

EEE NEWSLETTER



HOD'S DESK

I take this opportunity to congratulate all the faculty and students of the department who have taken immense effort in organizing and conducting various events. I am proud of my students who won first prize in Hackathon19 Event. I also encourage you all to do more in the fore coming months of this academic year. I congratulate the faculty who have published papers in journals and applied for funding proposals.

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WINTER TIPS

WONDER WINTER FOODS TO BEAT THE CHILL



AMLA: High amount of vitamin C and antioxidants that prevent cell damage. Good for digestion and helps the body absorb micro nutrients.

SEEDS (sunflower, flax and sesame): Excellent sources of vitamin B, vitamin E, protein, folate, which boost immunity and prevent cell damage.



GREEN TEA: Loaded with antioxidants, has antiviral and antibacterial properties. Chamomile tea especially is known to fight cough and cold and also de-stress.



GINGER: Healing properties, aids digestion, and anti-inflammatory. Relieves joint pain, cold and cough.

CARROT: Improves skin health, fights seasonal flu and other minor infections.



MUSHROOMS: Source of fiber, potassium, riboflavin, thiamine, folic acid, vitamin B6 and zinc. Also boost immunity.



HONEY: Acts as antibacterial, soothes seasonal flu symptoms, has a warming effect.



GARLIC: Has antiviral properties. It's best to chew a clove raw.



GUAVA: High in vitamin C, fibre, and minerals like calcium, iron and potassium. It is also low on calories.



CO CURRICULAR ACTIVITIES

SPORTS ACHIEVERS



Mr. Naveen R of Final year EEE 2016-20 won GOLD Medal in the All India National Boxing Championship 2019 on 19th to 21st July 2019 held at HARYANA

Mr. Naveen R of Final year EEE 2016-20 was the winner of "Indo-Nepal Goodwill Championship"-2019 held at Kathmandu - NEPAL sponsored by HICET.



P.Alagesan Final year EEE 2016-20 and Team won FIRST PRIZE in open kabaddi match at Sivagangai district, Karamadai on 21st July 2019 representing Hindusthan Kabaddi team. The Team of players were congratulated by our beloved Advisor Sir , Principal Sir , Dean Sir and Physical Director Sir.

HANDS ON TRAINING / WORKSHOP / SEMINAR



Hands on training of Assembling and Dismantling of AC and DC machines core and winding design was conducted on 2nd and 3rd of August 2019 in the Department in association with E-Trainers.



Two days National level Workshop on "PCB Designing" was organised by IE(I) student chapter HCET-EEE and SAI Incubation Centre on 12th and 13th of July 2019 in the department



One day National level seminar on "Career opportunities in Energy Management and Energy Auditing" was conducted by department on 3rd August 2019.



INDUSTRIAL VISITS

Students of IIEEEA and IIEEEB along with faculty went on an Industrial Visit to Aavin Company, Coimbatore on 31st Aug 2019

Students of IIEEEA along with faculty went on an Industrial Visit to Hindusthan Heavy Electricals Company, Coimbatore on 17th Aug 2019



STUDENT ACHIEVEMENTS

PRIZE WINNERS

Gokul Raj D IIEEEEA participated in technical symposium held on 4th oct 2019 at ksr college of engg and got first prize in SCAVENGER HUNT, LISTEN TO THE GUIDE, CONNECTION and SPEECH NINJA and got second prize in TECHNICAL QUIZ and presented a paper too.

P.Girishenbagaraj and J Krishnavel IIEEEEA participated in technical symposium in HICAS and got Third prize in QUIZ on 5th sep2019.

Gokul Raj D and N Ajith IIEEEEA participated in technical symposium held on 17th Aug 2019 at Syed ammal Engg college an won Second Prize in "Paper Presentation".

K kirubakaran and P.Girishenbagaraj of IIEEEEA participated in Technical Symposium held on 17th Aug 2019 at Syed ammal engg college an won First Prize in "Technical connection"

Gokul Raj D IIEEEEA participated in technical symposium held on 17th Aug 2019 at Syed ammal engg college an won First Prize in "Circuit Debugging".

Gokul Raj D IIEEEEA has received the **CERTIFICATE OF MERIT** for the distinctive performance in Autonomous Examinations for the academic year 2018-2019.

WOKSHOP / SYMPOSIUM / SEMINAR

Gokul Raj D and N Ajith of IIEEEEA participated in quiz competition of technical symposium in HICAS on 5th sep2019.

N Ajith and D. Gokulraj IIEEEEA participated in circuit debugging competition of technical symposium in HICAS on 5th sep2019.

S.Mugilan, R R Raja suriya , K Kirubakaran , M Kishore Kumar and K Mathew of IIEEEEA participated in "Design aspect of IoT home automation using Raspberry organized by TOP ENGINEERS at IIT Madras Research Park Chennai on 20th July 2019.

Nilesh B , M Kishore Kumar, K Kirubakaran and J Krishnavel IIEEEEA participated in National Level Seminar on "POWER OF BIG DATA IN CYBER SECURITY: CONTEMPORARY RESEARCH METHODS at HITECH on 12th and 13th July 2019.

Gokul Raj D and N Ajith IIEEEEA participated in Technical Symposium in the event " Technical Connection held on 17th Aug 2019 at Syed ammal Engg College.

N Ajith, Gokul Raj D and M Karthick of IIEEEEA participated in Workshop on Industrial Automation with PLC on 18th Aug 2019 conducted by Profenaa Industrial Training Centre, Coimbatore.

Gokul Raj D, P.Girishenbagaraj, J Krishnavel and N Ajith participated in MAKEATHON Contest during the National Summit at Sri Eshwar Industry Connect 2019 on 26th July 2019.

Gokul Raj D and N Ajith undergone One Day Worskshop on "Effective way to implement security system" held at CADD technologies school of design pvt ltd Coimbatore on 29th June 2019.

K.Abishek of IIEEEEA participated in CSIR sponsored One Day National Level Technical Seminar on " Integrated smart energy management system for smart meters, sensors and for business solutions on 11th July 2019 at HITECH, Coimbatore.

N Ajith, Gokul Raj D, Madhusri M and Nivya M of IIEEEEA participated in CSIR sponsored One Day National Level Technical Seminar on " Impact of Power electronic converters in distributed generation and micro grid" on 5th July 2019 at HITECH, Coimbatore.

INTERNSHIP TRAINING

C.Praveen Kumar of IIIIEEEB underwent internship training at Mettur Thermal Power Plant.

Aadityan K, Akhil D, Akhil S Kumar, Ananthu Ramesh.S Aravind R, Ashwin Andrew Goldwyn F and Bihas S of IIIIEEEA underwent a Internship training in Keltron Component Complex Ltd, Kerala

MANY OF LIFE'S FAILURES ARE PEOPLE WHO DID NOT REALIZE HOW CLOSE THEY WERE TO SUCCESS WHEN THEY GAVE UP.

Thomas Edison



ABOUT THE TECHNOLOGY

Solar system is a photovoltaic system in which electricity generating panels are installed on the roof of any residential, commercial, institutional or industrial building.

HOW MUCH AREA IS REQUIRED?

A rooftop solar plant generally requires around 100 square feet shadow free area per kilowatt.

IS FINANCE OPTION AVAILABLE?

Bank do provide loan for solar plant installations. The loan will cover up to 95% of the project cost at a fixed rate of interest. With 5 year tenure.

IS THERE ANY GOVERNMENT SUBSIDY?

Subsidy of 30% is being given by the central government. Those interested to install solar plants can avail the subsidy from the ministry of new and renewable energy (MNRE) through CREST. The subsidy is released to the applicant after commissioning of the project and receipt from the MNRE based on the rates of different categories.

THE COST OF INSTALLATION

| Category | Approx. Cost (INR) |
|----------|--------------------|
| 1-5 | 160,000 |
| 5-20 | 350,000 |
| 20-50 | 450,000 |
| 50-100 | 650,000 |
| 100-300 | 150,000 |

HOW MUCH ENERGY IS GENERATED?

1 KW system can generate upto 4.5 kWh per day depending upon the location and maintenance of the plant.

WHAT IS THE LIFE OF THE SYSTEM?

The life span of a solar panel is around 40 years but the manufacturers give a warranty for a period of 25 years.

JOURNAL PUBLICATIONS

Dr.N.P.Ananthamoorthy :Robust retinal blood vessel segmentation using convolutional neural network and support vector machine -Journal of Ambient Intelligence and Humanized Computing –2019

Dr.N.P.Ananthamoorthy -Analysis of hybrid statistical textural and intensity features to discriminate retinal abnormalities through classifiers -Journal of Engineering in Medicine –2019

Mr.M.P.Viswanathan - An On-Grid Solar Power Harvesting System with a DC-DC converter to minimize the variety Irradiance voltage for Multilevel Inverter -Tierarztliche Praxis –2019

FACULTY DEVELOPMENT PROGRAM

Dr.K.Sekar ,Dr.K.Mathan ,Dr.T.Vandarkuzhali ,Mrs.B.Nandhini , Mrs.T.Manjula , Mr.Radhakrishnan P , Mr.G.Muthuram , Mr.A.Khaja Najumudeen Dr.K.Rajesh Kanna and Mr. S.Joshua Daniel attended a AICTE Sponsored Two Week FDP on “ Deep Learning in Bio-Medical Applications for IoT” conducted by Department of ECE - HICET from November 4th 2019 to November 17th 2019



NPTEL Online Certification Course

Dr.K.Sekar completed a 8 week Nptel Online Certification course on the title “DC Micro Grid” from Jul-Sep 2019
Mr. S.Joshua Daniel completed a 8 week Nptel Online Certification course on “ Introduction to Research” from February - April 2019

Mr. S.Joshua Daniel completed a 4 week Nptel Online Certification course on the title “ Body Language—Key to Professional Success” from July - September 2019 and secured Elite + Silver score

Mr. P.S.Diwakar completed a 8 week Nptel Online Certification course on the title “ Fundamentals of Electric Drives” from July - September 2019

PROGRAM EDUCATIONAL OBJECTIVES (PEO's)**PEO 1:**

- Graduates shall have a good foundation in the fundamental and application aspects of electrical, electronics and allied engineering, mathematics and science.

PEO 2:

- Graduates shall equip with latest technological developments in the field of electrical and electronics engineering for successful employment and motivate themselves to pursue higher studies and do research.

PEO 3:

- Graduates shall have lifelong learning skills, professional ethics and good communication capabilities along with entrepreneur skills and leadership, so that they can succeed in their life.

PROGRAM SPECIFIC OUTCOMES (PSO's)**PSO1: Professional skills:**

- To analyze, design and implement solutions for simple and complex engineering problems that are economically feasible, eco-friendly and socially acceptable.

PSO2: Research skills:

- To apply research and project management skills in electrical and electronics domain concerned with non-conventional energy system by employing recent technologies.



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**DEPARTMENT VISION**

To become a Centre of Excellence in Electrical and Electronics Engineering, in every facet of Engineering Education

DEPARTMENT MISSION

Provide a solid foundation in basic science, mathematics and engineering fundamentals enhancing the student's capability to identify, formulate, analyze and develop solutions for Engineering problems.

Create an ambiance for the students to develop and flourish their technical skills, design knowledge and innovative ideas to address the environmental issues and sustainable development of the society.

Inculcate moral values and leadership qualities to meet the challenges of life with courage and confidence