

# Newsletter

DEPARTMENT OF ELECTRICAL AND ELECTRONICS  
ENGINEERING

June 2015-Nov 2015

The department was established in the year 1999. Initially it offered an under graduate course with a 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 in Electrical and Electronics Engineering and Post Graduate course 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. The faculty members have put their tireless effort in contributing to research papers and International journals like IEEE, Elsevier and Springer etc.

Electrical and Electronics Engineering 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

#### PUBLICATIONS : IEEMA CONFERENCE - SWICON 2015

**SWICON Conference** organized by **IEEMA** was held after an interval of four years in 2015. It provides an international platform for the presentation and discussion on the latest developments in the field of Switching, Protection, Control and Communication for Low, Medium, High and Extra High Voltage power systems. This conference facilitates attendees to meet and interact with experts from various domains and learn about new developments being done across the globe. The details of the paper presentation by our students are given below:

- **G.Sivakami, N.Thenmozhi & G.sivapriya**, IV year students presented the paper titled "Design of self- resettable fuses for distribution transformer and its thermal analysis using finite element method" in SWICON 2015, International conference held at Mumbai on 26<sup>th</sup> & 27<sup>th</sup> November, 2015.
- **R.Dhivya & G.Gayathri** "Breakdown voltage and reverse recovery rate estimation of super-critical nitrogen plasma switch" in SWICON 2015, International conference held at Mumbai on 26<sup>th</sup> & 27<sup>th</sup> November, 2015.
- **R.Bavithra & R.Ranjani**, III year students presented the paper titled "Improving insulation in arc medium by Tri fluoro iodo methane (CF<sub>3</sub>I) in circuit breaker" in SWICON 2015, International conference held at Mumbai on 26<sup>th</sup> & 27<sup>th</sup> November,.2015.

## ISTE students chapter



Former Chief Minister of Puducherry-Mr.N.Rangasamy,ISTE president Prof.Mr.PrathapSinh K.Desai, ISTE Vice-president Dr.Manivannan and Managing Secretary Prof.Vijay Dattatraya Vaidya facilitated ISTE- Srinivasa Ramanujan Mathematical competition award function held at our college campus on 4<sup>th</sup> July, 2015.



To improve the technical knowledge of the students the department inaugurated R& D (Research and Development) club and Mr. M.Sridar, C&E Manager, WHIRLPOOL INDIA Ltd were the chief guests for the occasion.

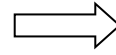


Mr.Amirtha Ganesh, Trainer ,TCIL, Puducherry delivered a lecture to IV year B section students in the value added course entitled as “PLC and SCADA”.

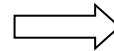


Mr.S.Kannan, Manager-Technical, Green energy solution, Puducherry gave “Hands on training in ANSYS software (FEM/FEA)” for second and third year EEE students on 25<sup>th</sup> July 2015.

## Awards received by Students



**R.Balaji and J.Krishna Chandhar** from the IInd year of the EEE department bagged Ist prize and a Rolling Trophy in a Quiz program “**CHENQUEST**” conducted by All India Customs Employees Association on 05<sup>th</sup> August, 2015 at German Hall, Chennai.

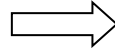


**R.Balaji and J.Krishna Chandhar** II year of EEE department bagged Ist prize with a cash prize of **Rs.10,000/- and Trophy** in “**QUIZTIME-2015**” conducted by Sky Is Our Limit (SIOL) knowledge society in August 2015 at Cuddalore.

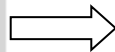


Mr.R.Balaji and Mr.J.Krishna chandhar of EEE department (2014-2018 Batch) won the 1<sup>st</sup> prize in “**CUBANE SCIENCE QUIZ**” conducted by Saint Xavier’s College on 01-09-2015 at Palayamkottai. The prize winners are congratulated by Dr.V.S.K.Venkatachalapathy, Director cum principal and Dr.S.Anbumalar HOD/EEE.

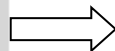
## SOCIAL ACTIVITY



The Department organized an awareness programme on “**Digital India Week**” at Holy Flowers Higher Secondary School - Kariyamanickam on 17<sup>th</sup> July, 2015. Dr.K.Vijayakumar, Professor and our students Krishna Chander and Selvakumar explained the program’s vision, services and benefits.

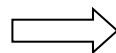


Our students arranged a banquet for the destitute children at domicile on account of **Diwali celebration** on 3<sup>rd</sup> November, 2015 at Jally Home, Krishna Nagar, Lawspet, Puducherry and various co-curricular competitions through “voices for the youth foundation” for the residential care children at Thiagajothi Community Development Centre, Thattanchavady, Puducherry on 14<sup>th</sup> November,2015



Our NSS students went on an awareness campaign named “**DIGITAL INDIA VILLAGE AWARENESS CAMPAIGN- KARIYAMANICKAM**” held on -17.07.15

## PONDICHERRY UNIVERSITY e-LEARNING CONTENT EVALUATION



Pondicherry University e-learning content evaluation was organized on 8<sup>th</sup> August, 2015 in our department.

## INDUSTRIAL VISIT

S.No	Name of the organization	Date	Year/Sec/Batch
1.	Pondicherry Power Corporation limited. T.R.Pattinam, Nagore Main, Karaikal-609606	03.09.15	II, B-sec, (2014-2018)
2.	Pondicherry Power Corporation limited. T.R.Pattinam, Nagore Main, Karaikal-609606	16.09.15	II, A-sec, (2014-2018)
3	110/11 KV, Venkata Nagar Sub-Station, Electricity Dept., Puducherry .	02.09.15	III, A-sec, (2013-2017)
4	110/11 KV, Venkata Nagar Sub-Station, Electricity Dept., Puducherry .	03.09.15	III, B-sec, (2013-2017)
5	110/11 KV, Venkata Nagar Sub-Station, Electricity Dept., Puducherry .	04.09.15	III, A&B-sec, (2013-2017)

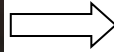


III year EEE students visited Venkata Nagar substation, Puducherry on 2<sup>nd</sup> & 3<sup>rd</sup> September 2015.



II year EEE students visited the Puducherry Power Corporation Ltd. (PPCL), Karaikal on 3<sup>rd</sup> & 13<sup>th</sup> September 2015.

## Career Development Programmes



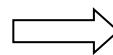
Career Development Programmes were conducted to the IV year students.

## VALUE ADDED COURSES



**PLC & SCADA** training was given to the III- Year students by Telecommunications Consultants India Ltd (TCIL-IT), Puducherry from 06<sup>th</sup> July, 2015 to 11<sup>th</sup> July, 2015.

## Motivation Talk



Mr. Jayaprakash Gandhi from chennai delivered a Motivation Lecture to Final year students on 18<sup>th</sup> August, 2015.



## Media Recognition

### Insights into networking for communication engineers

Devanathan Nanda Gopal, an alumnus of PEC spoke on 'Accessing Facebook.com from the Desktop'

Taking the audience through the journey of information from every keypress on the keyboard to its final destination, Devanathan Nanda Gopal, an alumnus of the Pondicherry Engineering College, addressed pre-final and final year undergraduate students recently on the topic, 'Accessing Facebook.com from the Desktop'. The Students' Council of Department of Electronics and Communication Engineering organised the guest lecture in association with the Pondicherry Engineering College Alumni Association (PECAA). G. Nagarajan, Head, Department of ECE, in his presidential address, highlighted the impact of social networks and emphasised the relevance of the topic for communication engineers.



J. Krishnachander and R. Balaji of Sri Manakula Vinayagar Engineering College, Puducherry, who won the Quiztime-2015 inter-collegiate competition. PHOTO: SPECIAL ARRANGEMENT

#### CAMPUS CONNECT

jects to explore the research challenges as outlined by Mr. Gopal, added the release.

#### Quizzing honour

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Two students, R. Balaji and J. Krishna Chandhar, from the Department of Electrical and Electronics Engineering, Sri Manakula Vinayagar Engineering College, won the Quiztime-2015, an inter-collegiate quiz competition held at Cuddalore recently. Quiztime-2015 was organised by The Sky Is Our Limit (SIOL), a quizzing society based in Puducherry. The second year students were awarded a cash prize of Rs10,000 and a trophy by SIOL founder and quizmaster S. Muthukumar. The management and faculty of the college felicitated

#### 'Digital India'

The Digital India initiative will help help rural and urban people with their daily requirements, said A.S. Sivakumar, Director, Directorate of Information Technology, Puducherry, at the technical symposium 'Pointers 2K15' organised by the Arunai Engineering College, Tiruvannamalai, in association with the Indian Society for Technical Education. He also lauded the Smart Cities Mission. Also speaking at the symposium, D. Manjula, Head, Department of Computer Science Engineering, Anna University, Chennai, advised students to develop innovative projects which will enhance their job prospects in software companies. (Reporting by Annie Philip)



வெற்றி பெற்ற மாணவர்களை கல்லூரியின் இயக்குனர் மற்றும் முதல்வர் வெங்கடாஜலபதி, துறைத்தலைவர்கள் மற்றும் பேராசிரியர்கள் ஆகியோர் பாராட்டினர்.

வினாடி-வினா போட்டி

மணக்குள விநாயகர் பொறியியல் கல்லூரி மாணவர்கள் சாதனை சுழற்கோப்பை வென்றனர்

புதுச்சேரி, ஆக.12-

சென்னையில் அகில இந்திய சங்கத்துறை ஊழியர்கள் சங்கம் சார்பில் வினாடி வினா போட்டி நடைபெற்றது. இதில் மணக்குள விநாயகர் பொறியியல் கல்லூரியில் மின்னியல் மற்றும் மின்னணுவியல் துறையில் 2-ம் ஆண்டு படிக்கும் பாலாஜி மற்றும் கிருஷ்ணச்சந்தர் ஆகியோர் முதல் பரிசினை வென்றனர். அவர்களுக்கு பரிசுத்தொகையாக ரூ.4 ஆயிரமும் சுழற்கோப்பையும் வழங்கப்பட்டது. இதே மாணவர்கள் கடந்த ஆண்டு நடைபெற்ற போட்டியிலும் வெற்றி பெற்றனர் என்பது குறிப்பிடத்தக்கது. மேலும் இவர்கள் 2-வது முறையாக வெற்றி பெற்றதால் மாநில கல்லூரிகளுக்கு இடையிலான சுழற்கோப்பையையும் சொந்தமாக்கினர்.

வெற்றி பெற்ற மாணவர்களை மணக்குள விநாயகர் கல்விக்குழுமத்தின் தலைவர் மற்றும் மேலாண் இயக்குனர் தனசேகரன், துறைத்தலைவர் சுகுமாறன், செயலாளர் நாராயணசாமி, கல்லூரியின் இயக்குனரும் முதல்வருமான வெங்கடாஜலபதி, துறைத்தலைவர் அன்புமலர் மற்றும் அனைத்து பேராசிரியர்களும் பாராட்டினர்.

Quiz Competition, Malaimalar, 12.08.2015, page 2.

Quiztime-2015 of SMVEC EEE

Student, The Hindu, 08.09.15, page 2.

# **NEWS LETTER**

{JUNE 2015-Nov 2015}

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