

Electronics & Telecommunication Engineering

Academic Year – 2020-21	Class: BE
Semester – I	Date : 08 & 09/12/2020
CO6: Present documentation for development of electronic product.	PO: 8,9,10,12

Innovative Teaching Methods

Title of Innovation method/activity: Flip classroom

1. Name of Faculty: Ms. D.V.Patil

2. Subject: Electronics Product Design

3. Objective of Method:

I] To study importance of documentation for electronic products development.

II] To present different types of documents used for development of electronic product.

4. **Topic Covered through Activity:**

- 1] Need and types of documentation.
- 2] Records, Accountability, and Liability.
- 3] Audience.
- 4] Preparation, Presentation, and Preservation of documents.
- 5] Methods of documentation,
- 6] Visual techniques,
- 7] Layout of documentation,
- 8] Bill of material.

5. **Description of method with Benefits (8 – 10 lines):**

Flipped classroom is a pedagogical approach in which direct instruction moves from the group learning space to the individual learning space, and the resulting group space is transformed into a dynamic, interactive learning environment where the educator guides students as they apply concepts and engage creatively in the subject matter.

Roles and Responsibilities

• Teacher

- Provide the introduction to topic.
- Provide the Study Material and appropriate guide lines at every stage.
- Remain available all the time during entire process.
- Prepare assessment methodology.

• Student

- Go through all the material provided on particular topic

- Once topic assigned understand and gain expertise on topic through collaboration.
- Actively participate in class and present the topic.

6. Assessment Tools & Rubrics:

- **Presentation / PPT making (5%)**
- **Communication Skill (10%)**
- **Contents Material (5%)**
- **Understanding (5%)**
- **Q & A (5%)**
- **One Page Report (10 %)**
 - Individual performance would be checked through report writing skill.
- **Quiz(10 %)**
 - Individual performance would be checked through the quiz.

Final Marks Obtained = $0.1(\text{Report Marks} + \text{Communication Skill} + \text{Quiz marks}) + (0.05 * (\text{Presentation marks} + \text{Contents} + \text{Understanding} + \text{Q \& A}))$

7. Evaluation Sheet:

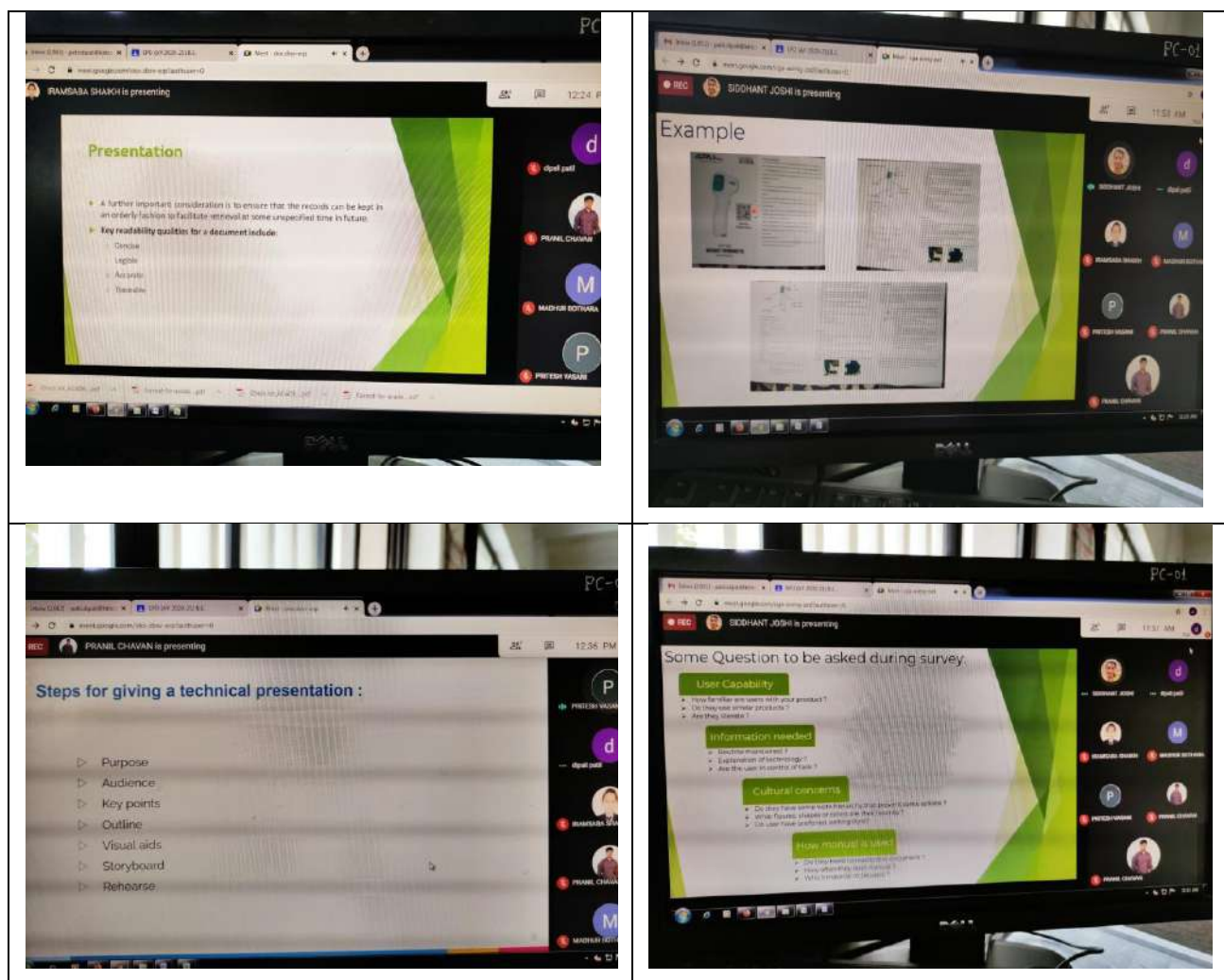
Roll No.	Name of student	Topic	PPT making (5)	Communication skill (10)	Content (5)	Understanding (5)	Q & A (5)	One page report (10)	Quiz (10)	Total= 50
9	Pranil Sunil Chavan	Definition, need and types of documentation	5	8	5	5	4	7	9	43
10	Shivam Sanjay Deore	Records, Accountability, and Liability	4	6	4	3	3	6	9	35
14	Siddhant Sunil Joshi	Audience.	5	9	5	5	4	6	6	40
28	Iramsaba Mushir Shaikh	Preparation, Presentation, and Preservation of documents	4	9	4	5	4	9	9	44
32	Pritish Kantilal vasani	Methods of documentation	4	9	4	4	4	6	9	40
38	Madhur Sanjay Bothara	Visual techniques	3	6	4	3	3	5	10	34
40	Nitin Ravindra Chaudhari	Layout of documentation	2	6	3	2	2	5	10	30
56	Mohit Dattatray Kirve	Bill of material.	2	7	3	4	3	5	7	31
74	Rushikesh Charaskar	Bill of material.	AB	AB	AB	AB	AB	AB	AB	AB

SN	Result Analysis	
1	Total Student	09
	Present Student	08
2	Number of Student Scoring above 60%	08
3	Percentage of student Scoring above 60%	100 %

8. Impact Analysis:

SN	4- Excellent	3- Good	2- Average	1- Poor
Did you find methodology helpful? (PO12)	06	01	00	00
Does the content covered are relevant?(CO6)	05	02	00	00
Are you able to present document from available data? (PO9, PO 10)	YES- 07	No- 00		
Would you like to participate in this methodology again?	YES - 07	No-00		

9. Activity Picture



Recorded Video Links:

https://drive.google.com/file/d/1JIP39bNvMPjzovYWh46CjVVQy0_TlZTG/view?usp=sharing

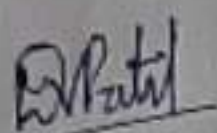
<https://drive.google.com/file/d/1JV-5s11dPglkwrT5ppOsvxQ-lrOVra4l/view?usp=sharing>

<https://drive.google.com/file/d/1bE4PoC1pNaoEqwEMxI6aw6NLyXClKS7/view?usp=sharing>

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

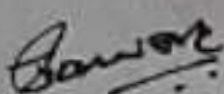
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Ms. D.V. Patil

Subject In charge



Mr. B.J. Pawar

Module Coordinator



Dr. V. M. Birari

HoD