Hands on Workshop on DigSILENT Power Factory for power system analysis.

Department of electrical and electronics engineering

Aim: To throw light on DigSILENT "DIgital SImulation of Electrical NeTworks".

It was conducted by: Shreyanka Patil, Spoorthi bekal.

About tools and networks used:

It is a Computer aided engineering tool for the analysis of transmission, distribution and many more.

Power Factory provides several modeling features for studying all kinds of electrical networks.

It covers many kinds of power system analysis, modeling & simulation.

Powerful network diagrams with graphic features which help in clear understanding

Helps in the functional integration of power system, its applicability to modeling of generation, transmission, distribution of industrial grids.

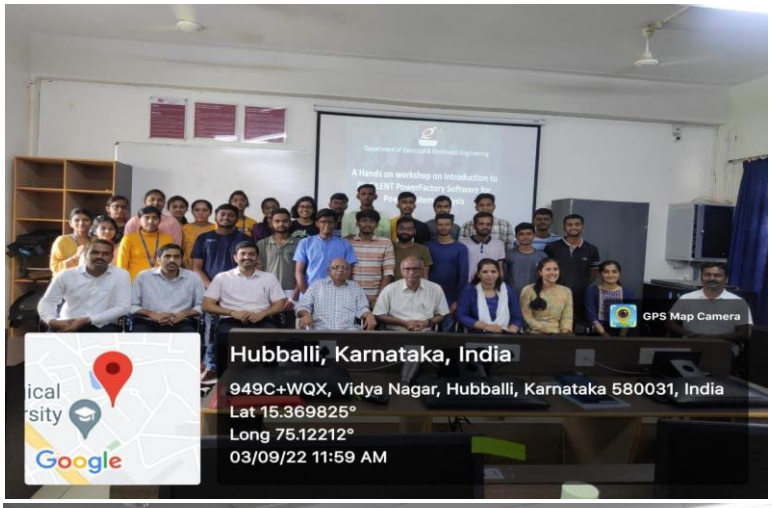
It provide a fresh perspective on how to model, simulate and analyze power systems.

About the workshop:

The workshop included both theory and hand-on session.

1.Theory session consisted of briefing about the features and functionality of the software.

2.In the hands-on session load flow analysis was carried out.

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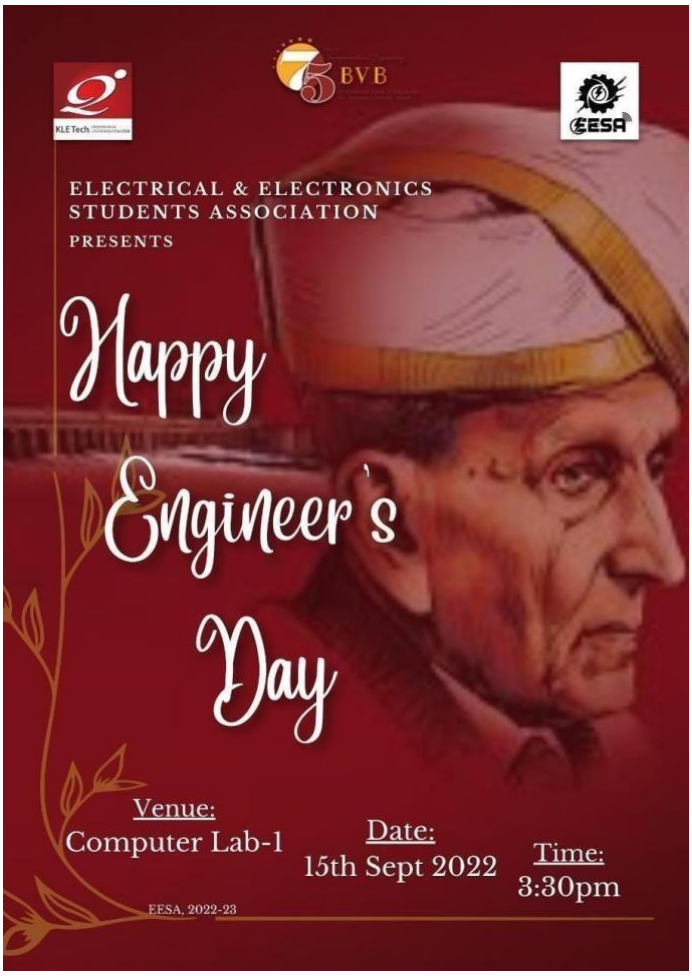
ENGINEER'S DAY CELEBRATION

Department of Electrical and Electronics Engineering



India observes Engineer's Day on **September 15** as a mark of remembrance and tribute to **Mokshagundam Visvesvaraya**, who is considered as one of the greatest engineers in the country.Along with India, Visvesvaraya's great works are also celebrated in Sri Lanka and Tanzania on September 15 as Engineer's day.

The event was held in computer lab 1 started by official event. Official event:

- Introduction.
- Significance of Engineer's day Welcome song.

- Lamp lighting.
- Speech by HOD and professor.
- Vote of thanks.

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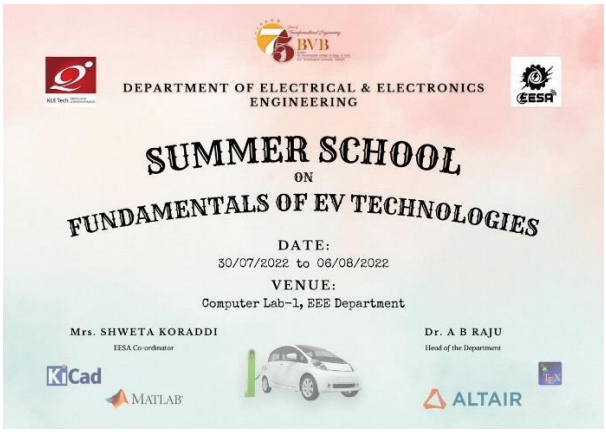
Happy
ENGINEERS'
Day


Happy
ENGINEERS'
Day

Summer School on Fundamentals of EV Technologies

Department of Electrical and Electronics Engineering



Who was there?

- Invited Speaker & Reviewer: Prof. Satish Annigeri
- Organised by Dr A B Raju , Mrs. Shweta Koraddi and core team of EEE Dept.

What was the event about?

- Why EV Technologies.

- Proposed Structure of the Summer School.
- Tools & Technologies.

Model Based Design PCB Design

✓ TI C2000 DSP's ✓ Schematics
✓ STM32 Microcontrollers ✓ Layout design
✓ MATLAB Simulink ✓ KiCAD
✓ Altair Embed

Where did the event take place?

Venue : Computer lab -1, EEE department.

Date : 30-07-2022 to 06-08-2022

Why was the event organised?

To provide crash course to sophomore students so that the students may aim to solve the real -engineering problems in power electronics and drives.

The learnings of the course, if practiced and applied to solve engineering problems will make students industry ready.

Subject to outstanding performance in the course, student will be on boarded to official team of EVIC, where he/she will be exposed to prevailing challenges in e-mobility vertical.

Expected Outcomes of the course:

Understand the intricacies of the EV as system

Develop mathematical model of a system based on specified requirements

Develop a code for TI processor using Altair Embed/MATLAB-Simulink employing MBD.

Execute quality projects leading to peer-reviewed conference and journal publications.

Generate good quality reports, papers, journals and presentations using LATEX.

TECH TALK ON EV TECHNOLOGIES

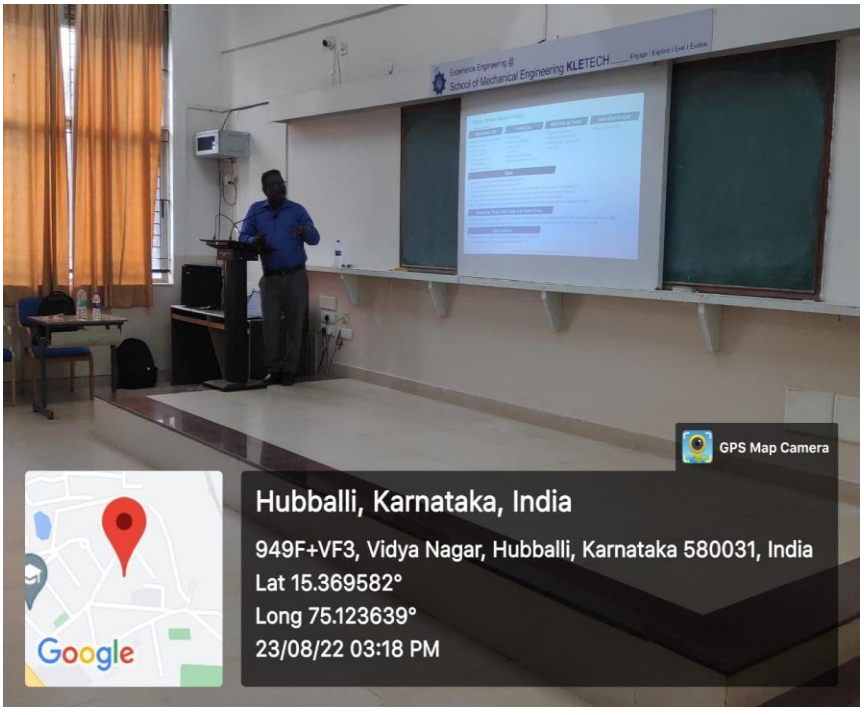
Department of electrical and electronics Engineering

Tech talk on EV technologies event was organised by Mrs. Shwetha Koraddi, Mr Hanumanthagouda R Patil and EESA group.

The event was held in computer lab 1 on 23rd September 2022 from 3:00pm to 4:30pm.

Resource person –Mr. Vasu M

- B.E Graduate in Electronics UVCE , Bangalore University India, Embedded systems Engineering BITS
- 30 years of industry experience on the following domain
- Automotive and industrial System design : Electrical/electronics, Embedded, Power electronics, Motor drives, Mechatronics, Control & Automation.
- Automotive: BMS, Junction box, emotor inverter, drives and eMotor test benches.
- Design experience in Power electronics: Converters, inverters, Class-D amplifiers.
- Design experience in Protection circuits, magnetics, modulation techniques, thermal design.
- Design experience in Analogue design: Power supplies, small signal and power amplifiers, filters, signal conditioning and data acquisition circuits, interface circuits for embedded systems.



An electric vehicle (EV) is a mode of transport which is powered by electricity. Unlike conventional vehicles that use a gasoline (petrol) or diesel-powered engine, electric cars and trucks use an electric motor powered by electricity from batteries or a fuel cell.

- Importance of Electric vehicle technologies in today's world were discussed.
- How Electric vehicles improves the future were discussed.
- Advantages of Electric vehicles were discussed.