



MARATHA VIDYA PRASARAK SAMAJ'S
KARMAVEER ADV. BABURAO GANPATRAO THAKARE
COLLEGE OF ENGINEERING



Permanently Affiliated to Savitribai Phule Pune University Vide Letter No: CA/1542
& Approved by AICTE New Delhi Vide Letter No: 740-89-32 (E) ET/98
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Department of Engineering Science

Innovative Teaching Method - Report

Academic Year –2020-21	Class – FE (Div A)
Semester–II	Date: 30/7/2021
CO:CO1,CO2,CO3,CO4,CO5,CO6	PO: PO9, PO10 & PO12

Title of Innovation method/activity: **Screen-cast** by using Google Classroom

1. Name of Faculty: **Mr. P. V. Joshi**

2. Subject : **Basic Electrical Engineering**

3. Objective of Method

- It helps students to clear the concept.
- It helps to improve communication skills, self learning & confidence.
- To improve the team work.

4. Topic Covered through Activity

Topic related to Basic Electrical Engineering subject.

5. Description of method with Benefit

Description of method

In this method students are asked to make video on given topic and upload it on YouTube channel.

Benefits of method

- It helps students to improve subject knowledge.
- It helps students to improve communication skills , self-learning and confidence.
- It helps students to understand the concepts and revised the topic.

6. Roles and Responsibilities

Teacher

- Encourage students to prepare a video on a given topic and upload it on Google Classroom.
- Provide the study material on Topic .
- Remain available during the completion of the task.
- Prepare assessment methodology.

Student

- Go through the concept of the topic.
- Once a topic is assigned, understand and discuss individually within the group.
- Actively participate in groups and contribute by means of discussion.

Group

- Form the group of members as per the guidelines by teachers.
- Understand and discuss to finalize the best solution for the assigned task.
- Assign the work within the group to achieve the task within stipulated time period.

7. Assessment Tools : Maximum Marks 30

Understanding	10	6	3
	Excellent	Good	poor
	Clarity of concepts, Confidence, Appropriateness	Clarity of concepts, Confidence,	Clarity of concepts
Visual & audio Quality (Presentation)	10	6	3
	Excellent	Good	poor
	Good visual quality, Well-rehearsed, smooth delivery in a conversational style, Voice is clear, expressive and enthusiastic	Good visual quality, Well-rehearsed, smooth delivery in a conversational style,	Good visual quality,
Use of Technology	10	6	3
	Excellent	Good	poor
	Screencast length keeps the audience interested & engaged	Screencast length is adequate	Screencast length is inadequate

8.Evaluation sheet of attendee:

A - Understanding (10)

B - Visual & Audio quality (10)

C - Use of Technology (10)

Name of Student	A	B	C	Total
Ekta Bhavsar	7	7	7	21
Sudhanshu Deshmukh	7	9	9	25
Abhishek Bankar	8	8	8	24
Shravani Aher	9	9	7	25
Arpita Aher	7	7	7	21
Manasi Ahire	8	8	7	23
Harshali Ahirrao	7	8	8	23
Rupali Avhad	7	8	8	23
Aditya Bagul	8	8	7	23
Avantika Benke	7	6	6	19
Yash Bhadane	7	7	7	21
Samruddhi Bhandare	9	8	7	24
Abin Biju	7	7	8	22
Raina Borsa	7	7	7	21
Rohan Dash	10	8	8	26
Siddhi Duseja	9	7	8	24
Tejas Gandhalikar	7	7	7	21
Shruti Golesar	7	7	7	21
Sakshi Jadhav	7	6	6	19
Aaditya Joshi	7	7	7	21
Sohan Rajkule	7	7	7	21
Vaibhav Deshmukh	7	7	7	21
Yogita Bhamare	6	6	7	19

9. Impact Analysis

Sr. No.	3- High/Excellent	2-Moderate /Average	1- Slight/Poor
1. Did you understand and cover the objective of the activity?	83.33%	16.67%	-
2. Do you find that methodology is helpful to cover the content from the syllabus?	80.55%	19.44%	-
3. Does this help you increase your knowledge of the topic?	86.11%	13.88%	-
4. Did you want us to conduct such activity again?	80.55%	19.44%	-
5. Do you feel PO9 is achieved?	75.00%	25.00%	-
6. Do you feel PO10 is achieved?	80.55%	19.44%	-
7. Do you feel PO12 is achieved?	86.11%	13.88%	-

10. Activity Video Links: (samples)

<https://youtu.be/qU9rUuKBiEA> - MMF, Flux & Reluctance

<https://youtu.be/zrI0IDk2HR4> – RLC AC Circuit

<https://youtu.be/6xvDA1KtLnU> - Direct Loading Test of Single Phase Transformer

<https://youtu.be/fUGYaSS4VUk> - Superposition Theorem

11. Activity Video Screenshots:

FE A DIV BEE 202021 SEM 2 Instructions Student work

Return 30 points

All students

Sort by status

Turned in

A 7 Ekta Bhavsar	21	Draft
A_14_sudhanshu_deshmuk	25	Draft
A 50 Abhishek Bankar	24	Draft
A 54 SHRAVANI AHER	25	Draft

All

- A 7 Ekta Bhavsar: losses in transformer... Turned in late
- A_14_sudhanshu_deshmuk: https://www.youtube... Turned in
- A 50 Abhishek Bankar: conversion of electric... Turned in late
- A 54 SHRAVANI AHER: Force Acting on a curr... Turned in late
- A-2 Arpita Aher: 27 July 2021 Turned in late
- A-3 MANASI AHIRE: Comparison between ... Turned in

Google Classroom Screencast Activity Page

S Force Acting on a current carrying conductor placed in a ma... Copy link

Force Acting on a Current Carrying Conductor Placed in Magnetic Field

Remember: Fingers of Right Hand to Understand Direction of force

- Whenever a current flows through a conductor in the presence of magnetic field a force is exerted on the conductor.
- Magnitude of the force:
 - The magnitude of the force experienced by the current carrying conductor placed in the magnetic field is given by,

$$F = IBL \sin \theta \text{ Newton}$$

The force is dependent on/perpendicular to original line directly to current flowing through the conductor, I Length of the conductor, value of angle, θ .

Fleming's Left Hand Rule:

- If states that if the first three fingers of the left hand are held mutually at right angles to each other & if the index finger indicates the direction of field, the middle finger indicates the direction of current flowing through conductor then the thumb indicates the direction of force exerted on the conductor.

Thumb (Force)
 Index finger (Field)
 Middle finger (Current)

0:32 / 1:58 YouTube

Submission by Ms. Shravani Aher (Topic: Force Acting on Current Carrying Conductor Placed in Magnetic Field)



Submission by Mr. Rohan Dash (Topic:What is MMF, Flux & Reluctance)

12.For review and critique contact: e-mail address of faculty and HOD

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Ms. J. J. Nerkar
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