



PRESIDENCY UNIVERSITY

Private University Estd. in Karnataka State by Act No. 41 of 2013

SCHOOL of ENGINEERING DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Year: 2022-2023

Semester: 5th

Section: 5-EEE-1

Date: 28-10-2022

Course Title: Electrical Distribution Systems.

Course Code: EEE2020

Type of Skill: Skill Development

Type of Activity: Participative Learning

Instructor in Charge: Mr. Ravi V Angadi.

Instructor for Section: Mr. Ravi V Angadi.

Details about the activity: The substation is the heart of the power system. Growing demand of power can be fulfilled by establishing new substations. New substation is located near the load centers as far as possible to minimize the line losses. The substation electrical equipment should be in an efficient working condition to derive reliable and efficient operation, optimum utilization, reduced down time, minimizing revenue loss etc. Investigations of failure of equipment's and taking preventive and corrective actions to avoid similar failures in future are the key to improvement. Based on the industrial visit on 28.10.2022 to 220 kV/66 kV/ 11kV Sir. M.V East Division Compound (Gas Insulated Substation), Bangalore the detailed report by covering the following points in the report;

1. Overview summary of the KPTCL.
2. Single Line Diagram of 220 kV/66 kV/ 11kV Sir. M.V East Division Compound (Gas Insulated Substation), Bangalore.
3. Brief description of instruments in the substation.

Topic of Activity: Industrial Visit

Details of the students involved in the activity:

Sl. No	Student Id No.	Name of the Student
1.	20201EAE0002	RAHEL ANN JOHNSON
2.	20201EAE0003	ANAND U R
3.	20201EEE0001	SONU KUMAR
4.	20201EEE0003	SHRAVANI N
5.	20201EEE0005	RAKSHITHA B
6.	20201EEE0007	S THYAGARAJ
7.	20201EEE0008	VARSHITHA GOWDA M

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8.	20201EEE0011	SAI NAYANA
9.	20201EEE0012	G YOGESHWARAN
10.	20201EEE0015	ABHISHEK TT
11.	20201EEE0016	PRITHEESH VARMA
12.	20201EEE0021	JILLIVARI KURUVA PRASAD
13.	20201EEE0022	YASHASWINI BG
14.	20201EEE0023	SHRUJAN H S
15.	20201EEE0025	VISHALA R
16.	20201EEE0026	MANJUNATH K
17.	20211LEE0001	DEEP CHATTERJEE
18.	20211LEE0002	T PERUMAL
19.	20211LEE0004	YOGENDRA
20.	20211LEE0005	SANTHOSH V
21.	20211LEE0006	PRABHAS M
22.	20211LEE0007	SANJAY M K
23.	20211LEE0008	MANOJ K P
24.	20211LEE0009	PAVAN V
25.	20211LEE0010	ROHIT GURUNATH MATHAPATI
26.	20211LEE0011	KISHORE TEJA S N
27.	20211LEE0012	HAMSA SHREE R
28.	20211LEE0013	CHARANREDDY S V
29.	20211LEE0014	AMBIKA M BIJAPUR
30.	20211LEE0015	NAGENDRA B
31.	20211LEE0017	NARESH R N
32.	20211LEE0018	MURULI A V
33.	20211LEE0019	G TARUN
34.	20211LEE0020	SACHIN P
35.	20211LEE0021	CHARAN P
36.	20211LEE0022	MOHAMMED SHAH ALAM
37.	20211LEE0023	PATEL CHIKKALINGE GOWDA
38.	20211LEE0024	MAHESH M R
39.	20211LEE0025	DARSHAN T C
40.	20211LEE0026	ARUNA P
41.	20211LEE0027	KUSHAL R
42.	20211LEE0028	SHASHANK GOWDA K N
43.	20211LEE0029	ABHI J T
44.	20211LEE0030	BABITHA GAIKWAD G
45.	20211LEE0031	RAMEGOWDA K T

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Sample Geo Tag Photos of the activity.



Fig. 1 5EEE students in front of 220kV/ 66 kV transformers at Sir. M.V East GIS, Bengaluru

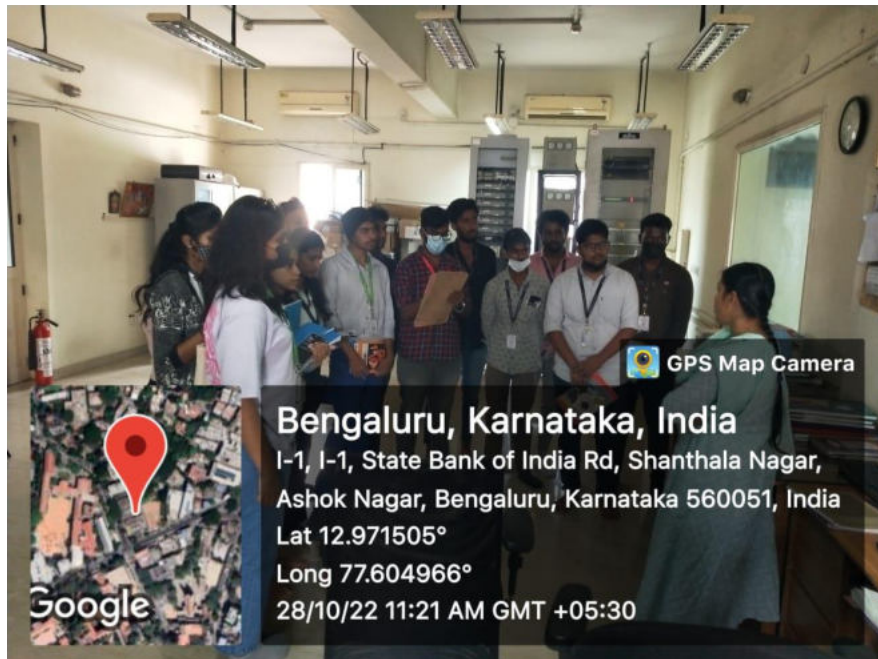


Fig. 2. The AE of the GIS substation explaining the various operations of GIS to our students at Sir. M.V East GIS, Bengaluru

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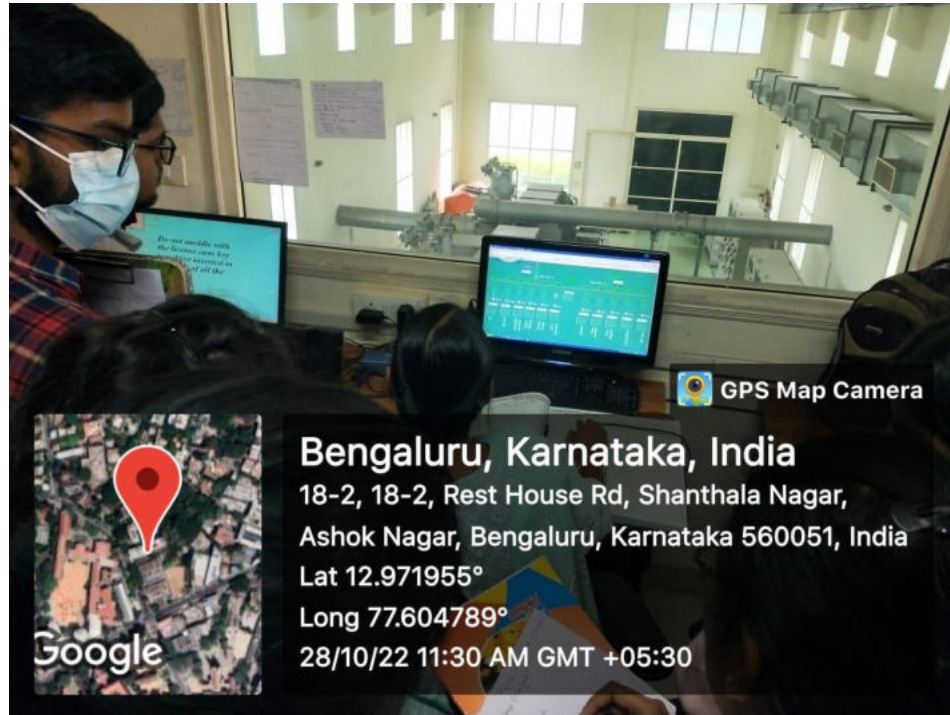


Fig. 3. The AE of the GIS substation explaining the Substation Automation to our students at Sir. M.V East GIS, Bengaluru

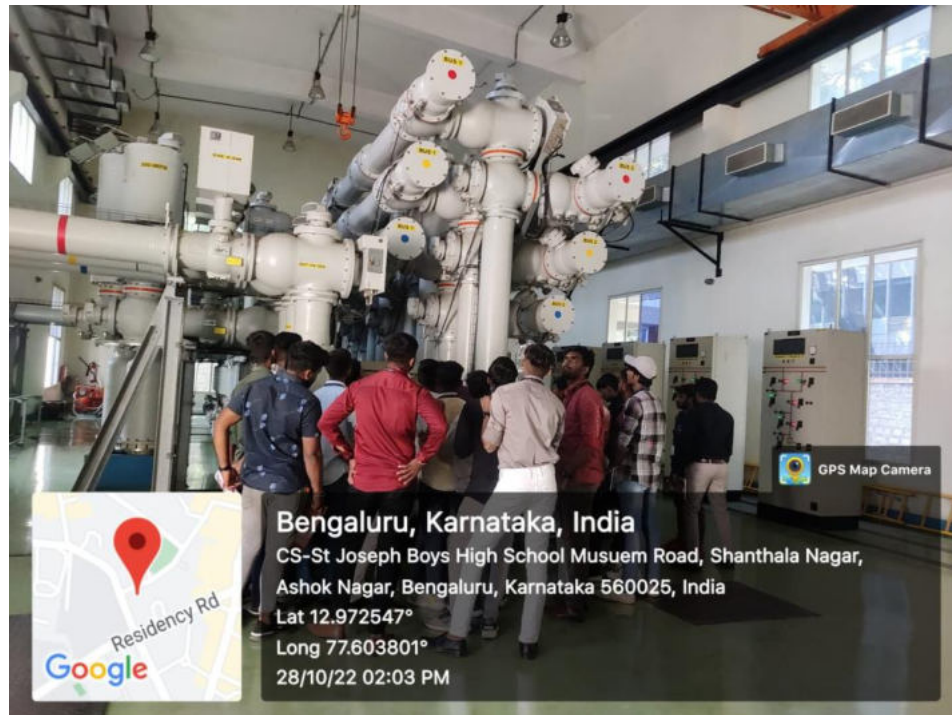


Fig. 4. The AE of the GIS substation explaining the Inside vie of the GIS to our students at Sir. M.V East GIS, Bengaluru

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Fig. 5. The group photo of all the students at Sir. M.V East GIS, Bengaluru

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Sample Student report based on Visit:



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Department of Electrical & Electronics Engineering



**INDUSTRIAL VISIT REPORT ON
Sir M. Visvesvaraya 220/66/11 KV G.I.S.
Sub-Station**

COURSE CODE /NAME:-EEE2020/EDS

COURSE INSTRUCTOR:
Ravi V Angadi

SUBMITTED BY:
Nagendra B
20211LEE0015

Signature of Instructor.

Signature of Instructor In-Charge

Dr V Joshi Manohar
Head of the Department
Electrical and Electronics Engineering
School of Engineering
HOD-EEE
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Rajankunte, Yelahanka, Bengaluru -04

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SCHOOL of ENGINEERING DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Year: 2022-2023

Semester: 7th

Section: 7-EEE-1

Course Title: Power System Protection

Course Code: EEE218

Type of Skill: Skill Development

Type of Activity: Participative Learning

Instructor in Charge: Dr. Sumit Kumar Jha

Instructor for Section: Dr. Sumit Kumar Jha

Details about the activity: Students were asked to write-up on any real-life application of protective relay in groups pertaining to participative learning. The activity focuses on Skill Development.

Topic of Activity: Write-up on Short Circuit Protection

Details of the students involved in the activity:

S.No	Name of the Student	Roll Number
1	20191EEE0004	ARUN S
2	20191EEE0005	ASFIYA AAZIM
3	20191EEE0006	ASHISH SINGH BHUMIJ
4	20191EEE0008	BINDHU D

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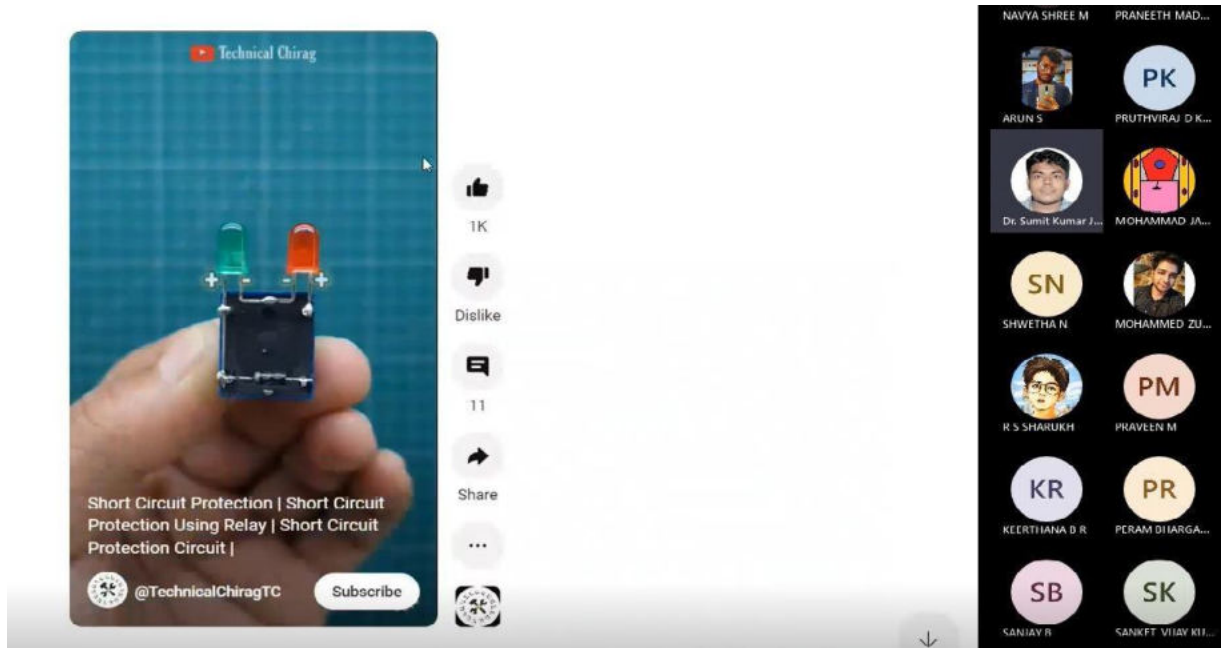
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Sample write-up as mentioned in the topic.



POWER SYSTEM PROTECTION
ASSIGNMENT

2019EEED008
BINDHU-D

* Write up on Relay used in the video given -
The Relay used in video was SV spin relay in those 3 pins are NO, NC Common, 2 output side are trigger pins / control pins
And in control pins side trigger high & low will be present & internal protection circuit will be responsible for fault condition analysis internal fuse tripping device are present in the Relay.

COMMENT ON THE VIDEO:-

In that we used green & red label's for visualization of fault condition. In regular scenario green led is on when he shorted the red light (LED) is ON which resembles the fault condition and the circuit is tripped OFF & using reseting button the recalled the real for normal usage.

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27/12/2022

Tuesday

Name: ARUN.S

Submit to: "Sumit Kumar Jha Sir"

ID No: 20191EEE0004

POWER SYSTEM PROTECTION [EEE218]

Q) Write up On Relay used in youtube link provided:

Ans The Relay used in video was 5V-pin relay. In these 3 pins are present. 3 are Input, 2 pins are output.

* 3 pins are:

- No
- Nc
- Common

* Outside side:

- Trigger pins
- Control pins

In control pins side trigger high and low will be present and internal protection circuit will be responsible for fault connection/Analysis.
Internal free wheeling diodes are present in the Relay.

Comment on Video:

In that he used green and Red LED's for visualisation of fault conditions. In regular scenario green LED is on when he sorted the red LED is ON which resembles the fault condition and the circuit is tripped off and using resetting button. He recalled the relay for normal usage.

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20191EE0005

POWER SYSTEM PROTECTION

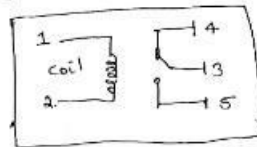
ASSIGNMENT - EEE218

* The components used are:

- 5V 5pin relay
- 5mm green LED
- 5mm red LED
- 33 Ω resistor
- 5V resistor
- push button
- 5V DC supply
- white LED strip.

* About 5V 5pin relay:

- Two pin (1 & 2) are output pins (coil).
- Remaining 3 pins [4, 3 & 5] are input pins namely NC, NO & common.



In control pins side trigger high & low will be present & internal protection circuit will be responsible for fault connection / Analysis internal free wheeling diodes are present in the relay.

2019EEEC0006
Ashish Singh Bhumi

1. Write up on Relay used in Youtube link provided :-

The Relay used in video was 5V - Sping relay. In those 3 pins are input, 2 pins are output. 3 pins are No, NC, Common, & output side are trigger pins/control pins.

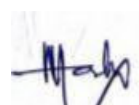
And in control pins side trigger High & low will be present and internal protection circuit will be responsible for fault connection/analysis. Internal Diode wheeling diodes are present in the Relay.

Comment on Video :-

In that he used green & red led's for visualisation of fault conditions. In regular scenario green led is on when he shorted the red led is ON which resembles the fault condition and the circuit is stripped off and using resetting button, he recalled the relay for normal usage.


Signature of Instructor:


Signature of Instructor In-Charge :


Dr. V Joshi Manohar
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SCHOOL of ENGINEERING DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Year: 2022-2023

Semester: 7th

Section: 5-EEE-1

Date: 12-12-2022

Course Title: Utilization of Electrical Energy.

Course Code: EEE311

Type of Skill: Employability Skills

Type of Activity: Participative Learning

Instructor in Charge: Dr. KAMALPATHI K

Instructor for Section: Dr. KAMALPATHI K

Name of the Module: ELECTRIC VEHICLES

Topics in the Module: Presentation on Introduction EVs, types of EVs, Analysis of various Components by using MATLAB software pertaining to Participative Learning

Mode of Instruction: Online

Teaching Pedagogy: Presentation and Demonstration using MATLAB Software .

Details of students involved:

Sl. No.	Student Roll No.	Name of the Student
1	20191EEE0013	KOTHAKOTA JAI RAMAKRISHNA
2	20191EEE0015	MANDADI KARTHIKEYAN REDDY
3	20191EEE0030	PRATHVIRAJ
4	20191EEE0037	SANJAY B
5	20191EEE0042	SHARANYA P C
6	20191EEE0045	SIVA PRASAD L
7	20191EEE0049	VARSHA B N
8	20191EEE0050	YARRABALLI NAVEEN
9	20191EEE0059	SHABBEER AHMAD MUJAVAR

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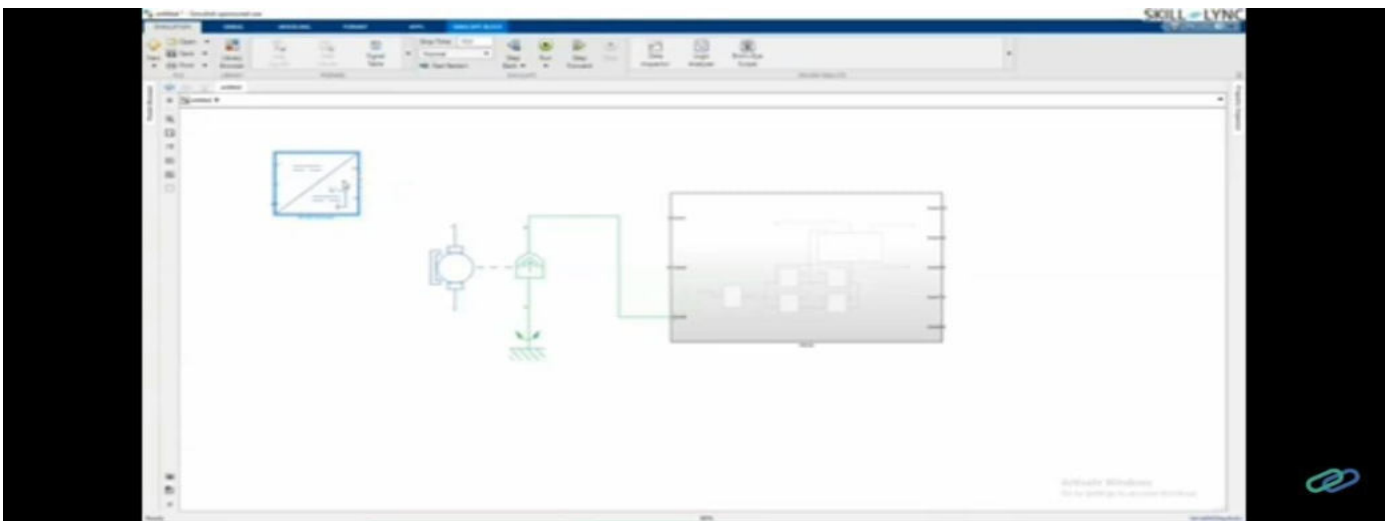
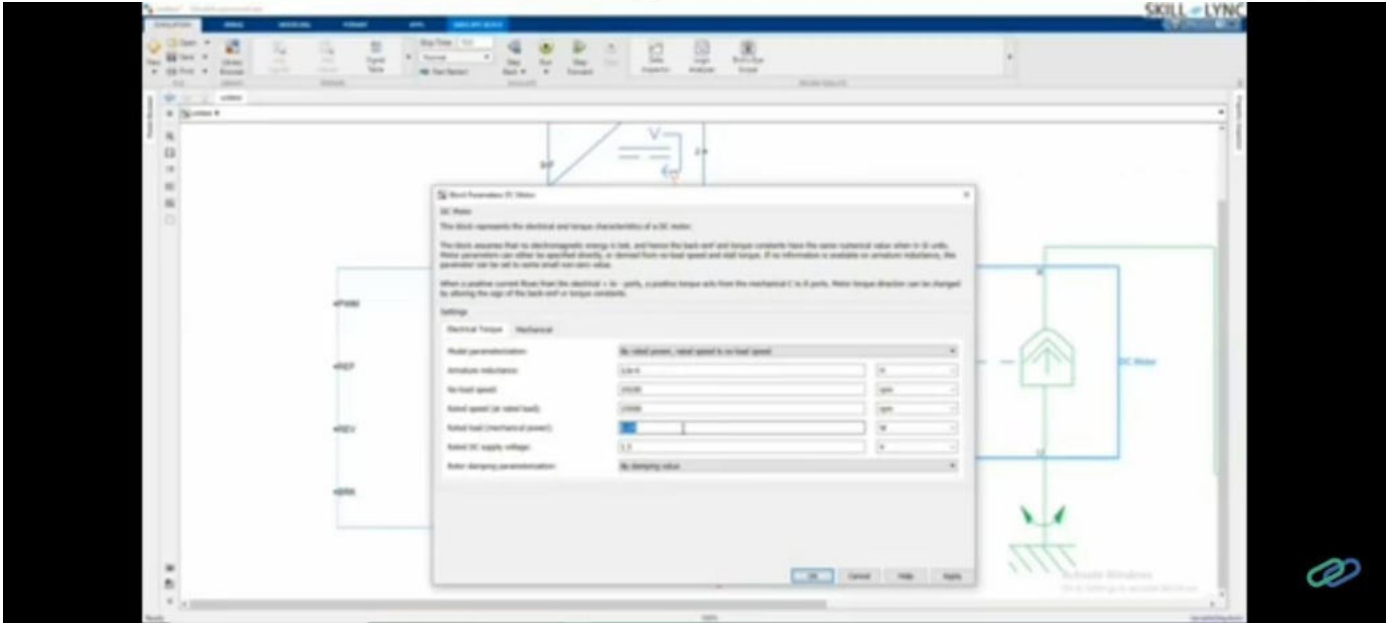
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Charger to Battery :

- AC/DC converter is placed between the charger and battery.
- Here the most used power converter is rectifiers with IGBT built
- Operation: Charge the battery. Converts the incoming AC to DC at a suitable range for the battery to charge.

- Power flow: From Charger to Battery only(unidirectional)



k.kulapatri.

Signature of Instructor.

k.kulapatri.

Signature of Instructor In-Charge

Manohar

Dr. V Joshi Manohar
Head of the Department
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SCHOOL of ENGINEERING DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Year: 2022-2023

Semester: 4th

Section: 4-EEE-1

Date:02.06.2023

Course Title: Battery Management System

Course Code: EEE3036

Type of Skill: Employability Skill

Type of Activity: Simulation based Learning

Instructor in Charge: Mr. Sunil Kumar A V

Instructor for Section: Mr. Sunil Kumar A V

Details about the activity: Students were asked to present on any Simulink based model on Battery Management System in group wise.

Topic of Activity: Matlab Simulation Model presented by Students.

Details of the students involved in the activity: All the students of 4EEE-1.

Details of the students involved in the activity: 4EEE1 Students

Sl. No	Student Id No.	Name of the Student
1.	20211EAE0027	DUSHANTH B
2.	20211EEE0001	PENUGONDA CHARAN
3.	20211EEE0002	SHAIK AHAMMAD
4.	20211EEE0003	SUMAN
5.	20211EEE0004	YAMUNA M N
6.	20211EEE0005	HARIKRISHNA
7.	20211EEE0006	PIYUSH NISHAD
8.	20211EEE0007	GAGANMURTHY
9.	20211EEE0008	HRUTHIK H B
10.	20211EEE0009	ANUSHA B
11.	20211EEE0010	SUPRITH D L
12.	20211EEE0011	NITHISH U
13.	20211EEE0012	VIDYA SHREE G N
14.	20211EEE0013	R V GANESH
15.	20211EEE0014	SINCHANA M
16.	20211EEE0015	BINDHU R C
17.	20211EEE0016	GAGAN SAI A S
18.	20211EEE0017	KAVYA N
19.	20211EEE0018	ROHAN R
20.	20211EEE0019	BHARATH H D
21.	20211EEE0020	RUDRAGOUDA K POLICE PATIL
22.	20211EEE0021	HARSHITHA B S
23.	20211EEE0023	MASROOR AHMED

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25.	20211EEE0025	RATHISH HOMBALE N
26.	20211EEE0026	MOHAMMED AIMAN KHAN
27.	20211EEE0027	YASHWANTH KUMAR S
28.	20211EEE0028	ADARSH A
29.	20211EEE0029	CHETHAN S KATTI
30.	20211EEE0030	JATIN SHARMA
31.	20211EEE0031	TEJASHWINI ANNAPPAGOUDA PATIL
32.	20211EEE0032	MANTHU NANDHINI
33.	20211EEE0033	MOHAMMAD NABEEL ABBAS
34.	20211EEE0034	RAJANEESH B S
35.	20211EEE0035	V RAHUL BALAJIGA
36.	20211EEE0036	DEEPAK DANIEL F
37.	20211EEE0037	KHALEEL H TELSUNG
38.	20211EEE0038	HEMANT PANDIT
39.	20211EEE0039	AKASH K
40.	20211EEE0040	MOHAMED THABISH .
41.	20211EEE0041	NAYANI POORNACHANDAN ROYAL
42.	20211EEE0042	ABHISHEK BASAVARAJ HAMPANNAVAR
43.	20211EEE0043	RISHIKA R
44.	20211EEE0044	MOHAMMED ABRAR .
45.	20211EEE0046	BASIL BINU
46.	20211EEE0047	G KIRAN KUMAR
47.	20211EEE0048	SAGAR D M
48.	20211EEE0050	YASWANTH BUDURI
49.	20211EEE0051	MADIVADA HEMANTH
50.	20211EEE0052	YENNABOINA RAHUL
51.	20211EEE0053	KARRI GOWRI ESWAR
52.	20211EEE0055	SETTIPALLI SAINATH
53.	20211EEE0056	SHREYAS E
54.	20211EPE0002	SIRICHAPALA UDAY MALIK
55.	20221LEE0001	NANDYALA SIVA MANOJ REDDY
56.	20221LEE0002	CHINTHA MANJUNATH
57.	20221LEE0003	K TUNISH
58.	20221LEE0004	KUPPAM MANJUNATHA
59.	20221LEE0005	RITHIKA RAJ
60.	20221LEE0006	BHUVAN B U
61.	20221LEE0007	RAGHU M

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Sample Presentation as mentioned in the topic.

COURSE NAME : BATTERY MANAGEMENT SYSTEM

COURSE CODE : EEE3036

REPORT BASED ON MATLAB SIMULATION OF IOT BASED BATTERY MANAFEMENT SYSTEM PERFORMED BY THE TEAM

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GAIN MORE KNOWLEDGE
REACH GREATER HEIGHTS

COURSE NAME : BATTERY MANAGEMENT SYSTEM
COURSE CODE : EEE3036

ASIGNMENT - 2
REPORT BASED ON MATLAB SIMULATION OF IOT BASED BATTERY MANAFEMENT SYSTEM PERFORMED BY THE TEAM

TEAM MEMBERS :

NAME	ROLL NUMBERS
Adarsh A	20211EEE0028
Jatin Sharma	20211EEE0030
Khaleel H Telsurg	20211EEE0037
Mohammed Aiman Khan	20211EEE0026
Masroor Ahmed	20211EEE0023

Abstract

This report presents a Matlab simulation of an IoT-based battery management system for the effective monitoring and maintenance of batteries in IoT devices. The objective of this study is to develop and evaluate a battery management system that leverages the power of IoT technology to optimize battery performance, extend battery life, and improve overall device reliability. The simulation methodology involves the design and implementation of a system architecture comprising sensors, microcontrollers, and communication modules for data acquisition and transmission. A battery model based on an equivalent circuit model is used to simulate battery behavior. Communication protocols and data preprocessing techniques are employed to facilitate efficient data collection and analysis.

The simulation results demonstrate the effectiveness of the proposed IoT-based battery management system. The system accurately estimates battery parameters such as state of charge and state of health, enabling real-time monitoring of

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battery performance. Moreover, prediction models for estimating the remaining useful life of batteries provide valuable insights into battery degradation and facilitate proactive maintenance strategies.

Comparative analysis with existing battery management techniques reveals the superior performance of the IoT-based system in terms of battery monitoring accuracy, efficiency, and reliability. The simulation study highlights the potential benefits of IoT technology in revolutionizing battery management practices and enhancing the overall performance and lifespan of batteries in IoT devices. The findings of this study contribute to the growing body of knowledge in the field of IoT-based battery management systems and provide a foundation for future research and development in this area. The proposed system has the potential to address the challenges associated with battery management in IoT applications and pave the way for more efficient and reliable IoT deployments.

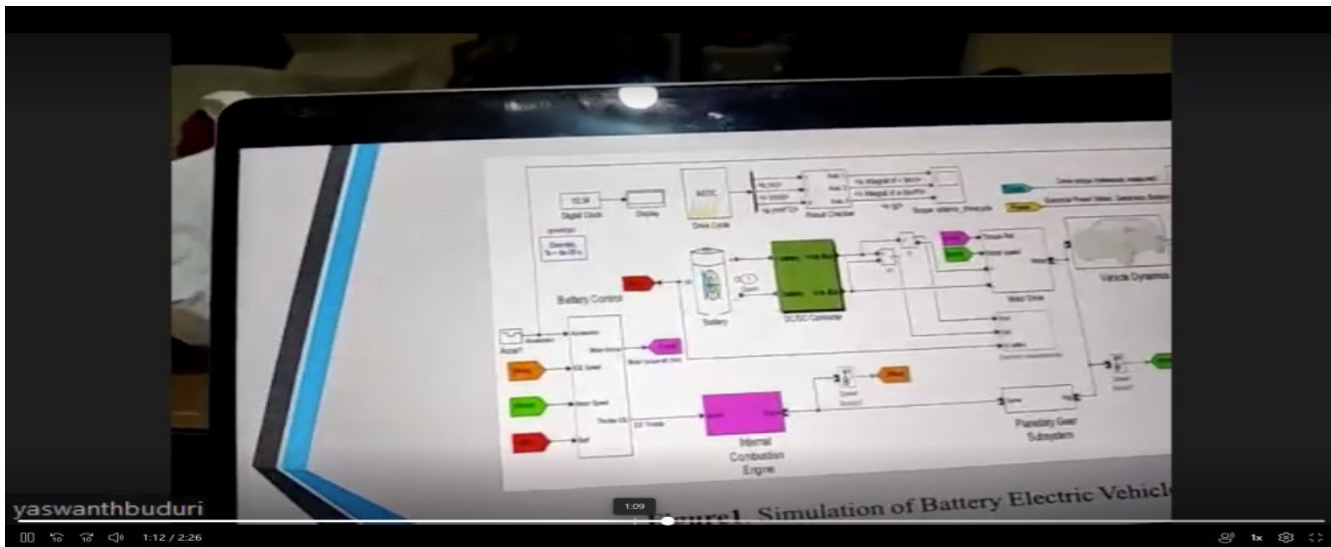




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Signature of Instructor.

Signature of Instructor In-Charge

Dr. V Joshi Manohar

Head of the Department
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Year: 2022-2023

Semester: 6th

Section: 6-EEE-1

Course Title: Switchgear & Protection

Course Code: EEE3003

Type of Skill: Skill Development

Type of Activity: Participative Learning

Instructor in Charge: Dr. Sumit Kumar Jha.

Instructor for Section: Dr. Sumit Kumar Jha.

Details about the activity: Students were asked to present Simulink model of differential protection scheme in groups pertaining to participative learning. The activity focuses on Skill Development.

Topic of Activity: Presentation on modelling of differential protection scheme

Details of the students involved in the activity:

S.No	Roll Number	Name of the Student
1	20201EEE0015	ABHISHEK TT
2	20211LEE0002	THATHIREDDY PERUMAL
3	20211LEE0003	FAKIR SAEED SALIMSHA

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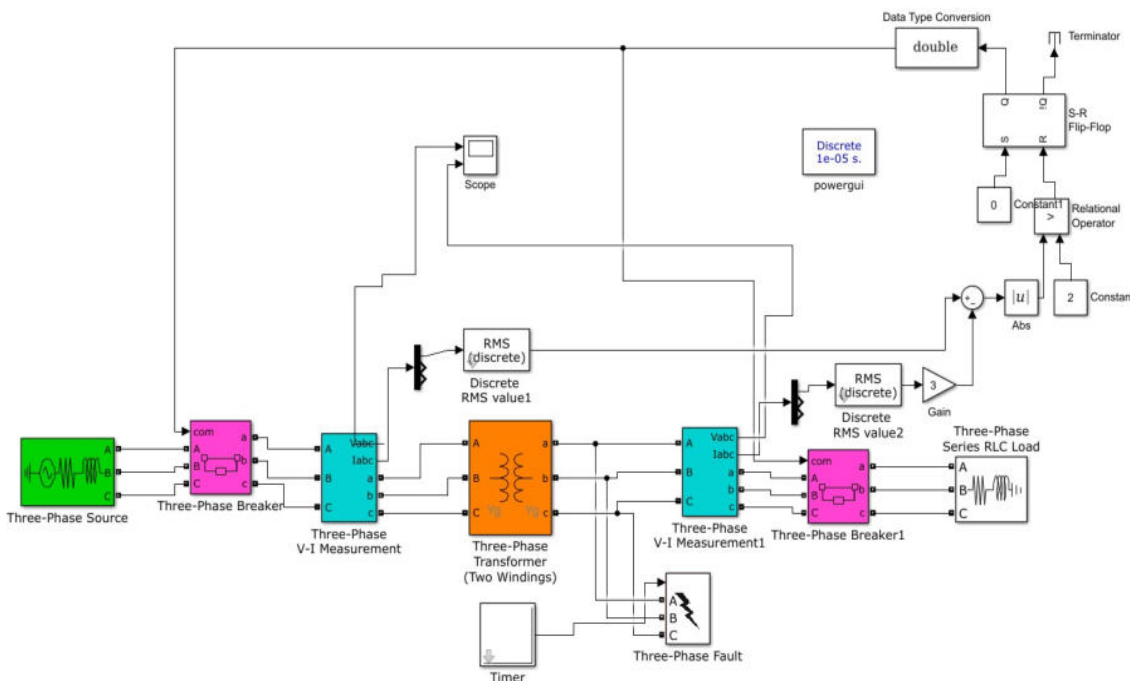
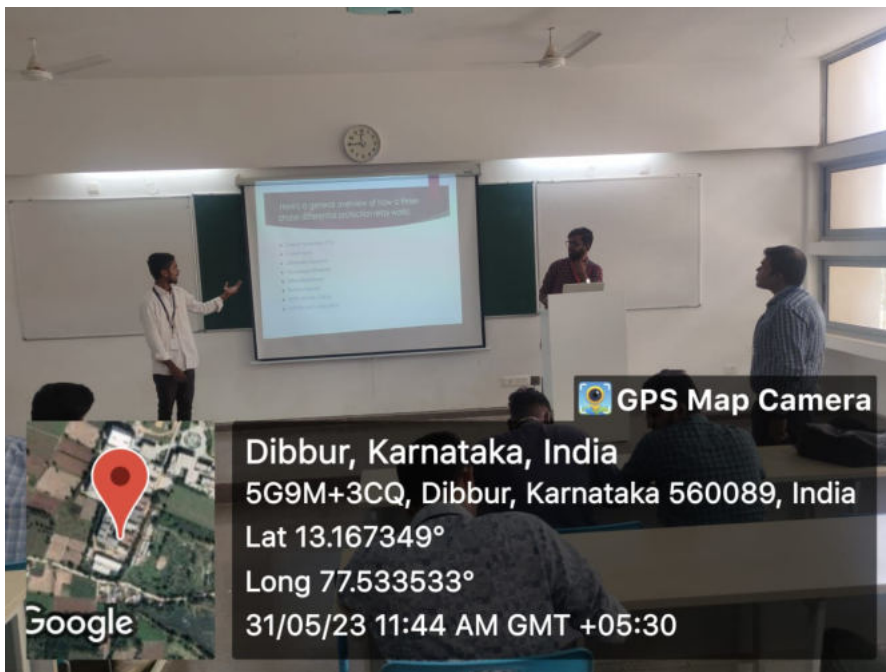


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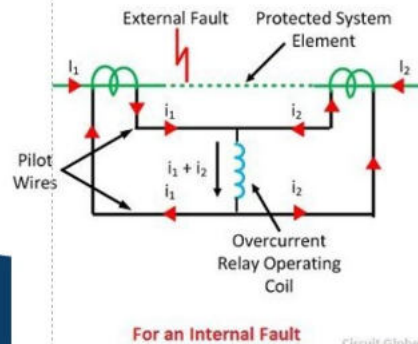
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Current Differential Relay

- ❑ In the normal operating condition, the magnitude of current in the secondary of the CTs remains same.
- ❑ The zero current flows through the operating coil.
- ❑ On the occurrence of the fault, the magnitude of the current on the secondary of CTs becomes unequal because of which the relay starts operating.



[Handwritten Signature]

Signature of Instructor.

[Handwritten Signature]

Signature of Instructor In-Charge

[Handwritten Signature]

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SCHOOL of ENGINEERING DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Year: 2022-2023

Semester: 6th

Section: 6-EEE-1

Course Title: Electrical Power Utilization

Course Code: (EEE3031)

Type of Skill: Employability

Type of Activity: Participative Learning

Instructor in Charge: Ms. Priyanka Ray

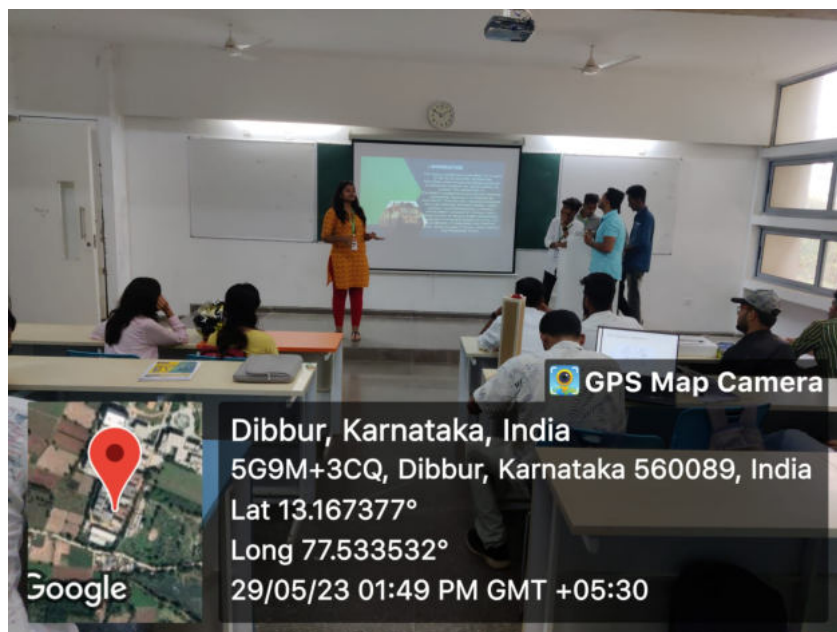
Instructor for Section: Ms. Priyanka Ray

Details about the activity: Students were asked to present on any Simulink or hardware based model on application of Electric Traction in groups pertaining to participative learning.

Topic of Activity: Mini Project with Slides Presentation on Electric Traction.

Details of the students involved in the activity: All the students of 6EEE-1.

Sample Presentation as mentioned in the topic.



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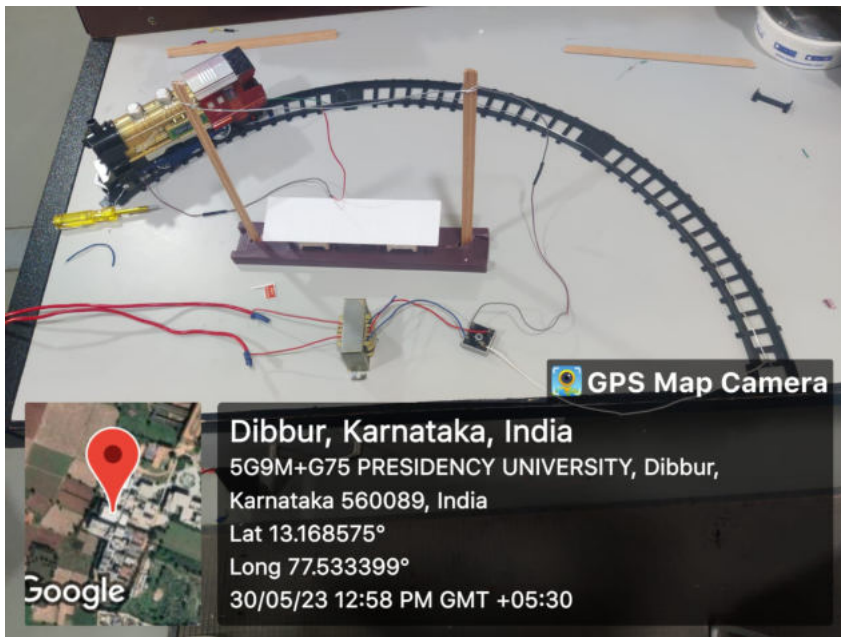




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Priyanka Ray

Signature of Instructor.

Priyanka Ray

Signature of Instructor In-Charge

Manohar

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SCHOOL of ENGINEERING DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Year: 2022-2023

Semester: 6th

Section: 6-EEE-1

Date: 17.05.2023

Course Title: Flexible AC Transmission Systems

Course Code: EEE3021

Type of Session: Presentation

Instructor in Charge: Mr Bishakh Paul

Instructor for Section: Mr Bishakh Paul

Type of Skill: Employability

Type of learning: Participative Learning

Details about the activity: Students were asked to present on any Simulink based model on application of FACTS devices in groups pertaining to Participative learning in Power system. The activity focuses on development on Employability skills.

Topic of Activity: Presentation and analysis of MATLAB simulation of TCSC

Details of the students involved in the activity: All students of 6-EEE-1

Sample Presentation as mentioned in the topic.

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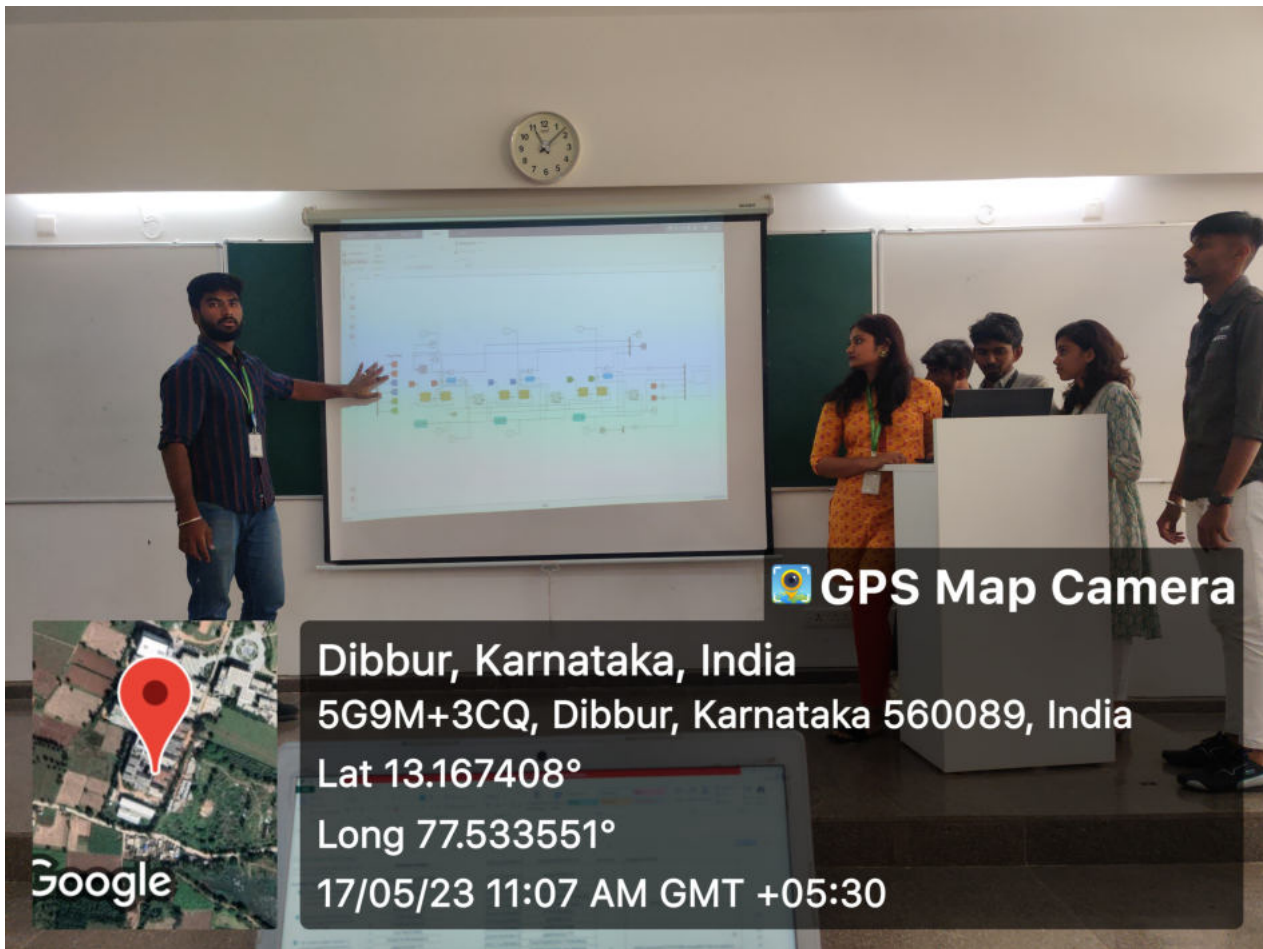




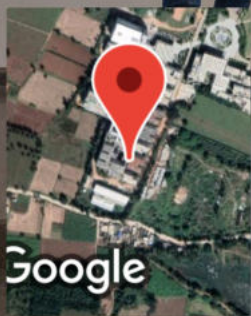
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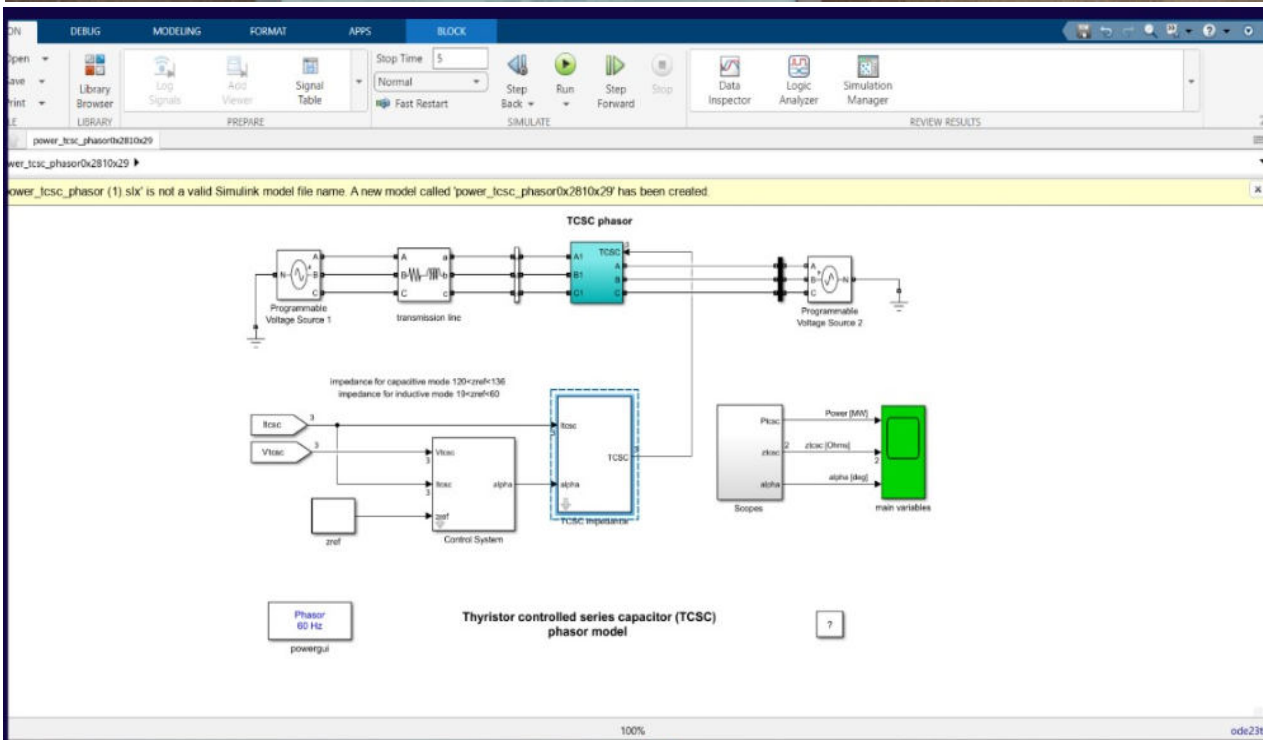
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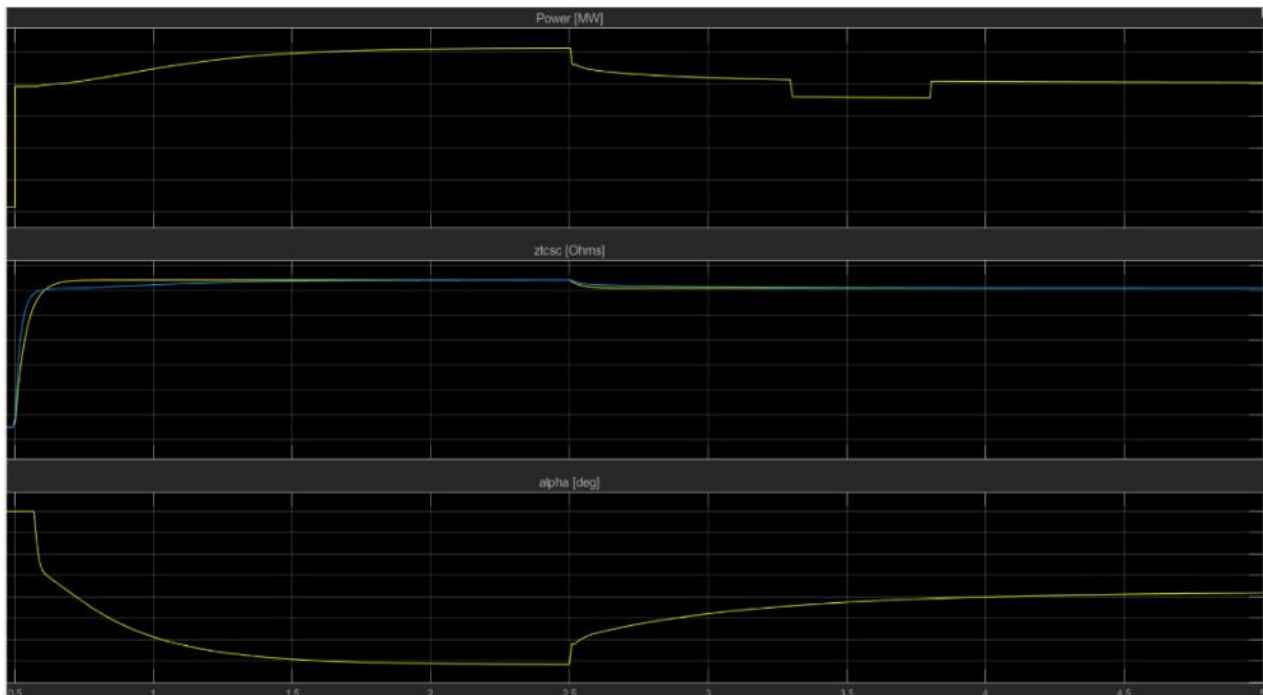




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Signature of Instructor.

Signature of Instructor In-Charge

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SCHOOL of ENGINEERING DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Year: 2022-2023

Semester: 6th

Section: 6-EEE-1

Course Title: Sensors and Transducers

Course Code: EEE3046

Type of Skill: Employability

Type of Activity: Participative Learning

Instructor in Charge: Dr Jisha L K

Instructor for Section: Dr Jisha L K

Details about the activity: Students were divided into groups and each group was asked to do a mini project which uses sensors. Students have to show the hardware model and do a power point presentation on the same.

Topic of Activity: Mini Project with Slides Presentation

Details of the students involved in the activity: All the students of 6EEE-1.

List of students

Sl. No.	Student ID No	Name
1	20201EAE0002	RAHEL ANN JOHNSON
2	20201EAE0003	ANAND UR
3	20201EEE0001	SONU KUMAR
4	20201EEE0003	SHRAVANI N
5	20201EEE0005	RAKSHITHA B
6	20201EEE0007	S THYAGARAJ
7	20201EEE0008	VARSHITHA GOWDA M
8	20201EEE0011	SAI NAYANA A
9	20201EEE0012	G YOGESHWARAN
10	20201EEE0015	ABHISHEK TT
11	20201EEE0016	KAMPA PREETHISH
12	20201EEE0018	FIZA
13	20201EEE0021	JILLIVARI KURUVA PRASAD
14	20201EEE0022	YASHASWINI BG

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15	20201EEE0023	SHRUJAN H S
16	20201EEE0025	VISHALA R
17	20201EEE0026	MANJUNATH K
18	20211LEE0001	DEEP CHATTERJEE
19	20211LEE0002	THATHIREDDY PERUMAL
20	20211LEE0003	FAKIR SAEED SALIMSHA
21	20211LEE0004	YOGENDRA
22	20211LEE0005	SANTHOSH V
23	20211LEE0006	PRABHAS M
24	20211LEE0007	SANJAY M K
25	20211LEE0008	MANOJ K P
26	20211LEE0009	PAVAN V
27	20211LEE0010	ROHIT GURUNATH MATHAPATI
28	20211LEE0011	KISHORE TEJA S N
29	20211LEE0012	HAMSA SHREE R
30	20211LEE0013	CHARANREDDY S V
31	20211LEE0014	AMBIKA M BIJAPUR
32	20211LEE0015	NAGENDRA B
33	20211LEE0016	NIRANJAN JAGADISH PAMMAR
34	20211LEE0017	NARESH R N
35	20211LEE0018	MURULI A V
36	20211LEE0019	G TARUN
37	20211LEE0020	SACHIN P
38	20211LEE0021	CHARAN P
39	20211LEE0022	MOHAMMED SHAH ALAM
40	20211LEE0023	PATEL CHIKKALINGE GOWDA
41	20211LEE0024	MAHESH M R
42	20211LEE0025	DARSHAN T C
43	20211LEE0026	ARUNA P
44	20211LEE0027	KUSHAL R

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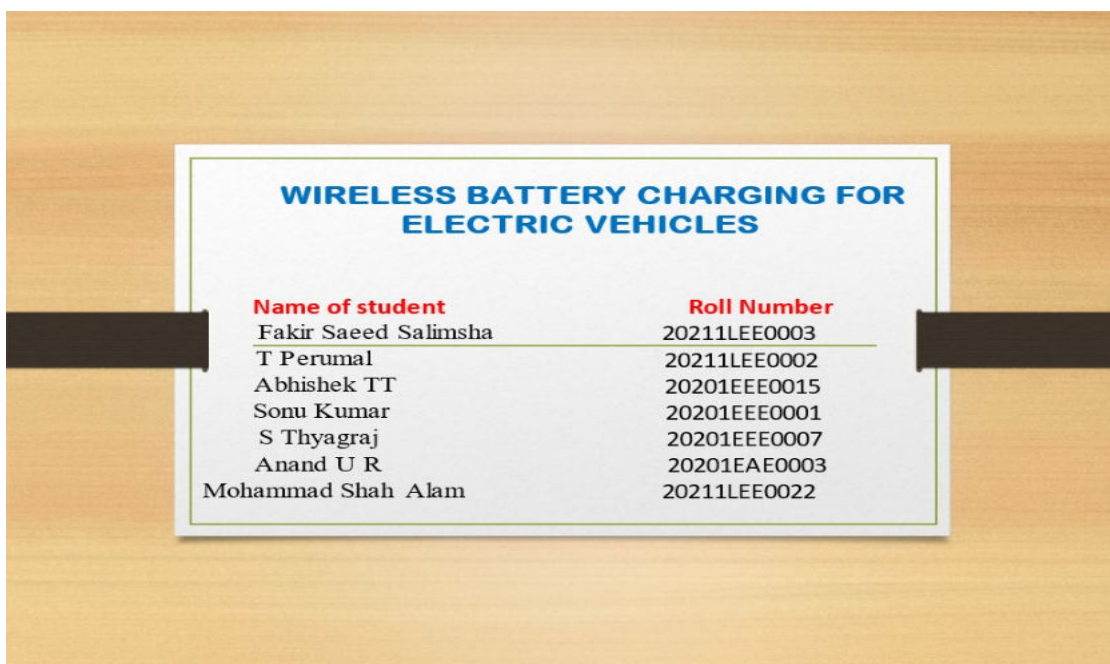
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45	20211LEE0028	SHASHANK GOWDA K N
46	20211LEE0029	ABHI J T
47	20211LEE0030	BABITHA GAIKWAD G
48	20211LEE0031	RAMEGOWDA K T

Sample Presentation



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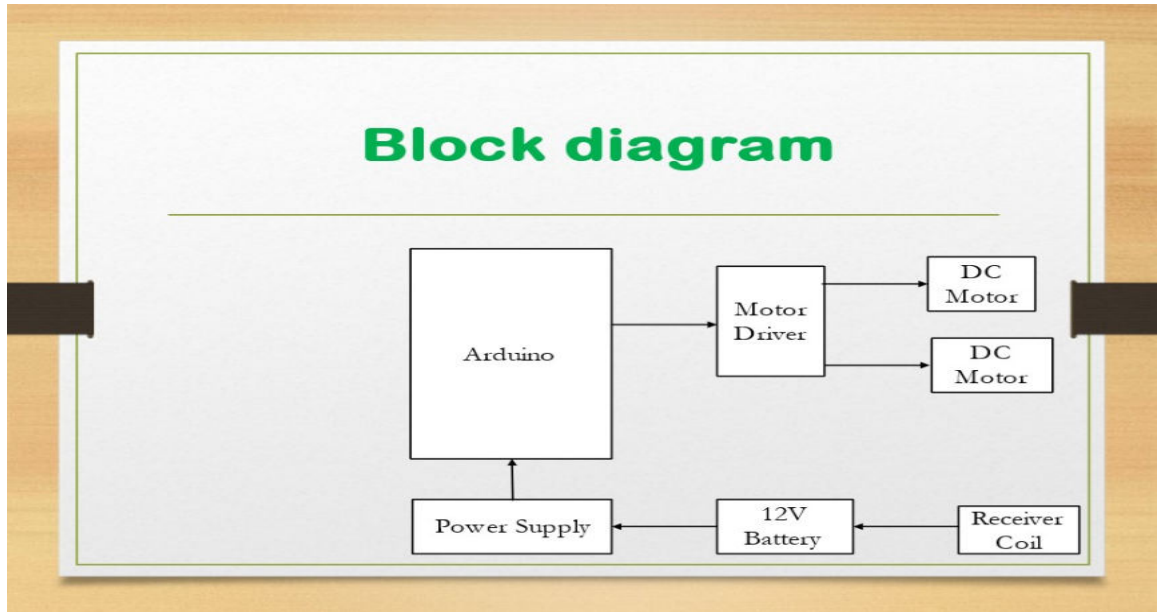
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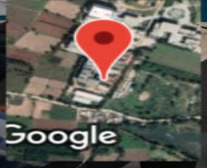
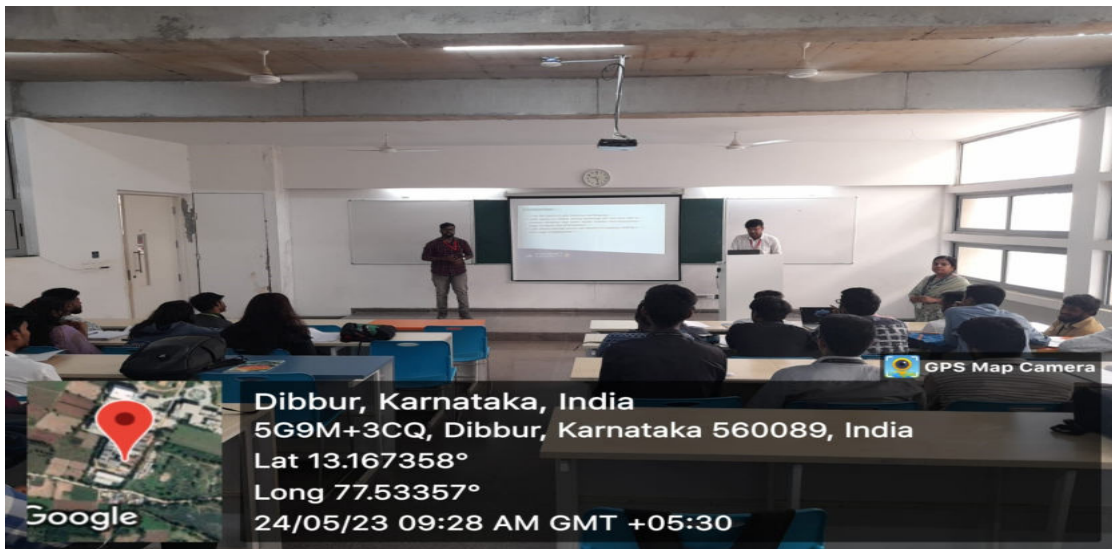




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Signature of Instructor.

Signature of Instructor In-Charge

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