



KINGS
COLLEGE OF ENGINEERING
(NAAC Accredited Institution)
(Approved by AICTE, New Delhi, Affiliated to
Anna University, Chennai)



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
One Day Workshop on
“Recent Trends in Electrical Engineering” on 15.02.2019

REPORT

The department of Electrical and Electronics Engineering and IEEE Student branch (IEEE STB 16621) has jointly organized a one day seminar on “Recent Trends in Electrical Engineering” on 15.02.2019. The objective of this workshop is to impart fundamental knowledge of Electrical Engineering, Design of Renewable Energy Systems using soft computing tools, Winding techniques, Industrial and domestic wiring and Advanced techniques in Power Electronics to the participants of polytechnic students.

Resource persons:

Session 1- Introduction about Electrical Engineering and Industrial & domestic wiring by Dr.S.Sivakumar, Vice Principal and Head/T& P, KCE

Session 2: Design of Renewable Energy sources using Soft computing tools by Mrs.A.Prabha AP / EEE, KCE.

Session 3: Practical session

Mr.J.Arokiaraj AP/EEE

Mr.R.Sundaramoorthi AP/EEE

Mrs.N.Rajeswari AP/EEE

Mr. S.R.Karthikeyan AP/EEE

Mr. C.John Selvaraj AP/EEE

Kings College of Engineering, Punalkulam.

Convenor:

Dr.A.Albert Martin Ruban, Associate Professor & Head / EEE

Coordinators:

1. Mrs.N.Rajeswari, Assistant Professor / EEE
2. Ms.E.Suganya, Assistant Professor / EEE
3. Mr.S.Sakthivel, Assistant Professor / EEE

Inaugural Session:

The dignitaries on the Dais during the inaugural session were Dr.S.Sivakumar, Vice Principal & T&P Head KCE, Dr.A.Albert Martin Ruban, Head / EEE, Mr.R.Sundaramoorthi Academic coordinator and Mrs.N.Rajeswari, Ms.E.Suganya and Mr.S.Sakthivel, Program Coordinators. The program was started by Thamizh Thaa

Vaazthu followed by Welcome address delivered by Mr.S.Sakthivel AP/EEE.The Presidential address was delivered by our Vice Principal Dr.S.Sivakumar.

Participants :

1. MEENACHI GOVINDHARAJAN POLYTECHNIC	-	19
2. CCMR POLYTECHNIC COLLEGE	-	3
3. GOVT.POLYTECHNIC COLLEGE – VALANGAIMAN	-	2
4. RAMYA SATHIYANATHAN	-	10
5. PRIST	-	6
6. PERIYAR	-	8
7. GOVT.POLYTECHNIC COLLEGE – PUTHUPATTI	-	32

Session 1- Introduction about Electrical Engineering by, Dr.S.Sivakumar, Vice Principal and Head/T& P, KCE :

The resource person started the session about the fundamentals of Electrical Engineering, Components and Symbols, Electrical equipments and Inventors, Current rating and voltage rating. He also delivered the lecture on Industrial and domestic wiring. During this session, the participants were actively interacted with the resource person.

Session 2: Design of Renewable Energy sources using Soft computing tools by Mrs.A.Prabha AP/EEE, KCE.

The introduction about the resource person of this session was given by Mr.R.Sundaramoorthi, AP/EEE. The resource person started the session with the basics of Renewable Energy with simple example followed by types of Renewable Energy and need of Renewable Energy, Global warming. She also delivered how Renewable Energy will be used in future of India. Finally she has mentioned that funding Agencies requirements and Job opportunities in Power sector. The session was very informative and the participants were interacted with the resource person.

Session 3: Practical session

After the Lunch break, the Laboratory session was conducted. Faculty members have demonstrated self controlled operation of synchronous induction motor, DSP based SRM motor, DSP based BLDC motor, FBGA based dc motor drive and stepper motor drive using Spartran 6.2i, Demonstration for live wire detector, range finder, motor and generator. This session was very interactive and useful.

Outcome:

The students were able to understand the basics of electrical and Renewable energy. They understand the awareness of renewable energy and job opportunities in power sector.

Valedictory Function:

The feedbacks from the participants regarding the workshop were collected. Then, Ms.E.Suganya, AP/EEE delivered the vote of thanks. The dignitaries issued certificates to all the participants. Finally the program ended with National anthem.

Event Photographs:



Welcome address delivered by Mr.S.Sakthivel AP/EEE



Presidential Address by, Dr.S.Sivakumar, Vice Principal And Head/T&P, KCE



Session 1: Introduction about Electrical Engineering by Dr.S.Sivakumar, Vice Principal



Participants listening the session



Session 2: Design of Renewable Energy sources using Soft computing tools by Mrs.A.Prabha AP / EEE



Session 3: Practical Sessions



Practical Session at Power Electronics Lab



Practical Sessions at Electrical Machines

Valedictory Function



Certificate distribution



Vote of thanks