year B.Tech. EEE students who won the first prize in the Robo Race Kurukshetra, held at Anna University,Chennai.

Our Director cum Principal Dr.V.S.K.Venkatachalapathy congratulated the EEE students Sriram, Vincent and Dinesh.K who won the first prize of Rs.20,000 in Robo Race held at MIT, Chennai in 2015



**Sigraram Thodu**, a National Level program was conducted by Vasanth TV to explore students Innovation, in the field of Agriculture and our student project titled "Green House Automation" was shortlisted and telecasted.

## CO-CURRICULAR ACTIVITIES



Ms.Mary Josline.J has got Gold Medal in the Inter College Table Tennis Competition Held at Pondicherry University.

## Alumni Meet



One of our alumni (department of Electrical and Electronics Engineering , Sri Manakula Vinayagar Engineering College, Madagadipet, Puducherry.) had discussion with one of the alumnus and recording his feedback regarding the college, the department, the faculty members, the teaching methodologies, the curriculum, and the facilities provided by the college.

## Industrial Visits

Sl. No.	Industry visited	No. of student Visited	Date	Year/Sem/Sec/Batch
1	General Transformer Mettupalaym, Pondicherry	119	04.07.2014 & 24.07.2014	II year
2	Lucas TVS	118	24.07.2014 1.08.2014 28.08.2014	III/A,B&C (2012 -2016)
3	Thondamanatham substation, Electricity Board, Puducherry	157	31.07.2014 & 01.08.2014	III-Year
4	HMT Machine tools HMT Machines tools at kochi Ernakulam	106	12.07.2014	IV year
5	Kerala Electricals and Allied Engineer- ing co.Ltd	106	11.07.2014	IV year
6	Hykon Industries HYKON INDIA (P) LTD.,	106	04.07.2014	IV year



Industrial Visit to Thondamanatham substation,  
Electricity Board, Puducherry  
by III year A sec students on 31.7.2014

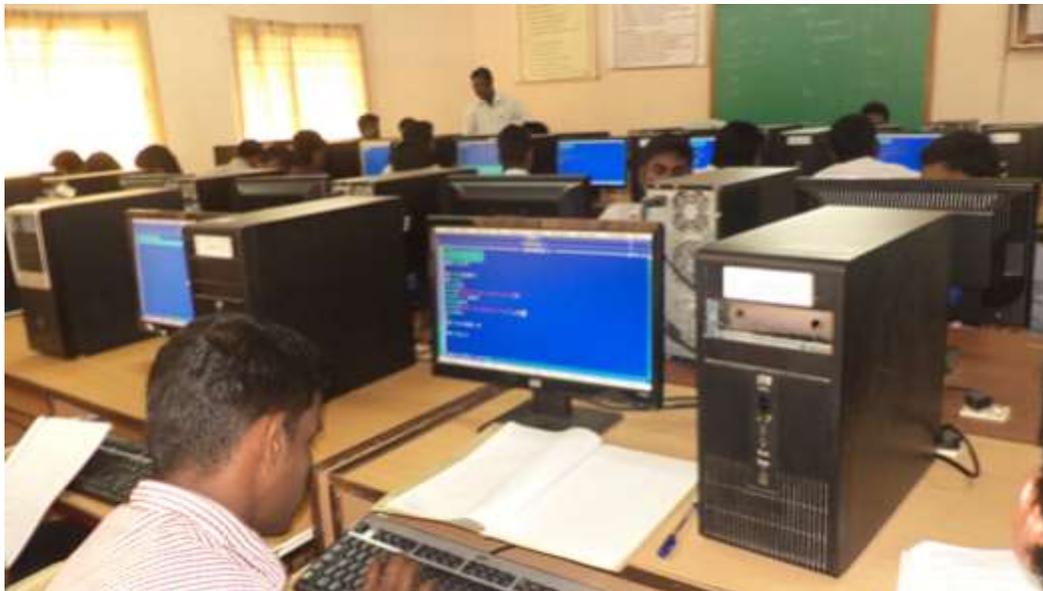
## Guest Lecture

Sl. No	Name of the Organization	Type of work carried out
1	Chennai Metro Rail Ltd.,	Mr.S.M.Amuthan, Deputy General Manager operations(DGM), presented a guest lecture to the student on Data Communication and Computer Networks with its Application.
2	Green pulses power solutions, Puducherry.	Mr.T.Prabhakaran, Project Engineer, had presented a seminar on Recent Trends in Industrial Automation to the students.
3	Pantech ProEd Private Limited, Chennai	Mr.Gokul had given a guest lecture on Embedded systems.
4	St.Patrick, Puducherry	Mr.Rajagopal& Ms.Malathi have provided the 10 days training to the students on C and C++
5	SS power Switchgear limited,Puducherry	K.Arunprasath, System Engineer, presented guest lecture to the student on Recent trends in a GSM network.
6	BGR energy system limited, Chennai	Ms.C.Santhiya, Quality Control Engineer, presented guest lecture to the students on Different technology adopted in motor control of washing machine.



Resource person **Mr. T. Prabhakaran, Project Engineer, Green Pulses Power Solutions Pvt. Ltd.** gave the guest lecture to the students about **“Recent Trends in Industrial Automation”** on 21.02.15 at 10.00 AM

## Value added courses



To enhance the knowledge of the students the department organizes a 10 day training program on **C and C++** for the third year students. Mr.Sekar, Trainer Ed solutions explains the program code (III year B section) in the value added course entitled as “**C and C++**” held on 13<sup>th</sup> December 2014

## GATE COACHING

For admission of M.Tech program in most of the universities and to get job in the various public sectors (Power Grid, NHPC Limited, etc) GATE score is mandatory. Depending on the GATE score, students may be eligible for scholarships from the Union Ministry of Human Resource. However, it also identifies suitable engineers/researchers in various areas and helps them choose their subjects of interest to pursue their master's degree.



Mr. S. JOHN POWL, Assistant professor of Electrical and Electronics Department offers training to the students for the GATE Examinations in Electric circuit analysis



Mr. S.THULASIDHARAN, Assistant professor of Electrical and Electronics Department gave training to the students to solve Aptitude questions

## PLACEMENT DETAILS

Sl. No	COMPANY NAME	STUDENT PLACED	CAMPUS	SALARY PACKAGE
1.	ZOHO CORPORATION PVT. LTD.	1	ON CAMPUS	Rs.4,60,000 p.a
2.	HCL	3	OFF CAMPUS	Rs.3,25,000 p.a
3.	TCS	32	ON CAMPUS	Rs.3,18,000 p.a
4.	SUPREME & CO, KOLKATA	2	ON CAMPUS	Rs.3,00,000 p.a
5.	L & T INFOTECH	13	ON CAMPUS	Rs.3,00,000 p.a
6.	COGNIZANT TECHNOLOGY	2	OFF CAMPUS	Rs.3,00,000 p.a
7.	COPPER BUSSMAN	1	OFF CAMPUS	Rs.2,16,000 p.a
8.	PHOENIX SEA SERVICES PVT LTD	10	ON CAMPUS	Rs.2,16,000 p.a
9.	SUTHERLAND	8	ON CAMPUS	Rs.1,80,000 p.a
10.	CSS CORPORATION	2	ON CAMPUS	Rs.1,80,000 p.a
11.	AAGNA	1	ON CAMPUS	Rs.1,20,000 p.a
10.	PAN TECH SOLUTION PVT LTD	15	ON CAMPUS	Rs.1,20,000 p.a
11.	HINDHUJA GLOBAL SERVICES	1	OFF CAMPUS	Rs.1,20,000 p.a
12.	VDART	1	OFF CAMPUS	Rs.1,20,000 p.a
Total		92		

## BEST PROJECT -Final year Academic project

BEST PROJECT (2014-15)				
Sl. No.	Student Name	Title of the Project	Place	Amount in Rs.
1	Vincent. S Karthigeyan. S Arivoli. R	Farm Automation Using Arduino Atmega-2560	I	Rs.5,000
2	Ganesan. N Ilayaraja. R Manikandan.A	Maintaining Three Phase Supply In Agricultural Motor Pump	I	Rs.5,000

# **NEWS LETTER**

{DEC 2014-APRIL 2015}

## **The editorial board**

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