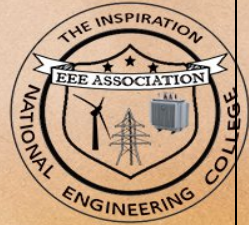




**NATIONAL ENGINEERING COLLEGE**

(AN AUTONOMOUS INSTITUTION)

K.R.NAGAR, KOVILPATTI-628503.



# EEE NEWSLETTER

March 2015  
Volume 2 Issue 9

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

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## STAFF ACTIVITIES/PUBLICATIONS/ACHIEVEMENTS

### ACTIVITIES:

S.No.	Name of the Staff	Events/Guest Lecture	Topic	Date	College
1	Dr.M.Willjuice Iruthayarajan, Professor & Head	Guest Lecture	Evolutionary Algorithm and its Application to Controller Tuning	21.04.2015	Noorul Islam Center for Higher Education, Thucklay
2	Dr.M.Willjuice Iruthayarajan Professor & Head	Chief Guest/ Guest Lecture	Evolutionary Algorithm and its Application to Control System	28.03.2015	Kamaraj College of Engineering and Technology, Virudhunagar
3	Dr.M.Willjuice Iruthayarajan Professor & Head	Guest Lecture National Conference – ADELCO-2015	Overview of Evolutionary Algorithm	18.03.2015	National Engineering College, Kovilpatti
4	Mr.R.Muniraj, Asst. Prof (SG)	Two Days Workshop	E-Yantra Lab setup Initiative (ELSI)	16.03.2015 & 17.03.2015	Mepco Schlenk Engineering College, Sivakasi

### PUBLICATIONS:

- ✓ Anbu Megelin Star, A, **Subburaj, P** 2014, “Segmentation of Lungs via Hybridization of CA and Level Set Algorithm”, Research Journal of Applied Sciences, Engineering and Technology, Vol. 8, Issue: 9, *Annexure – II*.
- ✓ Anbu Megelin Star, A, **Subburaj, P** 2014, “CAL SVM Tumour Classifier: Cellular Automata with Support Vector Machine for Lung Tumour Severity Analysis”, International Journal of Applied Engineering Research, Volume 9, Number 24 (2014) pp. 29283-29298. *Annexure – II*.

## **ACHIEVEMENTS:**



**Dr.M. Willjuice Iruthayarajan, Prof & Head**



**Dr.P.Subburaj, Professor**



**Dr.R.V. Maheswari, Associate Professor**



**Dr.L. Kalaivani, Associate Professor**



**Mr.G.Kannayeram, AP(SG)**



**Mr.J.Sivadasan, AP(SG)**

Our faculty members got Incentives for publishing reputed journals/funded projects on 31<sup>st</sup> Annual Day 2015 – Academic Year 2014 – 15.

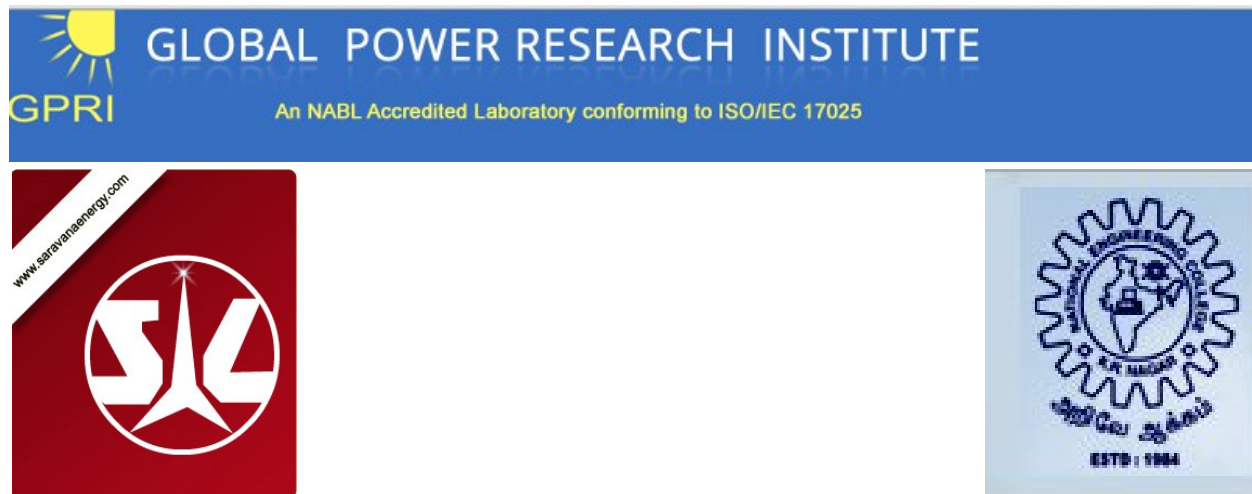
## INSTITUTE OF ENGINEERS (I) – FUNDED PROJECTS

### ACADEMIC YEAR (2014 - 2015)

S.No	Project Title	Name of the Student	Amount Sanctioned (Rs.)	Name of the Guide
1.	<i>Investigating the Critical Properties OLEIC Natural Ester with Nano composites</i>	Mr.D.Vigneshwaran (M.E., HVE)	10,000	<b>Dr.M.Ravindran</b> <b>Asso.Prof</b>
2.	<i>Performance Analysis and Breakdown characteristics of XLPE cables under different artificial defects</i>	Ms.S.Suganya (M.E., HVE)	5,000	<b>Dr.L.Kalaivani</b> <b>Asso.Prof</b>
3.	<i>Investigation on Electrical &amp; Physical property of mineral oil with Nano composites &amp; Antioxidants</i>	Mr.K.Shivaneshwaran (M.E., HVE)	10,000	<b>Dr.R.V.Maheswari</b> <b>Asso.Prof</b>
4.	<i>Real Time Implementation of Railway Track Fault Detecting System using IR and Ultrasonic Technology</i>	Mr.P.Shanmugam (B.E., III Year EEE)	5,000	<b>Mr.N.B.Prakash</b> <b>Asso.Prof</b>
5.	<i>Eyeball Sensor in Automatic Wheel Chair for Paralyzed Patients</i>	Mr.Pitchai Kumar Kannan. R Mr.Pon Esakki Raman. K Mr.Thirumani Krishnasami. R Mr.Saravanakumar. G (B.E., IV Year EEE)	5,000	<b>Dr.M.Ravindran</b> <b>Asso.Prof</b>

## INDUSTRY - INSTITUTION INTERACTION

### MEMORANDUM OF UNDERSTANDING



Signed a Memorandum of Understanding (MoU) with Saravana Global Energy Limited (SGEL)/ Global Power Research Institute (GPRI), Cuddalore for 3 years periods.

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

- PG Students, who are interested in the field of Manufacturing and Testing of High Voltage Equipments, will be selected by interview, for the Internship programme every year.
- These selected students will be deputed to SGEL and GPRI during summer vacation for two weeks.
- The students who have undergone this Internship programme will be given necessary infrastructure facilities to carry out the project at the High Voltage Laboratory of NEC.
- Students will be allotted Internal Guide(s) to monitor the progress of the projects.
- Faculty members of the EEE Dept. will be deputed to SGEL and GPRI every year for knowledge updation during summer vacation for a maximum period of two weeks.

**DEPARTMENT ACTIVITIES**  
**EEE ASSOCIATION**  
**AN INTER COLLEGE TECHNICAL SYMPOSIUM**  
**ALTANZIA'2K15**

The Department of Electrical and Electronics Engineering, National Engineering College organized a one day National Level Technical Symposium ALTANZIA'15 on March 11<sup>th</sup> 2015. Participants from various colleges all over Tamil Nadu were invited. The symposium was stuffed with both technical and non-technical events. The technical events included Slide Ride and Quiz while the non-technical events included what's App, Connections, Google hunt and Say Cheese. The Inauguration of ALTANZIA'15 was graced by the presence of the dynamic personalities **Mr.K.Jegan, Tech lead, Verizon Data Services India, Chennai, Mr.N.Ramachandran, Sr.Electrical Engineer, Hussmann Services India LLP, Bangalore, Dr.Kn.K.S.K Chockalingam Director, NEC, Dr.S.Shanmugavel, Principal, NEC and Dr. M. Willjuice Iruthayarajan, Head of the EEE Department, Dr.R.V.Maheswari, Staff Coordinator of EEE Association. Mr.N.Arun Kumar, Secretary of EEE Association delivered the welcome address. Ms.M.Manogari, Joint Treasurer of EEE Association threw lights on the guest of honor. Mr.B.Vigneshwaran, Asst.Prof of EEE Department presented the preamble of ALTANZIA.**

The principal honored our Guest of honor with a shawl. The guest of honor, Mr.N.Ramachandran, alumni of our college addressed the gathering. He referred that our college inculcates confidence in students. He advised the students to concentrate much in basic electrical and electronics concepts so that they can get placed in core companies. He added that placing in a core company is the purpose of our course. He encouraged the students to work hard towards a fixed goal. His words were very much inspiring and motivating.

The chief guest Mr.K.Jegan was introduced by Ms.A.Muthu Meena Sundari, Treasurer, EEE Association. The chief guest was honored with a shawl by our director Dr.Kn.K.S.K.Chockalingam. Then the chief guest inspired the audience with his aspiring speech. He made awareness that engineers should not limit their knowledge within a single domain. He advised the students to spread their knowledge in different fields. He shared his experience in being an expert in different domains. He asked the students to grab the opportunities whenever they get one. He added that opportunities can be created even. On behalf of our management, mementos were presented to our guests by our Director Dr.Kn.K.S.K.Chockalingam and our Principal Dr.S.Shanmugavel.

Then Launch for ALTANZIA'15 was launched by the chief guest. The launch was based on insisting the usage of non-conventional energy resources. The launch was technically stuffed by Mr.G.Besil Bala chandru and Mr.N.Sathyananthan of pre-final year. Then the prelims for the technical and non-technical events were conducted in the auditorium. After the inaugural, an interactive session was organized in which the guests interacted with our students. This session helped the students to boost up their technical skills. The guests shared their experience in a professional environment.



Inaugural Function – ALTANZIA '2k15



Memorable Moments – Valedictory Function



## **NINTH NATIONAL CONFERENCE ON**

### **“ADVANCEMENT OF NON CONVENTIONAL ENERGY RESOURCES USING INTELLIGENT CONTROL ALGORITHM” (ELCON’15)**

Department of Electrical & Electronics Engineering, National Engineering College has organized **Ninth National Conference on “Advancement of Non Conventional Energy Resources using Intelligent Control Algorithm” ELCON’15** on 20<sup>th</sup> March, 2015.



The inaugural function was started at 10.00 a.m. **Dr.S.Shanmugavel, Principal** of the College presided over the function in the august presence of **Dr.M.Willjuice Iruthayarajan**, Head of the Department of EEE. **Mr. C. Perumal, Assistant Executive Engineer, TANGEDCO, Thiruvengadam** and **Distinguished Alumni of our college was the chief guest (1998 Batch)**.



The Conference provided a common platform for the researchers over the globe to present their work in the field of Non conventional energy resources. Totally 39 participants from India participated in the conference. The valedictory function was started at 4.00 P.M at the EEE department Seminar Hall. As per the guidance given by the Head of EEE Department, Program Coordinators and other faculty members of Electrical & Electronics Engineering department have made elaborate arrangements for this function.

## SOCIAL AWARENESS CELL

### ELECTRICAL ENERGY

### CONSERVATION AND SAFETY



Social Awareness Cell of department of Electrical and Electronics Engineering has organized a One Day Social Awareness program on, “Electrical Energy Conservation and Safety” on 08.04.2015 for the village people (Mandhithoppu) near to our college. **Dr.M.Willjuice Iruthayarajan, Prof. & HOD** presided over the function. The staff incharges **Dr. M. Ravindran, Asso. Prof./EEE** and **Mr. N.B. Prakash, Asso. Prof./EEE** have briefed about the energy conservation and electrical safety. Our ultimate aim of the program is to bring out the future scarcity of Electrical Energy and their safety handling to village peoples through our young engineering buddies.

## GUEST LECTURE



Department of Electrical and Electronics Engineering organize a Guest Lecture for the II and III year students by **Dr.Mangal Sundar, Professor IIT Chennai** on 06.03.2015. He explained about the ways to login NPTEL and the importance of it. He discussed about the available video lectures and there are nearly 65 lectures for electrical department. He also said that the students preparing for GATE would be benefited with the help of these videos. He encouraged the students to make use of these videos to become technically strong.



Department of EEE organizes a Guest Lecture for the M.E students by **Mr.S.Manimaran, Crompton Greaves, Mumbai – Alumni 1989 Batch** on 11<sup>th</sup> Feb 2015. He suggested the students to do the projects in real time problems. He advised the students to be strong in basics.

## ALUMNI INTERACTION



**Mr.K.Jegan, Tech lead, Verizon Data Services India,  
Chennai**

- **Alumni 2003 Batch**

Mr. K. Jegan hosts the electrical and electronics department symposium “ALTANZIA2K15” as chief guest. He is also one of the alumni of the college. He did his bachelor degree (B.E) in EEE. Then he did his master degree (M.E) in CSE. Then he also did MCA in Anna university. He shares his personal experience during the inaugural function. He said that he did his schoolings in Tamil medium so that he faces many difficulties while entering into the engineering. And also added that he hasn’t realized its importance till his campus interview. So he requested the students to improve their technical and English knowledge which would help them in their future interviews. Then he made an energetic interaction with the students. He also quoted some incidents of his college life. He boosts the students with self-confidence. He also added that his company has a chance to recruit some student through campus interview in the upcoming years. He concluded the interactive session with a positive note and wishes the students the best in their future.



**Mr.N.Ramachandran, Sr.Electrical Engineer,  
Husmann Services India LLP, Bangalore**

- **Alumni 2005 Batch**

Mr. N. Ramachandran hosts the electrical and electronics department symposium “ALTANZIA 2K15” as guest of honor. He is one of the alumni of the college. He is working in the core field and advises the students to gain some technical knowledge. He gave a motivational speech among the students in the inaugural function. He also shares his own experience in his journey of life. He gives a short but energized speech. Then he made some interaction with the students about their future carrier. He further discusses about the present situation of our college and requests us to co-operate with the faculties in their efforts to make us a good engineers. During his interaction with the students, he asked the students to be bold and casual and not get tensed while attending the interview. At last, he wishes the students the best for their future.

## ENTREPRENEURSHIP DEVELOPMENT CELL



The ED [Entrepreneurship Development] Cell of EEE department of our college organized a program with chief guest as S.Utchimahali, (CEO) Vivekananda Constructions and Tamilan Promoters.

The program was organized at Seminar hall of dept. of EEE, Mr.G.Esakkimuthu, Asso.Prof (SG)/MECH Engg Dept. addressed the event and Mr.N.B.Prakash, Asso.Prof/EEE Dept delivered the Introduction of Office Bearers. Mr.A.Arun, Secretary, ED Cell/EEE Dept. gave the welcome address. Ms.G.K.Archana Dharsini, Student Co-ordinator, ED Cell/EEE Dept delivered the introduction of chief guest. Then Dr.P.Subburaj, Professor/EEE Dept honored the chief guest. At last Mr. Alwyn Prabhu, Join-Secretary, ED Cell/EEE Dept gave the vote of thanks.

S.Utchimahali who is a successful alumni of our department shared his experience and guidelines with the young members of ED Cell. He said that TIN, PAN and Bank Account all the elementary things to maintain bank transaction so that bank loan can be approached. Then he told that readiness to start a new business in zero state, making, healthy relationship is the pillars of entrepreneurship. He reminded that business like out of growing up a child.

### OFFICE BEARERS

<b>Secretary</b>	Mr. A.Arun – Pre Final Year ‘A’
<b>Joint Secretary</b>	Mr. B.Alwyn Prabhu – Pre Final Year ‘A’
<b>Student Co-ordinator</b>	Ms. K.Archana Dharsini – Pre Final Year ‘A’
<b>Members</b>	
	Mr. S. Natarajan - Pre Final Year-‘B’.
	Ms .K. Saktheeswari - Pre Final Year-‘B’
	Ms. R.Bavithra - 2 <sup>nd</sup> Year-‘A’.
	Mr .M.Arun Kumar - 2 <sup>nd</sup> Year-‘A’.
	Ms. M.Ramya Jemema - 2 <sup>nd</sup> Year-‘B’.
	Mr. B. Vijaya Sankar Vignesh - 2 <sup>nd</sup> Year-‘B’.

## INSTITUTE OF ENGINEERS IE(INDIA)

### Events Organized

#### Work Shop:

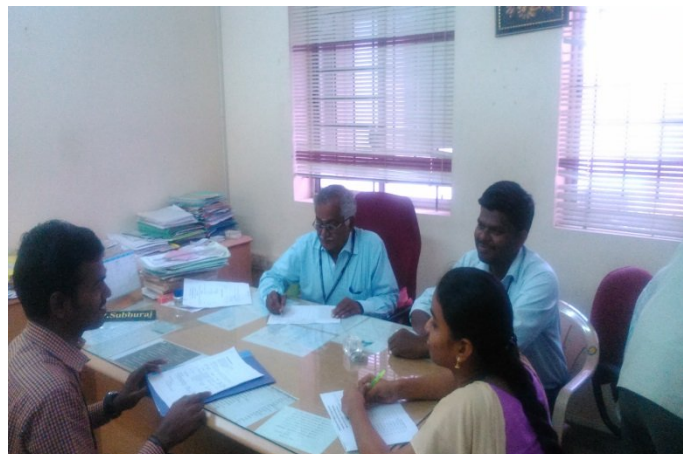
- 1) A Workshop on “**PSIM for Power Electronics**” was conducted for third year EEE students on all odd Saturdays of the Odd semester.

#### Other Events:

##### EVEN Semester:

- 1) The **GK tests** were conducted in every Monday and Wednesday. **9 tests** were conducted in even semester of 2014-2015. About **55 students** of second year were actively attended the exam.
- 2) The technical speech competition “**Tech-Talk**” were conducted for second year students. About **25 students** were participated in this competition. 19<sup>th</sup> Feb 2015.
- 3) The technical event “**Circuit Debugging**” was conducted in EEE department as two levels. **45 students** have participated in the preliminary round. **15 students** were short listed to attend the practical round in the Electronics lab on 16.02.2015.
- 4) “**Group Discussion**” was conducted for third year students in odd Monday of even semester.

## MOCK INTERVIEW



EEE Association & Department Placement forum combined and organizes a Mock Interview for III Year Students. The ultimate aim of the interview is to bring out the students from fear while facing interviews. The interviews were scheduled as two sessions. Totally 6 batches with 3 staff members are in the group. After Completion the students came to an idea of Do's and Don'ts in interview.

## Placement Details

On behalf of Chairman, Managing Director, Director, Principal, Head of the Department and staff members, we heartily congratulate the following final year EEE students who placed in Tessolve and Focus Academy for Career Enhancement during the month of March 2015.



Delivering Excellence in Semiconductor Engineering



Design Engineering
Test Engineering
PCB Engineering
Failure Analysis
System Design
Software Distribution



Mr. Mari Rajan. V



### Focus Academy for Career Enhancement

An IIM Graduates' Enterprise

Ms. Jeeva Winpray. S	Ms. MuthuMeenaSundari. A

## Article by Staff Member

### **PARTIAL DISCHARGE**

Dr.R.V.Maheswari

*Associate Professor*

*Department of Electrical and Electronics Engineering*

*National Engineering College*

#### **INTRODUCTION**

A significant trend in the development of electrical power equipment has taken place due to the increasing voltage level in the power transmission. This demands reliable power supply with reduction in cost for power transmission network maintenance. This in turn maximizes the performance and the life of the existing insulation components. Moreover, the life of the electrical apparatus solely depends on insulation condition. Today's environment of powerful microcomputers provides methods of machine intelligence for the diagnosis of insulation defects and a prognosis of service reliability.

With the increasing demand for reliable power supply, the role of condition monitoring systems becomes more important. When the condition of the electrical equipment warrants intervention, preventive maintenance can be carried out. Among the various diagnostic techniques, Partial Discharge (PD) measurement is considered as a promising tool for condition-based maintenance. PD is a nondestructive, nonintrusive testing and gives insight for identification of defect in the insulation system. Diagnosis of PD reveals the behavior of insulating material, which leads to reduce the fault occurrence and financial benefits of reduced life cycle costs for users. Thus, a good interpretation of the PD phenomenon forms the basis for the diagnostic system.

High Voltage Technology was introduced for electrical power transmission system, during the earlier part of the last century. PD has been recognized as a harmful source for insulation ageing in the HV apparatus. The PD recognition dates back to the year 1777, in which Lichtenberg reported on novel results of experimental studies during a session of Royal Society in Gottingen. Since then, many authors have presented their work about the detection and measurement of PDs, as well as study on the characteristics of PDs. Although it was almost 100 years before it could be clarified, it was Lichtenberg dust figures that manifested electrical discharge channels on the surface of the dielectrics.

#### **BASICS OF PD**

According to IEC 60270 (International Electrotechnical Commission), PD is defined as “localized electrical discharge, that only partially bridges the insulation between conductors and which may or may not occur adjacent to a conductor. Partial discharges are, in general, a consequence of local electrical stress concentration in the insulation or on the surface of insulation. Generally, such discharges appear as pulses having duration of much less than 1 $\mu$ s”.

PD activity, in general, is observed in high voltage power equipment like transformers, bushings and many others.

According to IEEE Standard 100-(1996), PD is “a localized electrical discharge resulting from ionization in an insulating system when the voltage stress exceeds the critical value. This discharge partially bridges the insulation between electrodes”.

PD usually begins within voids, cracks or inclusions within a solid dielectric, at conductor dielectric interfaces, between dielectric interfaces and in bubbles within liquid dielectrics. Since discharges are limited only to a portion of the insulation, it bridges partially the distance between electrodes. PD can also occur along the boundary between different insulating materials .

PDs within an insulating material are usually initiated in gas-filled voids within the dielectric because the dielectric constant of the void is considerably less than the surrounding dielectric. The electric field appearing across the void is significantly higher than across an equivalent distance of dielectric. If the voltage stress across the void is increased above the inception voltage, then PD activity will start within the void.

### **CLASSIFICATION OF PD**

PD phenomenon can be divided into two categories:

- External PD: PD occurring in air, also known as corona discharge.
- Internal PD: PDs occurring due to imperfections in insulating liquids, solid dielectrics and compressed gas.

PD can also be classified into the following types:

- Corona Discharge: It takes place in sharp points of conductor subjected to high voltage due to the non-uniformity of electric field. The insulation used for this discharge may be gas or air or liquid. This type of discharges appears for a long duration along the bare conductor.
- Surface Discharge: It takes place on gas/solid interfaces of dielectric materials. This usually occurs in bushings, end of cable, any point on insulator surface and between HV electrodes. This type of PD depends on permittivity of the dielectric materials used, voltage distribution between the conductors and properties of the insulating materials
- Treeing Channel: At the sharp edges of an insulating material, high intensity fields are produced, resulting in deterioration of the insulating material. This leads to a continuous PD known as Treeing.
- Cavity Discharge: This type of discharge occurs in solid or liquid insulating materials. The cavity is generally filled with gas or air. The electric field in tracks or holes inside the insulator is very intensive even if the cracks or holes are extremely small. When the gas in the cavity is over stressed, cavity discharge takes place.

### **EFFECT OF PD ON INSULATING SYSTEM**

PD causes progressive deterioration of the insulating material, eventually leading to electrical breakdown of the system. The effects of PD within HV voltage cables and equipment can be very serious. The collective effect of PD within solid dielectrics leads to treeing effect which causes the formation of numerous partially conducting discharge channels. Repetitive discharges cause irreversible mechanical and chemical deterioration of the insulating material. Damage is usually caused due to the energy dissipation by high energy electrons or ions from the



discharges and liberation of gases at high pressure due to chemical breakdown processes. The chemical deterioration of the dielectric is also responsible for increase in the electrical conductivity of the dielectric material surrounding the voids, which leads to increase in the electrical stress in the unaffected gap region, accelerating the ageing process. It finally leads to the breakdown of the insulating material.

In paper insulated HV cables, PD begins as small pinholes penetrating the paper windings that are adjacent to the electrical conductor or outer sheath. As PD activity progresses, it eventually causes permanent chemical changes within the affected paper layers and impregnating dielectric fluid. Finally conducting carbonized trees are formed. This creates large stress on the remaining insulation which further leads to increase in damaged region. The heating along the tree leads to tracking. This eventually culminates in the complete dielectric failure of the cable.

Another problem occurs when there is partly conduction due to pollution from moisture and in combination with dust settled on the coil surfaces outside of the slots. This leads to electrical tracking which eventually punctures the insulation. PD dissipates energy, generally in the form of heat, sound and light. Heat energy dissipation may cause thermal degradation of the insulation. The reliability of the HV apparatus can be confirmed by monitoring the PD activities throughout the equipment's life. To ensure supply reliability and long term operational sustainability, PD in HV electrical equipment should be monitored closely with early warning signals for inspection and maintenance.

### **FACTORS INFLUENCING PD MECHANISM**

The factors which influence the PD mechanisms and PD waveforms are

- Source voltage type, magnitude and polarity
- Pressure
- PD test circuitry
- Voltage above PD inception
- Presence of dielectric barrier
- Gas composition
- Electrode configuration
- Gap distance
- Temperature and humidity
- Ambient noise levels.

The AC and DC (positive and negative) as well as impulse voltage sources have been used for PD testing. Polarity effects and source voltage type are well known features associated with PD pulses at atmospheric pressure. Differences in PD pulse regularity, polarity, pulse shape and magnitude can be found with different sources.

PD phenomenon has been measured using the PD testing circuitry with the coupling capacitor placed in parallel with the series connection of the discharge gap and the measuring impedance. The influence of PD circuitry has been reported in the literature.

The probability that an electron initiates a PD and the rate at which free electrons are released into the high field region were functions of the applied voltage above onset. The influence of overvoltage on breakdown current and PD current pulse rise time with higher overvoltages were observed to be higher.

The discharge characteristics such as shape and amplitude of the discharge current, the streamer zone length and shape depended on the permittivity, shape and its position of the barrier relative to the needle electrode.

## PERSONALITY TO KNOW

### SIR CHARLES KUEN KAO

**The Honorable Sir Charles Kuen Kao** is a Chinese-born Hong Kong, American and British electrical engineer and physicist who pioneered in the development and use of fiber optics in telecommunications. Kao is known as the "*Godfather of Broadband*" and "*Father of Fiber Optics*".

Charles Kao was born in Shanghai in 1933. He completed his secondary education at St. Joseph's College in 1952. He did his undergraduate studies in electrical engineering at Woolwich Polytechnic. He then pursued research and received his PhD degree in electrical engineering in 1965 from University College London. Kao was the Vice-Chancellor (President) of the Chinese University of Hong Kong from 1987 to 1996. He then worked as the Chairman and CEO of Transtech



Services Ltd., a telecommunication consultancy company in Hong Kong. Kao was the keynote speaker at IEEE GLOBECOM 2002 in Taipei, Taiwan. In 2003 Kao was named a Chair Professor by special appointment at the Electronics Institute of the College of Electrical Engineering and Computer Science, National Taiwan University. In the 1960s at Standard Telecommunication Laboratories (STL) based in Harlow, Essex, Kao and his co-workers did their pioneering work in the realization of fiber optics as a telecommunications medium, by demonstrating that the high-loss of existing fiber optics arose from impurities in the glass, rather than from an underlying problem with the technology itself. His study first theorized and proposed to use glass fibers to implement optical communication, the ideas (especially structural features and materials) described are largely the basis of today's optical fiber communications. In 1965, Kao with Hockham concluded that the fundamental limitation for glass light attenuation is below 20 dB/km (*decibels per kilometer*, is a measure of the attenuation of a signal over a distance), which is a key threshold value for optical communications. However, at the time of this determination, optical fibers commonly exhibited light loss as high as 1,000 dB/km and even more. This conclusion opened the intense race to find low-loss materials and suitable fibers for reaching such criteria. In 1969, Kao with M.W. Jones measured the intrinsic loss of bulk-fused silica at 4 dB/km, which is the first evidence of ultra-transparent glass. Kao is also known as the "*Father of the Terabit Technology Concept*". Kao has published more than 100 papers and was granted over 30 patents; including the water-resistant high-strength fibers (with M.S. Maklad). He has a member of about 26 international organizations and has 17 honorary degrees. He has won more than 30 awards including Nobel Prize in physics for groundbreaking achievements concerning the transmission of light in fibers for optical communication in 2009.

*"If you really look at it, I was trying to sell a dream ... There was very little I could put in concrete to tell these people it was really real."*

- *Pranava Kartikeyan. M.S.,  
Third year EEE 'B'*

## TIME TO KNOW OUR ALUMNI

**K. JEGAN B.E (EEE), ME (CS), MBA (Finance)**

**Email:** [seenivasan.ramasubbu@hotmail.com](mailto:seenivasan.ramasubbu@hotmail.com)

**Contact:** +91 98406 20235

**PASSED OUT :** 2003

**CURRENT WORKING STATUS:** Tech Lead - Verizon Data Services India, Chennai.



### **EDUCATIONAL QUALIFICATION**

Examination passed	Name of the institution	University/ Board	Year of passing	Class
M.E (Computer Science)	VELS University, Chennai	VELS University, Chennai	April 2013	First Class
M.B.A (Finance)	Loyola College, Chennai	Pondicherry University	April 2008	First Class
B.E (Electrical and Electronics Engg.)	National Engineering College, Kovilpatti.	Manonmanium Sundaranar University, Tirunelveli, Tamilnadu.	April 2003	First Class with Distinction

### **PROFILE SUMMARY**

#### **WORKING EXPERIENCE**

##### **1. Verizon, Chennai.**

Company : **Verizon Data Services India, Chennai.**  
 Designation : Tech Lead  
 Field : **.NET Framework (ASP.NET, VB.NET, C#.NET, SQL SERVER, Oracle)**  
 Duration : From May 2007 to Till date

**2. iSoft R&D Private Limited, Chennai.**

Company : **iSoft R&D Private Limited, Chennai.**  
 Designation : Software Engineer  
 Field : **.NET Framework (ASP.NET,VB.NET,C#.NET,SQL SERVER, Oracle)**  
 Duration : From January 2006 to May 2007

**3. Calsoft Co.Ltd. Chennai.**

Company : **Calsoft Co ltd. Chennai.**  
 Designation : Software Engineer  
 Field : **.NET Framework (ASP.NET,VB.NET, SQL SERVER 2000)**  
 Duration : From January 2005 to January 2006

**4. Z-Axis Innovations Pvt. Ltd. Chennai.**

Company : **Z-Axis Innovations Pvt. Ltd. Chennai.**  
 Designation : Developer  
 Field : **.NET Framework (ASP.NET,VB.NET, SQL SERVER 2000)**  
 Duration : From June 2003 to December 2004

**PROJECTS****Verizon Data Services India****1 . RMiCollect**

From : May - 2007 To : Till Date  
 Tools Used : C#.NET,ASP.NET, SQL Server 2000, Oracle, Javascript , XML  
 Designation : Tech Lead  
 Team Size: 8  
 OS / Server : windows 7/XP/IIS  
 Role : Tech Lead responsible for the delivery of the work requests

- RMiCollect is the web based application used by the call center representatives who is involved in the collection activities.
- This application handles the treatment activities needs to be done on the delinquent customers based on the predefined rules.
- As a tech lead I am responsible for the iproper communication with the counterparts, designing the tasks, development and on time delivery of the work requests without any issues.

**Computer Skills**

Operating Systems : Windows 7, 8.  
 Languages : C, C++, VB.NET,C#.NET, ASP.NET,ADO.NET  
 Databases : SQL Server.  
 Scripting Tools : Viewpoint, Atmosphere, Action Script  
 (Flash MX), javascript  
 Packages : Foxpro.

Students AchievementsSecond Year 'A'

S.No	Name	Event	Venue	Rewards	Date
1	E.AbbiramyDevibala	Mehandi design	Fine Arts Club – National Engineering College	2 <sup>nd</sup> prize	23-02-2015 to 27-02-2015
		Best buddies	Fine Arts Club – National Engineering College	Participation	
2	A.AcsalPremiSubha	Best buddies	Fine Arts Club – National Engineering College	Participation	23-02-2015 to 27-02-2015
3	J.Aksha	Spell bee& Best buddies	Rotract Club– National Engineering College	Participation	March 2015
		Connections	Fine Arts Club – National Engineering College	Participation	23-02-2015 to 27-02-2015
		Story writing	Fine Arts Club– National Engineering College	Participation	02-03-2015to 05-03-2015
		Paper presentation	Jaycee Club – National Engineering College SIG – NEC	Participation	21-02-2015
4	K.Abirami	Best buddies	Fine Arts Club – National Engineering College	Participation	23-02-2015 to 27-02-2015
		Story writing	Jaycee Club – National Engineering College	Participation	02-03-2015to 05-03-2015
		Connections	Fine Arts Club–	Participation	23-02-2015 to 27-02-2015

			NEC		
5	K.Maheswari	Best buddies	Fine Arts Club – National Engineering College	Participation	23-02-2015 to 27-02-2015
		Connections	Fine Arts Club– National Engineering College	Participation	
		Paper presentation	SIG – National Engineering College	Participation	21-02-2015
6	C.Jayashree	Paper presentation	SIG– National Engineering College	2 <sup>nd</sup> prize	21-02-2015
		Surprise event	Fine Arts Club– National Engineering College	Participation	23-02-2015 to 27-02-2015
		Connections	Fine Arts Club – NEC	Participation	
7	F.Blessintha	Best buddies	Fine Arts Club – National Engineering College	Participation	23-02-2015 to 27-02-2015
		Surprise event	Fine Arts Club– National Engineering College	Participation	
8	K.Kiruthika	Surprise event	Fine Arts Club - National Engineering College	Participation	23-02-2015 to 27-02-2015
9	G.Esakkiammal	Paper presentation	SIG– National Engineering College	Participation	21-02-2015
		Connections	Fine Arts Club– National Engineering College	Participation	23-02-2015 to 27-02-2015
		Surprise event	Fine Arts Club– National Engineering College	Participation	
		Shot-put	Sports Day-NEC	Participation	26-03- 2015

10	S.Kalaiveni	Paper presentation	SIG– National Engineering College	Participation	21-02-2015
11	M.Jennifer	Paper presentation	SIG– NEC	Participation	21-02-2015
12	S.Gulshan	Mehandi design	Fine Arts Club – National Engineering College	2 <sup>nd</sup> Prize	23-02-2015 to 27-02-2015
		Dance (group)	Women’s Day – National Engineering College	1 <sup>st</sup> Prize	21-03-2015
		Carom	Sports Day- National Engineering College	Winner	26-03-2015
		Disc throw, Shot-put , Javelin throw , Tug of war , 400 meters , Shuttle , Throw ball	NCC sports day- National Engineering College	2 <sup>nd</sup> Prize Participation	March 2015
13	A.AmalaAani	Verse writing	Fine Arts Club – National Engineering College	1 <sup>st</sup> Prize	23-02-2015 to 27-02-2015
		Story writing	Jaycee club– National Engineering College	Participation	02-03-2015 to 05-03-2015
		Spell bee	Fine Arts Club– NEC	Participation	23-02-2015 to 27-02-2015
		800 meters running, 200 meters running 100meters running	Sports Day- National Engineering College	Participation	26-03- 2015
		400 meters running	NCC -National Engineering College	2 <sup>nd</sup> Prize	March 2015
		Tug of war	NCC-National Engineering College NCC Sports Day - National Engineering College NCC Sports Day -	Participation 1 <sup>st</sup> Prize 2 <sup>nd</sup> Prize	

		Ball badminton	National Engineering College	Participation	23-02-2015 to 27-02-2015
		Face painting	Fine Arts Club – National Engineering College	Participation	
		Mehandi design	Fine Arts Club – National Engineering College	Participation	March 2015
		Javelin throw	NCC Sports Day - National Engineering College	Participation	
		Disc throw	NCC Sports Day - National Engineering College	Participation	
		Shot –put	NCC Sports Day - National Engineering College		
<b>14</b>	R.Anusuya	Paper presentation	SIG– National Engineering College	Participation	21-02-2015
		Mime	Women’s day– National Engineering College	<b>2<sup>nd</sup> Prize</b>	21-03-2015
		100 meters running	NCC Sports Day - National Engineering College	Participation	March 2015
		Rope climbing	NCC Sports Day - National Engineering College	<b>1<sup>st</sup> Prize</b>	
		400 meters	NCC Sports Day - National Engineering College	Participation	March 2015
		Throw ball	NCC Sports Day - National Engineering College	<b>Winner</b>	



15	B.Jerlin	Best manager	Fine Arts Club– National Engineering College	Participation	23-02-2015 to 27-02-2015 21-02-2015
		Paper presentation	SIG– National Engineering College	2 <sup>nd</sup> Prize	
		Disc throw	NCC Sports Day - National Engineering College	1 <sup>st</sup> Prize	March 2015
		Shot-put	NCC Sports Day - National Engineering College	3 <sup>rd</sup> Prize	
		Tug of war, Throw ball	NCC Sports Day - National Engineering College	Participation	
16	S.Abinaya	Mime	Women’s Day- National Engineering College	2 <sup>nd</sup> Prize	21-03-2015
		200 meters, 100 meters	Sports Day- National Engineering College	Participation	March 2015
		Story writing	Jaycee club	Participation	02-03-2015to 05-03-2015
17.	J.Caroline Joy	Mime	Women’s Day – National Engineering College	2 <sup>nd</sup> Prize	21-03-2015
		Drawing	Women’s Day – National Engineering College	1 <sup>st</sup> Prize	
		200 meters	Sports Day- National Engineering College	3 <sup>rd</sup> Prize	March 2015
		100 meters	Sports Day- National Engineering College	2 <sup>nd</sup> Prize	
		Relay	Sports Day- National Engineering College	3 <sup>rd</sup> Prize	
			Sports Day- National Engineering College	3 <sup>rd</sup> Prize	7-03-2015

		Project expo	SIPRO– National Engineering College	Participation	21-02-2015
		Paper presentation	SIG– National Engineering College	Participation	
		Face painting	Fine Arts Club– National Engineering College	Participation	23-02-2015 to 27-02-2015
		Mehandi design	Fine Arts Club– National Engineering College	Participation	02-03-2015to 05-03-2015
		Drawing	Jaycee club– National Engineering College		
<b>18</b>	S.Kirthika	Paper presentation	SIG– National Engineering College	Participation	21-02-2015
		200 meters, Shot-put, 800 meters	Sports Day- National Engineering College	Participation	26-03-2015
<b>19</b>	S.Kavitha	Paper presentation	SIG– National Engineering College	Participation	21-02-2015
		Shot-put	Sports Day- National Engineering College	Participation	26-03-2015
		Best buddies	Fine Arts Club– National Engineering College	Participation	23-02-2015 to 27-02-2015
		Connections	Fine Arts Club– National Engineering College	participation	
<b>20.</b>	R.Bavithra	Paper presentation	SIG– National Engineering College	<b>3<sup>rd</sup> Prize</b>	21-02-2015
		TECH-Talk	IE- National Engineering College	<b>1<sup>st</sup> Prize</b>	19-02-2015

21.	K.Madasamy @ Yuvaraja	NSS- Polio Camp	Kovilpatti	Participation	22-02-2015 to 24-02-2015
22.	S.Ganapathy Vinayagam	Paper presentation	SIG- National Engineering College	Participation	21-02-2015
23.	R.Harisankar	Paper presentation	SIG- National Engineering College	Participation	21-02-2015
24.	S.Abdul Rahuman	Paper presentation	SIG- National Engineering College	Participation	21-02-2015
25.	S.Mohamed Suber	Paper presentation	SIG- National Engineering College	Participation	21-02-2015
26.	S.Alagu selva kumar	Paper presentation	SIG- National Engineering College	Participation	21-02-2015
27.	N.Deepan Raj	Paper presentation Shuttle Connections	SIG- National Engineering College Sports Day- National Engineering College Fine Arts Club- National Engineering College	Participation <b>1<sup>st</sup> Prize</b> Participation	21-02-2015 26-03-2015 23-02-2015 to 27-02-2015
28.	M.Jegan	Best Buddies Video Quiz Treasure Hunt Connections	Fine Arts Club- National Engineering College Intra Intesy- National Engineering College Rotract Club- National Engineering College Fine Arts Club- National Engineering College	<b>1<sup>st</sup> Prize</b> Participation <b>Winner</b> Participation	23-02-2015 to 27-02-2015 19-03-2015 23-02-2015 to 27-02-2015 23-02-2015 to 27-02-2015
29.	C.Derick	Best Buddies	Fine Arts Club- National Engineering	<b>1<sup>st</sup> Prize</b>	23-02-2015 to 27-02-2015

		Video Quiz	College Intra Intesy- National Engineering College	<b>Participation</b>	19-03-2015
		Treasure Hunt	Rotract Club- National Engineering College	<b>Winner</b>	23-02-2015 to 27-02-2015
<b>30.</b>	T.Ajith Kumar	Kabadi	Sports Day – National Engineering College	<b>Runner</b>	26-03-2015
		Volley Ball	NCC Sports Day– National Engineering College	<b>Runner</b>	March 2015
<b>31.</b>	A.PraveenVenkatesh	Treasure Hunt	Rotract Club- National Engineering College	<b>Winner</b>	23-02-2015 to 27-02-2015
<b>32.</b>	L.R KausikaLakshmanan	Treasure Hunt	Rotract Club- National Engineering College	<b>Winner</b>	23-02-2015 to 27-02-2015
<b>33.</b>	K.Ganeshamoorthy	Story Writing	JayceeClub- National Engineering College	Participation	2-03-2015 to 5-03-2015

## Second Year 'B'

S.NO.	NAME	EVENT	VENUE	REWARDS	DATE
<b>1.</b>	RM Vishnu G Saravana Kumar K Peratchi Hariharasudhan B Vijaya Sankar Vignesh	Workshop on mobile making	Madras Institute of Technology, Chennai	Participation	14-3-2015 & 15-3-2015
<b>2.</b>	V.M. Vignesh T Titus Paul N Vignesh	Workshop on Arduino			14-3-2015
<b>3.</b>	S Zainy Mohammed Yousuf RG Prejith A.RamaSubramaniam	Connections	FASE, Fine arts club ,National Engineering College	<b>Winners</b>	23.03.2015 – 27.03.2015

4.	S Zainy Mohammed Yousuf	Tennis	Sports Day, National Engineering College	Winner	26-3-2015
5.	M Raja Durai			Runner Up	
6.	RM Vishnu B VijayaSankarVignesh K Srinath			Participation	
7.	V Ramesh (lateral) K Rajesh	Circuit Debugging Paper presentation	National Engineering College	Winner	25-2-2015
				Participation	
8.	A Prem Kumar	Badminton	Sports Day, National Engineering College	Winner	26-3-2015
		400m running		2 <sup>nd</sup> prize	
9.	A Suvetha	Relay		3 <sup>rd</sup> Prize	
10.	A Rama Subramaniam A Prem Kumar V Vishnu Kumar RG Prejith M Vigneshwaran M Raja Durai	Mime	FACFO, Fine arts club ,National Engineering College	Participation	2-4-2015
11.	M Muthuselvi	Dance			
12.	VM Vignesh S Zainy Mohammed Yousuf	paper presentation	Special Interest Group, Department Of EEE, National Engineering College	2 <sup>nd</sup> prize	31-1-2015
13.	A Suvetha M Muthuselvi			1 <sup>st</sup> prize	
14.	R Sumitra S Uma devi	Paper Presentation	Special Interest Group, Department Of EEE, National Engineering College	Participation	21-2-2015
15.	S Renganayaki K Sasthika				
16.	S Priyatharsini S Sheeba Nancy Thangam				
17.	S Sripriya	Paper Presentation	Special Interest Group, Department Of EEE, National Engineering College	Participation	21-2-2015
18.	K Soundarya A Primika				
19.	M Sudha M VeniPriya				
20.	S Vigneshwari B ShanmugaNithya				
21.	S Sathya N Nandhini				
22.	S Vensiya P Muthupriya	Paper Presentation	Special Interest Group, Department of EEE, National	Participation	21-2-2015
22.	K Prema				

	M Poolammal		Engineering College		
23.	N UshaNandhini S VaishnuPriya				
24.	G Shiva Sankari K Uma Devi	Paper Presentation	Special Interest Group, Department Of EEE, National Engineering College	Winner	21-2-2015
25.	T Viniza S Vijayalakshmi			Participation	
26.	S.Veni priya J.Manisha Mariel Raj	Dance	FACFO, Fine arts club ,National Engineering College		2-4-2015

### Third Year 'A'

S.NO	NAME	EVENT	VENUE	REWARDS	DATE
1.	A.Mariappan R.Muneeswaran R.Manikandan M.Manikandan Iyappan I.Kaleeswaran	Workshop	National Institute of Technology, Trichy	Participation	1-2-2015
2.	S.Kanagavalli A.JeniferRomina		PSG College of Engineering		14-2-2015 to 15-2-2015
3.	V.Anitha S.Muthumeena V.Amsaveni P.Esaivani		Amrita School Of Engineering, Coimbatore		6-3-2015
4.	P.AmalaPriya P.Esaivani		Mepco Schlenk College of Engineering, Sivakasi		20-2-2015
5.	A.Mariappan	CircuitRix Electronic Arts	National Institute Of Technology, Trichy	Participation	1-2-2015
6.	G.K.ArchanaDharsini	Paper Presentation	Central Electrochemical Research Institute, Karaikudi	I prize	February 2015
7.	P.Balamurugan	Debate	Fine Arts Club,National Engineering College	Best Orator	23 -2-2015
8.	M.Akila	Vegetable Carving		III prize	to 27-2-2015
9.	K.Karpagavalli B.Deivashree	Rangoli		II prize	

10.	A.Anto Sharon Prakash	Verse Writing		II prize	
11.	A.Balachandar A.Anto Sharon Prakash	Paper Presentation	Indian Institute Of Space Science and Technology, Trivandrum	Participation	20-3-2015
12.	K.Sathiyamoorthy (PG scholar) M.Manikandan A.Anto Sharon Prakash	National Conference	Kamaraj College Of Engineering and Technology, Virudhunagar		27-3-2015
13.	A.Anto Sharon Prakash	Voter and Aadhar Card rally(NSS)	Kovilpatti	Participation	19-3-2015

### SIPRO 2k15 – Project Expo

BATCH	NAME	TITLE	REWARDS
1.	S.P.Atul Krishna G.Aneruth Mani M.Balakrishnan A.BalaChandar	Stress Meter based on principle skin resistance	Participation
2.	G.Levokka G.Antany Mekala B.Deivashree G.Muthu Lakshmi	Automatic Plant Watering System using Grey water	
3.	J.Anitha V.Amsaveni	Music Piano	
4.	R.Felshiya Rajakumari R.Nanthini Dhanalakshmi	Automatic Plant Irrigation System using microcontroller	
5.	P.Amarnath M.Gurusamy K.Ashok Kumar M.Kesavamani	LPG gas leakage alarm circuit	

Third Year 'B'

S.No	Name	Event	Venue	Rewards	Date
1.	C.Subashini	Clickomania	Jaycee Club- National Engineering college,Kovilpatti	<b>1<sup>st</sup> Prize</b>	05-03-2015
2.	G.S.Prema Nayagi	Story Writing	Jaycee Club- National Engineering college,Kovilpatti	<b>1<sup>st</sup> Prize</b>	03-03-2015
3.	P.Sathya	Throw Ball	Sports Day- National Engineering college, Kovilpatti	<b>Winner</b>	26-03-2015
4.	R.Sneha	Ball Badmitton	Sports Day- National Engineering college, Kovilpatti	<b>Winner</b>	26-03-2015
5.	R.Sunitha, N.Indhumathy	Circuit Debugging	Kalasalingam Institute of Technology, Srivilliputhr	<b>Second Prize</b>	18.03.2015
		Paper presentation		Participation	
6.	R.Visnu Vidya	Paper presentation	Mepco Schlenk Engineering College, Virudhunagar	<b>First Prize</b>	21.02.2015
7.	P.Shanmugam	5000m Run	Sports Day- National Engineering college, Kovilpatti	<b>2<sup>nd</sup> Prize</b>	26-03-2015
		Hockey		<b>Winner</b>	26-03-2015
		5000m Run	NCC- National Engineering college, Kovilpatti.	<b>1<sup>st</sup> Prize</b>	07-03-2015
		4*4 Relay		<b>3<sup>rd</sup> Prize</b>	
		Tug of War		<b>1<sup>st</sup> Prize</b>	
		Foot Ball		<b>1<sup>st</sup> Prize</b>	
		Hockey		<b>1<sup>st</sup> Prize</b>	
8.	M.S.Pranava Kartikeyan	Volley Ball	<b>1<sup>st</sup> Prize</b>		
		4*4 Relay	<b>3<sup>rd</sup> Prize</b>		
		Tug of War	<b>1<sup>st</sup> Prize</b>		
		Rope Climbing	<b>2<sup>nd</sup> Prize</b>		
9.	S.Rama Subramanian M.Pradeep D.Ramkumaran G.Varatharajan M.Rajkumar M.Shunmugaraj M.Rathna Priya	Electrical Energy Conservation And Safety	Social Awareness Cell- Mandhithoppu, Kovilpatti.	Participation	08.04.2015



10.	M.S.Pranava Kartikeyan S.Santhosh Kumar P.Suresh Kumar M.Sathianarayanan	Smart Homes And Security System	SIPRO 2k15- National engineering college, Kovilpatti.	Participation	
11.	R.Uma Maheswaran M.Subbiah S.G.Sivaram V.Vignesh Kumar	Hidden Active Mobile Phone Dtector			

### **VARIOUS ACTIVITIES BY OUR STUDENTS AS ORGANIZERS**

1. P.Shanmugam – III Year EEE B

***Organiser - Cycle Rally***

2. M.S.Pranava Kartikeyan – III Year EEE B

***Organiser - Trekking Camp (Sathuragiri)***

***Polio Drops Camp***

3. P.Sathyananthan – III Year EEE B

***Best Overall Co-ordinator***

## Memorable Moments



Our 3<sup>rd</sup> year students Ms.Sunitha.R and Ms.Indumathy.N won 1<sup>st</sup> Prize in Circuit Debugging held at Kalasalingam Institute of Technology



Our Final year student Ms.Mariselvi@abitha won Best Academic Excellences in Alumni Induction Program



Our Final year student Mr. Venkat Subramanian. A won Best Extracurricular Excellences in Alumni Induction Program



Our 3<sup>rd</sup> year student Ms.Manogiri won the overall Championship – Women in the College Sports Day 2015



Our 2<sup>nd</sup> year student Ms.Caroline Joy won Prize in the College Sports Day 2015



Our 3<sup>rd</sup> year student Ms.Sathya won 1<sup>st</sup> Prize – Throw Ball in the College Sports Day 2015



Our 3<sup>rd</sup> year student and Sports meet Joint secretary Mr. Shanmugam.P won 5000mts 2<sup>nd</sup> in the College Sports Day 2015



Our 3<sup>rd</sup> year student Mr. Shanmugam.P welcome the gathering in the College Sports Day 2015



Our Final year student Mr. Mathan Kumar got Best IEEE Student Chapter Volunteer



Our 3<sup>rd</sup> year student Mr. Shanmugam.P got Best IE (I) Volunteer for the academic year 2014-15.



Our Student Activities in Social Awareness Program



Our Final year Student Mr. Vignesh.K.S gave an Guest Lecture in the topic "PHOTOSHOP" in IEEE Student Chapter

## Placement Achievements Academic Year (2014 – 2015)



“Coming together is a beginning; keeping together is progress; working together is success”

-Henry Ford

## EEE NEWSLETTER

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