

POWER Information 17

ENGINEERED TO MOVE HUMAN SPIRITS.....

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Department of ELECTRICAL AND ELECTRONICS ENGINEERING



Presented By

PERI
INSTITUTE OF TECHNOLOGY



Mr. Saravanan Periasamy
CHAIRMAN

I am proud to have students from Electrical and Electronics Engineering department to come up with such a good collection of information. I would like to encourage them to continue their good work.

Mr. Sasikumar Veerarajan
COO

I congratulate all the students who have put their effort in bringing forth this newsletter of their department and also I like to congratulate all the faculty members and the HOD for motivating their students towards this fulfilment.



Dr. R. Palson Kennedy
PRINCIPAL

The department Newsletter will definitely help to show case the activities that are happening in EEE department. It provides a platform for exposing the merits and academic achievements of the faculty and students. This would positively create an impact in the minds of readers, by way of providing larger perceptibility and dimension to the department I congratulate all team members for their constant efforts in bringing this news letter for this academic year 2016-17.

ELECTRICAL AND ELECTRONICS ENGINEERING

The Department of **Electrical and Electronics Engineering** has been an integral part of this **PERI institute of Technology** and it was established in the year **2010** with a sanctioned intake of 60 students

The Department also offers a Post Graduate Course in **Power Electronics and Drives** from the academic year 2014 – 2015.

The Department maintains high quality of **teaching** and learning process with the help of well **qualified faculty** members who are all post graduates and the faculties are focusing on achieving **good results** in the University examinations and pay **individual attention** to the students and train them to their

In addition to the academics, the students are encouraged to present papers in **technical symposiums and conferences**.

Industrial visits and industrial tours have been arranged for the students every semester to gain exposure on the real **industrial scenario**.

Guest lecturers also have been organized for the students in which academic scholars and **experts** from various industries **share** their experiences and impart knowledge about the **latest developments** in the field of **Electrical and Electronics**

Placement and Training sessions are arranged to equip the students with skills in the areas of interpersonal **communication, ethics, team work and project management** from the first semester onwards.

The department has well equipped **laboratories** such as Electrical machines, control and Instrumentation lab, electrical circuits, power electronics, Power system simulation Lab.

Company **internship** and inplant **training** programmes are arranged for the students to develop their **industrial knowledge**

As an added feather to **EEE** Department, it brings out the news letter for disseminating and sharing the **academic** and **non academic** major **achievements** and **activities** of the students and



ASSOCIATION OF EEE “ELYSIAN” INAUGURATION



The association of EEE “ELYSIAN” inaugural function was initiated with invocation and the traditional lighting of lamp on 02.09.2012. Principal **Dr.S.Senthil Velan**, encouraged the students to gain excellent knowledge in the field of **Electrical and Electronics of Engineering** and also motivated the students to do lot of activities under **Association Banner**. The chief Guest **Dr.Sundararajan**, M.E, Phd, addressed the gathering and he expressed his wish that the EEE department to come forward and conduct all the forthcoming events.



ASSOCIATION OF EEE - TECHNICAL SEMINAR



One day technical seminar on “MHD Power generation” was conducted by the Association of EEE on 12 th August 2013, addressed by Prof. V.R.Ramkrishnan, BHEL/Trichy.



One day technical seminar on “Power System Switchgear and protection” was conducted by the Association of EEE on 10.10.2013, addressed by Mr. Thamaraiselvan, AE/TNEB.



One day technical seminar on “BASICS OF POWER SYSTEM” was conducted by the Association of EEE on 20.07.2016, addressed by Mr. J.Balamurugan AE/CC/INET/HQRAS, TANGEDCO, Chennai.

DEPARTMENT OF EEE NATIONAL CONFERENCE

A one day national conference on Pure Emphatic Research in Science & Engineering “**PERISE 2016**” jointly organized by all the engineering departments of **PERI IT** was conducted on 7th April 2016.

Dr.T.V Gopal, Professor in the department of Computer Science and Engineering ,College of Engineering ,Guindy, Anna university , Chennai, inaugurated the conference and delivered the inaugural address. The Principal of PERI IT **Dr.R.Palson Kennedy** welcomed the gathering and presented the keynote address.

Participants of the conference from various universities and colleges participated in the event and presented their papers. The participants were Teachers, researchers, Scholars and students from various **Universities and colleges**. Among the papers received around 80 papers have been shortlisted and were presented in the conference. The Proceedings of the conference was released by our distinguished chief guest.



CONVOCAATION 2015

The first **Graduation day** was held on August, 2015 for the passed out students of 2014 at the college conference hall for various department graduates.

Our principal **Dr.R.Palson kennedy** welcomed the gathering and honoured the Chief Guest, **Dr.S. Krishnakumar** senior Technical Officer, Ministry of Defence –DRDO, Avadi.

The Principal also welcomed the esteemed guests, **Mr.Saravanan Periasamy**, Chairman, PERI IT and **Mr. Sasikumar Veerarajan**, COO, PERI IT and presented the Graduation day report.

The Chief Guest **Dr.S.krishnakumar** delivered the Graduation day address and presented the Degree to the new graduates.r maximum potential.

After the award of degrees the graduates took the pledge to be honest in the discharge of their duties and serve for the cause of the nation.

Special cash awards and medals were given to the University rank holder and Topper in each department.



CONVOCAATION 2016

The **Second Graduation Day** was held on 03 July 2016 for the passed out students of 2015 at the college conference hall for various department graduates.



Our principal **Dr. R.Palson Kennedy** welcomed the gathering and presented the Graduation report. A warm welcome address was given by our esteemed principal, Dr.R.Palson Kennedy. He welcomed and honoured the Chief Guest, Honourable Justice



The Principal also welcomed the esteemed guests, **Mr.Saravanan Periasamy**, Chairman, PERI IT and **Mr. Sasikumar Veerarajan**, COO, PERI IT.

Under Graduate students from the department of Civil, Computer science engineering, ECE, EEE and Mechanical Engineering and post graduate students from Computer science, ECE and EEE have graduated from our college. Special cash awards and medals were given to the university rank holders and toppers in each department.



DEPARTMENT OF EEE SYMPOSIUM

The National Level Technical Symposium **EXPERITZ 2K15** was held at **PERI Institute of Technology** on 16th September 2015. The symposium was organised by the Departments of EEE, ECE and CSE.



The students of **PERI institute of technology** worked with full interest, dedication and cooperation with the staff members for organizing various technical and non-technical events.



Mr. Stanley George, vice President and head HR, Hexaware Technologies Ltd., delivered the inaugural address and the students were enlightened by his thought provoking speech. Our principal **Dr. R. Palson Kennedy** interacted with the participants and insisted them to update their knowledge in current trends and emerging technologies. This symposium was a great benefit to young budding engineers to explore their technical knowledge and talents.



DEPARTMENT OF EEE INDUSTRIAL VISIT

The EEE department of PERI Institute of technology organized a one day Industrial visit to **400 KV Substation**, Sriperumbuthur, Chennai, Tamilnadu on 13 th August, 2013 for third year Electrical Engineering studenst.



The EEE department of PERI Institute of technology ,organized a three day Industrial visit to **TRACO Cable company Pvt limited**,Kerala on August, 2016 for for final year Electrical Engineering students.



The EEE department of PERI Institute of technology organized a one day Industrial visit to **Neyveli Lignite Corporation (NLC)** Neyveli,Tamilnadu on 29 th September 2016 for 3rd year EEE students.

The EEE department of PERI Institute of technology organized a two days Industrial visit to **KUNDA Hydro Power Plant**, Ooty,Tamilnadu on 9 th March 2015 for 3rd year EEE students.



DEPARTMENT OF EEE

FACULTY DEVELOPMENT PROGRAMME

One day faculty development programme on “**latest methods on Teaching**”, was conducted in our institute on 9 th July 2016.

Mr. Arun kumar, Innovative solutions Trainer,an excellent personality developer explained all aspects of latest methods on Teaching,he has sound knowledge on Teaching learning process ,and versatile trainer in motivating the staff .he pointed out the ways to develop teaching & learning process so as to improve the results and to mould the character of engineering students.



SOCIAL ACTIVITE

YRC of PERI Institute of Technology organized one day blood donation camp on 12 th March 2016 held in PERI campus.The event started at 10.30.A.m with welcome address by the Principal Dr.R.palson kennedy and delivered a cheerful speech about blood donation.



NSS unit of PERI IT marked a trademark through its social activities and the NSS unit organized the Temple clean up day on 18 th March 2016 at **Manneswar Temple**, Mannivakkam,Chennai.



Placement day-2017

Krishnabharathi of final year EEE receiving offer letter from **Mr.Sasiveerarajan**, COO,PERIIT on placement day



JOURNAL PUBLICATIONS AND CONFERENCE PAPER PRESENTATIONS BY OUR FACULTIES AND STUDENTS

1. **Ms. Lakshmi S**, presented a paper titled "REVIEW ON DESIGN AND ANALYSIS OF INTER LEAVED BOOST CONVERTER FOR PHOTOVOLTAIC APPLICATIONS" in IEEE - International conference on control instrumentation communication and Technologies (ICCICCT-2014)
2. **Ms. Sujitha K.P** of second year ME PED student presented a paper titled "Design and implementation of sliding mode controller based bidirectional Double boost DC to DC Converter With Renewable Energy Resources" in a National conference 'PERISE 2016'
3. **Mr. Ramachandran** of Final year EEE presented a paper titled "Multi Power Generation System for Automobile " in a National conference 'PERISE 2016'
4. **Ms. Lakshmi S** presented a paper titled "AN INTERNAL DC UPS WITH SMPS FEATURES" in National Conference "Advances in Electrical engineering"
5. Ms. Lakshmi S presented a paper titled "IMPLEMENTATION OF HIGH EFFICIENCY CLASS E RESONANT INVERTER USING PULSE DENSITY MODULATION TECHNIQUE" in a National Conference on "Recent trends in Electrical and Electronics Engineering"(NCRTEE)
6. **Adonijah Bernice Chullai** of Second year ME PED student presented a paper titled "Design and implementation of small scale wind energy System With HES For Dump power Control in Raps System in a National conference 'PERISE 2016'
7. **Ms. Lakshmi S** presented a paper titled" COMPARISION OF SYMMETRICAL AND ASYMMETRICAL MULTILEVEL INVERTER MY SELECTIVE HORMONIC ELIMINATION METHOID" in a National Conference on "Recent trends in Electrical and Electronics Engineering "(NCRTEE).
8. **Ms. Akshaya J and Ms. Bakhyalakshmi M** of final year EEE student presented a paper titled "Hand Gesture Controlled Home Appliances Using Rasberry Pi -Scintilla Gesticulator" in a National conference 'PERISE 2016'
9. **Ms. Arthi and Ms. Divya Merlin** of Final year EEE students presented a paper titled on Raspery Pi based wireless Industrial Automation system in a National conference 'PERISE 2016'
10. **Ms. Lakshmi S** presented a paper titled "DESIGN AND ANALYSIS OF FOUR PHASE HIGH GAIN INTERLEAVED BOOST CONVERTER FOR SPV APPLICATIONS" has been communicated to "JOURNAL OF ELECTRICAL ENGINEERING ", yet to be published.
11. **Ms. Monish.R** a of 2 nd year ME PED student presented a paper titles "Power Quality Improvement In the Grid system Using PV based Active power filters in a National conference 'PERISE 2016'
12. **Mr. Nandakumar P.K** of 2nd year ME PED student presented a paper titled "Design and Implementation of Nine Level Inverter for Solar Energy System" in a National conference 'PERISE 2016'

CO-CURRICULAR ACTIVITIES

Asheek Ali and Mohamed Vahid Meeran of 3rd EEE students won the First prize in the **Technical Parkour event 2016** conducted by KCG college of



Asheek Ali and Mohamed Vahid Meeran of third year EEE students presented a paper titled **"Replacement of silicon memory by plastic"** on a technical symposium conducted by KCG College of Engg. & Technology on 17.03.2017.

Mohan Dass and Yuvraj of 3rd EEE presented a paper on the title "High Gain Single Stage Inverter For Photovoltaic AC modules " in a National level Symposium **"E-SPIRT 2K17"** on 23.03.2017 conducted by Veerasamy Chettiyar College of Engg. and Technology and won the second prize.



Yuvraj and selvaraj of third year EEE students won the third prize and cash award of Rs 300 in a technical symposium **"ELARC 2016"** conducted by MADHA Engg. College.

Mudassir Ahmed of 3rd EEE had participated and secured first prize in **"SHIPWRECK:"** event in the Technical symposium conducted by Meenakshi College of Engg. on 16.08.2016

Yuvraj of 3rd EEE student selected in the top 10 list of State level **"KALAI ILAKIYA POTTIGAL 2015"** competition conducted by "Ramalingar Narpani Mandram"

Mudassir Ahmed of 3rd EEE had participated and secured second prize in **"TIK-TALK:"** event in the Technical symposium conducted by KCG College of Engg. & Tech. on 17.03.2017



Jayavel of 3rd EEE Student selected as best student and received **"Swamy Vivekanakdar Award"** from Bharathi Yuva Kendira Trusty-Madurai

ACADEMIC ACHIEVEMENTS OF STAFF

Staff Name	Subject Name	Sem/ Dept	% of result
Mr.S.Prakash	Electrical Machines-I	IV Sem/ EEE	100
Mr.S.Prakash	Power Electronics	V Sem/ EEE	100
Mr.P.Elango	Design Of Electrical Machines	VI Sem/ EEE	100
Mr.G.Vijayanand	Flexible Ac Transmission Systems	VII Sem/ EEE	100
Mrs.Lakshmi	Solid State Drives	VI Sem/ EEE	100
Mr.Balakumar	Communication Engineering	V Sem/ EEE	100
Mr.Mohammed Abdul Kadhar	Electromagnetic computation & modelling	I Sem/ ME PED	100
Mr.Mohammed AbdulKadhar	Solid State AC drives	II Sem/ ME PED	100
Mr.G.Vijayanand	Principles of Management	VII Sem/ EEE	94.4
Mr.Mohammed Abdul Kadhar	Protection & Switch Gear	VII Sem/ EEE	94.4
Mr.P.Elango	Transmission & Distribution	V Sem/ EEE	92.3
Mr.Vijayanand	Power System Operation Control	VII Sem/ EEE	92.3
Mr.B.Karthikeyan	Power Quality	VIII Sem/ EEE	92
Mrs. S. Sujatha	Measurements & Instrumentation	III Sem/ EEE	92
Ms.S.Savitha	EEGUC	VIII Sem/ EEE	92
Mr. D. Sathyaraj	Power Plant Engineering	V Sem/ EEE	91.67
Ms.F.Ruby Viney Roy	High Voltage Engineering	VII Sem/ EEE	91
Ms.Veni	Digital Signal processing	V Sem/ EEE	92
Dr.S.Balakrishnan	Engineering Physics I	I Sem/ EEE	100
Mr.P.Sadasivam	Technical English II	II Sem/ EEE	100
Dr.S.Nanjundan	Engineering Chemistry II	II Sem/ EEE	100
Ms.Rosy Christy	Environmental Science & Engineering	II Sem/ EEE	91
Ms.Shakila	Technical English I	I Sem/ EEE	93.6
Mr. Sengath i ravan	Technical English II	II Sem/ EEE	94
Mr.Sowmiya Narayanan	Engineering Chemistry II	II Sem/ EEE	94

Ruby vincy roy of EEE
 Receiving Rs 5000 Cash
 Award for Academic
 performance Achievement



Gokula Priya and Divya merlin of EEE
 dance performance

DEPARTMENT OF EEE ACADEMIC YEAR PERFORMANCES

TOPPERS

SECOND YEAR

Rank - I



SOWMIYA.S

9.00 (GPA)

Rank - II



THANUJAA.S

8.37 (GPA)

Rank - III



ANISH KUMAR.G

8.33 (GPA)

THIRD YEAR

Rank - I



SURYA PRAKASH.K

8.33 (GPA)

Rank - II



VISHAL .V

8.03 (GPA)

Rank - III



RAJESH.P

8.25 (GPA)

Rank - III



YUVARAJA

8.25 (GPA)

FINAL YEAR

Rank - I



KRISHNA BHARATHI.M

8.71 (GPA)

Rank - II



SOWDARIYA.S

7.06 (GPA)

Rank - III



MOHAN.R

7.42 (GPA)

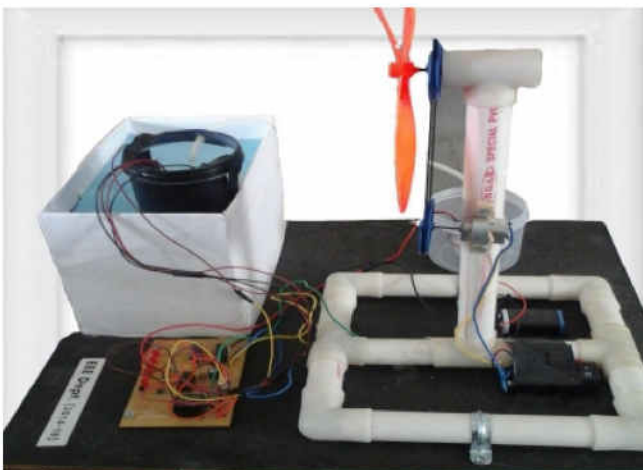
DEPARTMENT OF EEE

STUDENT PROJECTS

RAJESH, SURYA PRAKASH and VISHAL VIJAYAKUMAR team of III year EEE students won the First prize for their project "Arduino based solar powered College model" in the Inter department Innovative Project Competition 2016" conducted by EEE department of PERIIT



ASHEEK ALI and MOHAMED VAHID MEERAN of III EEE students won the Second prize for their project "Arduino based Automatic water level controller using wind energy system for home " in the Inter department Innovative Project Competition 2016" conducted by EEE department of PERIIT.



SCOPE AND JOB OPPORTUNITIES FOR FREE

Electrical Engineering is a core branch of Engineering. It is an evergreen branch. Qualified Electrical Engineers are always in demand. Since most Industries use electricity and electric machines. Engineers are required by Industries for operational, maintenance and manufacturing purposes.

Government sector jobs the prime recruiters are:

1. State wise Electricity Boards
2. Thermal Power Plants
3. Indian Armed Forces
4. PWD Department
5. Indian Railways
6. Power Stations
7. BHEL
8. NGC

Home appliances manufacturing companies:

1. LG
2. Videocon
3. Samsung India

Public sector companies recruit electrical engineers through GATE Score

1. SAIL
2. BHEL
3. GAIL
4. State Electricity Board
5. NTPC
6. BSNL
7. Power Grid Corporation of India
8. NSPCL
9. Coal India

Core companies in India for electrical students who hires through ON/off campus mode:

1. Hawells
2. Turbo
3. Kirlosker
4. Jindal steel
5. Genco
6. Jaypee group
7. Tata Steel an Power Ltd
8. Cromptan Greaves
9. Anchor
10. GMR infrastructure
11. GVK Power and Infrastructure
12. Hindustan Motors
13. Bhushan Steel
14. Durgapur Steel Plant
15. Cone Elevator
16. Jay balaji Steel
17. Rathi Tor
18. Larsen & Toubro
19. Siemens

Software companies in India for electrical students who hires through ON/off campus mode:

1. Tata Consultancy Services
2. Wipro Limited
3. Infosys Technologies Limited
4. HCL Technologies Limited
5. Satyam computer services Ltd
6. IBM
7. Capgemini
8. CIS
9. Hexaware

Sweet Memories



2010-2014 BATCH



2011-2015 BATCH



2011-2015 BATCH



2013-2017 BATCH



LARGEST POWER STATIONS



The most **powerful Hydroelectric power project** in history, China's "Three George dam, has slowed earth's rotation down by 0.06 micro seconds. The Three Gorges Dam Hydro project has a generating capacity of 22,500 MegaWatts



Alta Wind Energy Centre (AWEC) in Tehachapi, Kern County, California, is currently the largest wind farm in the world with an operational capacity of 1,020MW. The onshore wind farm is owned and operated by Terra-Gen Power.



India is now home to world's largest solar plant on a 'single location'. The plant, in Kamuthi, Tamil Nadu, comes with a capacity of 648 MW and covers an area of 10 sqm/km. Prior to this, **Topaz Solar Farm** in California was



tokyo Electric Power Co.'s (TEPCO) Kashiwazaki-Kariwa plant in Japan is the world's largest nuclear power plant, with a net capacity of 7,965MW. Kashiwazaki-Kariwa has seven boiling water reactors (BWR) with a gross installed capacity of 8,212MW

GREAT INVENTORS IN ELECTRICAL HISTORY

1.(1802 -1851)
THOMAS DAVENPORT
Inventor of the first
powerful Electric motor



12. (1778 -1829)
SIR HUMPHRY DAVY
Inventor of the incandescent
and arc lamp



3.(1706-1757)
BEN FRANKLIN
Discovered
+/- in Electricity. Charge
concept and invented
the lightning rod



4.(1791 - 1867)
MICHAEL FARADAY
Pioneer in Electromagnetism
and Electrochemistry



5.(1847-1931)
THOMAS ALVA EDISON
Over 1000 patents from
consumer goods to
industrial needs



6.(1856 -1943)
NIKOLA TESLA
Developed an AC current
system of generators ,
motors ,and transmission
lines -the same system we
use today



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PERI JOB FAIR 2017



Passion
Potential  **AMPLIFIED**

