



# GOVERNMENT COLLEGE OF ENGINEERING BARGUR – 635104

(AN AUTONOMOUS INSTITUTION, AFFILIATED TO ANNA UNIVERSITY – CHENNAI)

## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

(NBA ACCREDITED)

NEWS LETTER(AUG 2018 -APR 2019)



### VISION:

To be a center of new ideas and innovations by providing quality education in the field of electrical and electronics engineering.

### MISSION:

To provide an environment in which new ideas and research thrive and from which the leaders and innovators of tomorrow emerge.



# **PROGRAMME EDUCATIONAL**

## **OBJECTIVES:**

### **PEO 1.**

Apply a broad, fundamental based knowledge and up-to-date skills required in performing analysis and synthesis in Electrical and Electronics Engineering.

### **PEO 2.**

Design works pertaining to Electrical and Electronics Engineering using basics of circuits, incorporating the use of design standards, realistic constraints and consideration of the economic, environmental and social impact of the design.

### **PEO 3.**

Use modern computer software tools to analyse and solve Electrical and Electronics Engineering problems and explain and defend their solutions and communicate effectively using graphic, verbal and written techniques to all audiences, and pursue lifelong learning and research.

# **PROGRAM OUTCOMES:**

1. An ability to apply knowledge of mathematics, science and engineering,
2. An ability to design and conduct experiments, as well as analyse and interpret data,
3. An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
4. An ability to function on multidisciplinary teams, 5. An ability to identify, formulate, and solve engineering problems,
6. An understanding of professional and ethical responsibility,
7. An ability to communicate effectively,
8. The broad education necessary to understand the impact of engineering solution in a global, economic, environmental and societal context,
9. A recognition of the need for, and an ability to engage in life-long learning,
10. A knowledge of contemporary issues,
11. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

# SMART GRID

- Smart grid technology is enabling the effective management and distribution of renewable energy sources such as solar, wind, and hydrogen.
- By leveraging the Internet of Things (IOT) to collect data on the smart grid, utilities are able to quickly detect and resolve service issues through continuous self-assessments.
- Because utilities no longer have to depend on customers to report outages, this self-healing capability is a vital component of the smart grid.
- The relationship between the smart grid and renewable energy revolves around gathering data. For example, wind farms use mechanical gears that require each link to support multiple sensors.
- Each sensor is able to note current climate and environmental conditions. This information is then quickly sent through the grid to alert the utility of any issues, which improves both the quality of service and safety.
- Semiconductor materials, such as silicon, are supporting the creation of green energy with smart grid technology. Due to their ability to hold millions of minuscule transistors, these materials have enabled IOT

# **EDITORIAL BOARD**

## **PATRON**

Dr.W. Nishath Kanvel, M.E., Ph.D.,

## **CHIEF EDITOR**

Prof . K.Mohan, M.E.,

Prof . V.Arivumani, M.E.,

## **ASSOCIATE EDITOR**

Mr.MRP.Rajkumar.,IV Year EEE

Mr.S.Senthilkumar., IV Year EEE

# ACHIEVEMENTS

THE FOLLOWING STUDENTS PARTICIPATED IN DIFFERENT COMPETITION AND  
CAME OUT WITH FLYING COLOURS

## 3<sup>rd</sup> YEAR:

U.HARIHARAN  
D.BENJAMIN  
M. SARAVANAKUMAR  
R.SHABARIYAPPAN

J.C.SHARONSHING  
N.TAMJEETH  
P. VIJAYALAKSHMI  
G.RAGHUL

## 2<sup>nd</sup> YEAR:

P . KARTHIKEYAN  
V . SAMPATH  
S . VENKATESAN  
G . KARTHIK

V . MANOJ KUMAR  
N . INZAMAM  
R . SARAVANAN  
S . SATHISH

## 1<sup>ST</sup> YEAR:

R.HAMSHINI  
D.PRABHAVATHI  
S.BRINDHA  
M.NATHIYA

LEENA SUSAN P ANTONY  
K.S.JANANI  
A.RATHIPRIYA  
G.VARUN

**The organized events in our department are listed below:**

**SOCIETY OF ELECTRICAL AND ELECTRONICS ENGINEERING  
THE NATIONAL LEVEL TECHNICAL SYMPOSIUM  
FACULTY DEVELOPMENT PROGRAMME  
WORKSHOP**



**Dr I.Thangaraju** has acted as a Resource Person for SERB sponsored Two days National Level Seminar on “INDUSTRY 4.0 using IIOT” at Mahendra Institute of Technology Namakkal dated 10<sup>th</sup> July 2018.

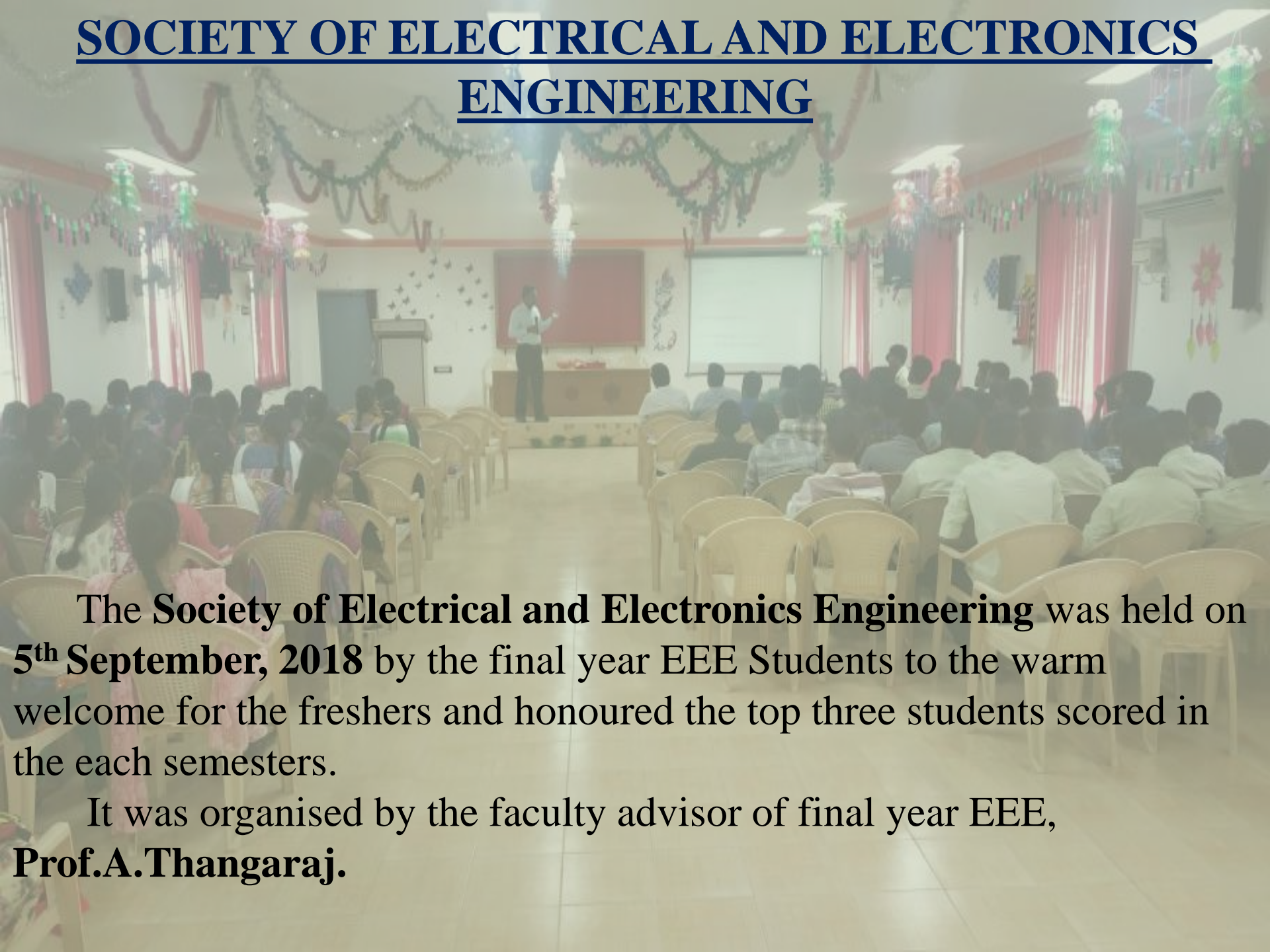
**Prof K.MOHAN** attended the one week NPTEL-AICTE Faculty Training Programme on “**Introduction to Smart Grid**” completed with Elite top 5% from Aug to Sep 2018.

**Prof K.MOHAN** also completed the half one week NPTEL-AICTE FDP on “**Outcome Based Pedagogic Principles for Effective Teaching**” from Aug to Sep 2018.

**Prof K.MOHAN** also completed FDP on “**Educational Leadership**” conducted by NPTEL-AICTE completed by from Aug to Sep 2018.

**P.Karthikeyan & V.Sampath** of 2<sup>nd</sup> year EEE presented a paper on “Space Based Solar Power” at Alagappa Chettiyar Government College of Engineering and Technology, Karaikudi dated Sep 12<sup>th</sup> 2018.

# SOCIETY OF ELECTRICAL AND ELECTRONICS ENGINEERING



The **Society of Electrical and Electronics Engineering** was held on **5<sup>th</sup> September, 2018** by the final year EEE Students to the warm welcome for the freshers and honoured the top three students scored in the each semesters.

It was organised by the faculty advisor of final year EEE,  
**Prof.A.Thangaraj.**



**P.Karthikeyan & V.Manoj Kumar** of 2<sup>nd</sup> Year EEE secured a second place in paper presentation on “**SPACE BASED SOLAR POWER SYSTEM**” at Er.Perumal Manimekalai College of Engineering, Hosur dated 17<sup>th</sup> Sep 2018.

**S.Sathish, V.Sampath, N.Inzamam, G.Karthik & S.Venkatesan** of 2<sup>nd</sup> year EEE participated in a workshop and some technical events at Er.Perumal Manimekalai College of Engineering, Hosur dated 17<sup>th</sup> Sep 2018

# THE NATIONAL LEVEL TECHNICAL SYMPOSIUM

The National Level Technical Symposium named 'ELECTRYONZ 7.0' was organised by final year EEE students under the control of Prof.A.Thangaraj which was held on 27<sup>th</sup> and 28<sup>th</sup> September, 2018.





The prize distribution on “**ELECTROYNZ 7.0**”  
was presided by our beloved Principal  
**Dr.M.CHANDRASEKARAN** dated  
28<sup>th</sup> Sep 2019

**B.Priyanka Devi** of 2<sup>nd</sup> year EEE attended a workshop on “**Android App Development**” at Code Bind Technologies, Trichy dated Dec 12<sup>th</sup> 2018.

**B.Priyanka Devi** of 2<sup>nd</sup> year EEE attended a Inplant Training at **Code Bind Technologies** Trichy from 9 to 13<sup>th</sup> Dec 2018.

**S.Vedhachalam** of 2<sup>nd</sup> year EEE attended an Inplant Training at **Bharat Sanchar Nigam Ltd**, Vellore from 10 to 14<sup>th</sup> Dec 2018.

**Prof V.Arivumani** presented a paper in National Conference on “**Emerging Trends in Advanced Computing and Communication**” dated Jan 10<sup>th</sup> – 19<sup>th</sup> 2019.

TEQIP III sponsored a Twinning Programme on “**Electrical Laboratory Experiments for students of BBEC Kokrajhar, Assam**” at EEE Department which was organised by **Prof V.Arivumani** from 25<sup>th</sup> Jan to 5<sup>th</sup> Feb 2019.

**Prof K.Mohan** attended a half one week NPTEL-AICTE FDP on “**Effective Engineering Teaching in Practice**” completed with Elite Silver from Jan to Feb 2019.



The 70<sup>th</sup> republic day was celebrated on 26<sup>th</sup> January 2019 in front of our college administration building and students were participated in march past and elocution competition.

One week NPTEL-AICTE FDP on “**Advance Power Electronics and Control**” was completed by **Prof K.Mohan** from Jan to Mar 2019.

**Prof K.Mohan** attended a one week NPTEL-AICTE FDP on “**Non-Conventional Energy Sources**” completed with Elite Silver from Jan to Apr 2019.

One and Half week NPTEL-AICTE FDP on “**Introduction to Internet of Things**” was completed by **Prof K.Mohan** with Elite Silver from Jan to Apr 2019.

**Prof K.Mohan** completed a half week NPTEL-AICTE FDP on “**Electric Vehicle Part-1**” from Feb to Mar 2019.

# STUDENTS ACHIEVEMENTS



**Final Year EEE Students** Won the first prize in paper presentation titled **Solar Power Dc With Microcontroller Based Temperature Monitoring System** on feb 14<sup>th</sup> 2019 at PSG Institute of technology, Coimbatore.



One week NPTEL-AICTE FDP on “**Enhancing Soft Skills and Personality**” was completed by **Prof K.Mohan** with Elite Gold top 5% from Feb to Apr 2019.

**S.Vedhachalam** of 2<sup>nd</sup> year EEE secured a first place in paper presentation on “**Space Based Solar Power System**” at GCE-SALEM dated 11<sup>th</sup> Mar 2019



T.Sumithra attended of 2<sup>nd</sup> year EEE “**HOME AUTOMATION**” on 11<sup>th</sup> Feb,2019 in Coimbatore institute of technology, Covai.

B.Priyanka devi, T.Sumithra, D.Selvendhan, G.K.Arun and M.Abdul Rahman of 2<sup>nd</sup> year EEE participated in “**PAPER CONFERRAL**” on 11<sup>th</sup> Mar,2019 in Government college of Engineering, Salem.

U.Ishwarya, S.Sathish and R.Saravanan of 2<sup>nd</sup> year EEE attended a **workshop “SMART GRID USING IOT”** on 12<sup>th</sup> Mar,2019 in Government college of Engineering, Salem.

B.Priyanka devi, M.Abdul Rahman, R.Vishnupriya, T.Sumithra, D.Selvendhan and G.K.Arun of 2<sup>nd</sup> year EEE participated in “**INDUSTRY 4.0**” on 12<sup>th</sup> Mar,2019 in Government college of Engineering, Salem.

**Prof V.Arivumani** presented a paper in 5<sup>th</sup> National Conference on “**Recent Innovations in Engineering, Technology, Management and Applications**” at Priyadarshini Engineering College, Vaniyambadi dated 15-16 Mar 2019.

TEQIP III sponsored three days Student training programme on “**Embedded Controllers for Electrical Engineers**” was conducted by **Dr I.Thangaraju** on 20<sup>th</sup> to 22<sup>th</sup> March 2019 at GCE Bargur.

G.Salammal and N.Inzamam of 2<sup>nd</sup> year EEE participated in **workshop** on 22<sup>nd</sup> and 23<sup>rd</sup> Mar,2019 in Government college of Engineering, Bargur.

TEQIP III sponsored two days Student training programme on “**Modern Power Converters for DC drives**” was conducted by **Dr I.Thangaraju** on 22<sup>th</sup> & 23<sup>rd</sup> April 2019 at GCE Bargur.

S.Janaranjani, K.Hemabharathi, R.Vishnu priya, A.Arthy and G.H.Harishma of 2<sup>nd</sup> year EEE attended **Inplant training** on 23<sup>rd</sup> to 25<sup>th</sup> Apr,2019 in TVS Motor company, Hosur.

TEQIP III sponsored two days Student workshop on “**Effective Communications in English**” was conducted by **Dr I.Thangaraju** on 27<sup>th</sup> & 28<sup>th</sup> April 2019 at GCE Bargur.



**THERE IS NO  
ENGINEERING  
WITHOUT  
“EEE”**