



# HINDUSTHAN

## COLLEGE OF ENGINEERING AND TECHNOLOGY

Valley Campus, Pollachi Highway, Coimbatore - 641 032, Tamil Nadu, INDIA.

**Department of Electrical and Electronics Engineering**

### 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 and participating in various events. 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, patented ,events, hardware project and applied for funding proposals.

### EDITOR'S

#### Chief Editor

Dr. N.P. ANANTHAMOORTHY  
HOD – EEE

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#### Student Editors

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LIJO JOHN J ,I- EEE  
SAJIN S J , I – EEE

S.NO	TITLE OF THE PROGRAMME	PAGE NO
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### Ph.D., Awarded Congratulations



Name ; **Mrs., Mugrugeswari T**

Viva Held on : 15.02.2021

#### Title

ENHANCED DISTRIBUTED  
ROUTING PROTOCOLS FOR  
HYBRID WIRELESS NETWORKS

**Dr.T.VANDARKUZHALI**, Electrical and Electronics Engineering,  
ASSOCIATE PROFESSOR, **Entrepreneurship- Pathway to success**  
on 20.1.2021 **No. of Participants : 100**



**Mr. Muthuram G & Mr. Viswanathan M P, EEE,**  
ASSOCIATE PROFESSOR,  
**RECENT DEVELOPMENTS IN POWER SYSTEM  
PROTECTION SCHEMES** on 23.04.2021

**Dr.Sekar K & Dr.Rajeshkanna R** , EEE,  
ASSOCIATE PROFESSOR, **Guest Lecture**  
titled **"FACTS devices & Its Applications"**,  
On 20.02.2021



**No. of Participants : 80**

**Dr.T.VANDARKUZHALI**, Electrical and Electronics  
Engineering, ASSOCIATE PROFESSOR,  
**ENTREPRENEURSHIP - START UP BUSSINESS  
PITCH COMPETITION** ON 11-02-2021

**Dr.Sekar K & Mr.G.Muthuram** , EEE, ASSOCIATE  
PROFESSOR, **"Energy Conservation and Energy Efficiency"** on  
**29.01.2021**



**No. of Participants : 60**

**Mr. Radhakrishnan P & Dr. Mathan K**  
EEE, ASSOCIATE PROFESSOR, **RECENT TRENDS IN  
INDUSTRIAL IOT & IT'S APPLICATIONS** ON 06-03-2021

**Dr.Sekar K & Mr.G.Muthuram** , EEE, ASSOCIATE PROFESSOR,  
**ENERGY CONSERVATION & ENERGY EFFICIENCY** , on 29-01-2021 **No.  
of Participants : 60**

**Mr. Radhakrishnan P & Dr. Mathan K**, EEE, ASSOCIATE  
PROFESSOR, **LET'S TALK, STUDY ABROAD** , ON 18-03-  
2021

**Dr.Sekar K & Dr.Rajeshkanna R** , EEE, ASSOCIATE PROFESSOR,

**FACTS DEVICES & IT'S APPLICATIONS** on 20-02-2021 **No. of Participants**

**Mr.G.Muthuram**, EEE, ASSOCIATE PROFESSOR,  
**EMERGING TRENDS IN POWER SYSTEM  
PROTECTION :CHALLENGES & SOLUTIONS -  
BEGINNERS APPROACH** On 19.02.2021

### DETAILS OF RESEARCH PAPERS PUBLISHED

**Dr.T. vandarkuzhali**, Subversive Power Cable Fault Credential via GSM and GPS Module for Green Energy, Vol.11, Issue 2, pp. 1394-1411, Journal of Green Engineering, 2021, Scopus Indexed, 0.45

**Mr.N.Maheshkumar**, Off Grid Power Generation Using Sepic Converter with P&O for PV System, Vol.25, Issue 5, pp. 3907-3913, Annals of the Romanian Society of Cell Biology, 2021, Scopus Indexed, 0.90

### PATENT PUBLISHED

- ✓ **Dr.K.MATHAN**, IOT AND CLOUD BASED LOW-COST SMART IRRIGATION SYSTEM, 202141006738 A, 18-02-2021-26-02-2021.
- ✓ **Dr.K.MATHAN**, A FAULT TOLERANCE SOLUTION FOR LARGE SCALE WIRELESS SENSOR NETWORKS IN THE CONTEXT OF A PRECISION AGRICULTURE APPLICATION, 202141011050, 16-03-2021-26-03-2021.
- ✓ **Dr.K.MATHAN**, IMPROVEMENTS TO THE CLONALG ALGORITHM AND THEIR COMPARISONS ON THE DIAGNOSIS OF BREAST CANCER, 202141015545, 01-04-2021-23-04-2021.
- ✓ **MAHESHKUMAR N**, A NOVEL DISINFECTING MACHINE FOR A PORTABLE OBJECT, 202111017540 A, 15-04-2021-23-04-2021.
- ✓ **T VANDARKUZHALI**, AI BASED E-VEHICLE BATTERY POWERMANAGEMENT SYSTEM, 202111009492, 07-03-2021-07-03-2021.
- ✓ **T VANDARKUZHALI**, HYBRID DRONE FOR SMART LODISTICS USING IOT, 202111009854, 09-03-2021-12-03-2021.
- ✓ **K.SEKAR**, A New Depiction of water path for power generation from waste water as well as oil. 202141016343, 07.04.2021-16.04.2021.

### PATENT PUBLISHED

- ✓ Balachandra Pattanaik, **K Sekar**, S.Peniel Pauldoss and S Gobinath Renewable Energy with IOT and Biomedical Applications Topic: "Control Strategy For DSTATCOM Using Reinforcement Learning Algorithm in MG for Power Quality Improvement", Dipti Press OPC Pvt. Ltd., IN NO : 978-81-952585-4-3, Page No. 56-60, May 2021

### Guest Lecture [2020-2021 even semester]

**Dr.Sekar K**

DST Sponsored Six Weeks Online Programme [03 rd Feb.2021 To 16th Feb.2021] Event Title: Entrepreneurship Development Training for Repair and Maintenance of Solar Based Power Supply, Inverter and UPS Among Rural People. Under the Scheme of TEDP- (Innovation & Entrepreneurship Date: 06.02.2021 Session I (10 to 10.50am), Topic: How to find out pre-feasibility of a Project Session II (11 to 11.50am), Topic: Preliminary Project I (PPR) 04.03.2021 DST Sponsored Six Weeks Online Programme [03 rd Feb.2021 To 16th Feb.2021] Entrepreneurship Development Training for Repair and Maintenance of Solar Based Power Supply, Inverter and UPS Among Rural People. Under the Scheme of TEDP- (Innovation & Entrepreneurship) 04.03.2021 Session I (10 to 10.50am), Topic: Solar Energy Storage System Session II (11 to 11.50am), Topic: Solar Based Power Supply

**Prof.G.Muthuram** 06.03.2021 Session 3(1-1.50PM) Session 4: (2-2.50pm) Topic: Solar Based Power Supply

**Prof.M.P.Viswanathan** 06.03.2021 Session 3 (1-1.50PM) Session 4: (2-2.50pm) Topic: Virtual Tour to a Factory and Experience Sharing with Innovative Entrepreneurs

**Dr.Rajeshkhanna** 06.03.2021 Session 3(1-1.50PM) Session 4: (2-2.50pm) Topic: Solar Based Power Supply

## Hardware Project



**TITLE**  
Intelligent Road Light for Controlling Energy Utilization



**TITLE**  
Smart trash receptacle monitoring and alerting management system

### TITLE

**Micro controller based automatic air pollution monitoring and controlling system using IOT.**





**Date : 23.04.2021** This MOU is entered on 23.04.2021 this day, between Department of Electrical and Electronics Engineering, **Hindusthan College of Engineering and Technology (HICET), Coimbatore**, having its registered office at Valley Campus, Pollachi Highway, Coimbatore-641032, Tamil Nadu.

**Mr.S K SHREENIVAS FOUNDER & CEO KST WIND ENGINEERING INDIA PVT LTD., (KST) (A REGISTERED WIND ENGINEERING COMPANY) 2/231-A, Palladam, Udumalai Main, Kethanur, Tiruppur, Tamil Nadu - 641671, India.**



**Mr. CHRISTY SAHAYAM ,EXECUTIVE DIRECTOR** WORLD INNOVATION TECHNOLOGIES (WIT)

No : 584/1, Vaduku Thottam, Malumachampatti (Post), Coimbatore-641050 Tamil Nadu, India.

Email: [info@witindia.com](mailto:info@witindia.com) / [info.witindia@gmail.com](mailto:info.witindia@gmail.com) [www.worldinnovationtechnologies.com](http://www.worldinnovationtechnologies.com).



**Mr.R.DHANABAL** Properitor Sri Vaari Automation

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Coimbatore 641041, Tamil Nadu

Email: [vaariiiauto@gmail.com](mailto:vaariiiauto@gmail.com),

Web: [www.vaarii.co.in](http://www.vaarii.co.in),



**MSM Energy Enterprises**

Mr.M. S. Muthusamy (Managing Director)

No. 56, Sri Sakthi Ram Illam Raju Naidu Layout, No. 1, 100 Feet Road, Gandhipuram, Coimbatore-641012, Tamil Nadu, India

### International Conference: 2021

- Dr. SEKAR K**, presented titled on “ Solar Powered Smart Street Lighting System Using wifi Communication In International Virtual Conference on Emerging Trends In Engineering, Management And Applications-ICETEMA-2021, PET Engineering College, Vallioor, Tiunelveli, Tamil Nadu-627117 on **12 th March 2021**
- Dr. SEKAR K**, Presented titled “Design and Implementation of a Deep Covolutional Neural Networks Hardware Accelerator. In International Conference on Emerging Trends in Science, Engineering & Management-ICETSEM-2021 , Organized by the International Journal of MC Square Scientific Research, Chennai, Tamil Nadu from **January 21-23, 2021**

### International Award:

**Name: Dr. Sekar K**, Associate Professor, Department of Electrical and Electronics Engineering, Hindusthan College of Engineering and Technology, Coimbatore.

**Award Title: Best Emerging Technology Performer -Best contribution in Academic as well Research & Development Activity**

**Venue:** International Conference on Emerging Trends in Science, Engineering & Management (ICETSEM-2021)

**Organized by:** International Journal of MC Square Scientific Research, Chennai, from January 21-23, 2021

### BOOK Editor

Dr.T.R.Ganesh Babu, **Dr.K.Sekar**  
T.Mangayarkarasi, “Renewable Energy with IOT and Biomedical Applications, , Dipti Press OPC Pvt. Ltd., ISBN NO : 978-81-952585-4-3, May 2021



### Academic Toppers -2020-2021

S.No	Name of the Student	Class & Section	Percentage	Photo
1	MANJULA S	IV EEE A	9.55	
2	SADAM HUSSAIN N	IV EEE B	9.22	
3	GOKUL RAJ D	III EEE A	9.32	
4	BABU K	III EEE B	9.576	
5	DAMARAJU MANIPRAKASH	II EEE	9.44	
6	THOUFEEQ ROSHAN J	I EEE	9.73	
7	NANDHINI P AND RAGAVI M	I ME	9.37	

### Pongal Celebration



### SWAYAM ONLINE COURSE CERTIFICATION





## Vision of the Department

To manifest itself as a valuable global resource for industry and society with strong foundation. Abetting the students with innovative ethical and creative talents of endeavoring young professionals in Electrical and Electronics Engineering.

## Mission of the Department

**DM1:** Educate the students to acquire knowledge in recent advancement of Electrical and Electronics Engineering and prepare the students for professional career and higher studies.

**DM2:** Inculcate the students to develop innovation for the societal needs through research oriented teaching and creative skill enhancement training.

**DM3:** Enunciate the students with better skills to meet the challenges of the technical world and intensify the skills towards the practical approach.

## PROGRAM EDUCATIONAL OBJECTIVES-PEOs

**PEO 1:** Graduate will be able to execute the principles of basic science, mathematics and engineering fundamentals necessary to formulate, solve and analyze engineering problems.

**PEO 2:** Graduate will be able to accrete the knowledge for pursuing advanced degrees in Engineering, Science, Management, Research and Development.

**PEO 3:** Graduate will be able to effectuate professionalism, leadership qualities, self and continuous learning and concern for environment to meet the societal needs.

## PROGRAM SPECIFIC OUTCOMES-PSOs

**PSO1.** Graduates will acquire the knowledge of design, performance & testing of static & dynamic Electrical Machines, Electrical Drives, Power Electronics applicable in core and related fields.

**PSO2.** Graduates will attain knowledge and acquire skills by applying modern software tools for design, simulation and analysis of Electrical Systems to successfully adapt in multi-disciplinary environments.



"Our scientific power has outrun our spiritual power. We have guided missiles and misguided men."  
—Martin Luther King Jr.



The important thing in science is not so much to obtain new facts as to discover new ways of thinking about them.  
— William Lawrence Bragg —

ALOUDES

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