

Engineering Science

Academic Year – 2020-21	Class: FE Div-D
Semester – II	Date : 28,29 & 30/03/2020
CO6:Communication System	PO: 9,10,12

Innovative Teaching Methods

Title of Innovation method/activity: Flip classroom

1. Name of Faculty: Ms. S. M. Dharrao

2. Subject: Basic Electronics Engineering

3. Objective of Method:

I] To study Importance of documentation.

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

4. Topic Covered through Activity:

- 1] Basic Communication System
- 2] Modes of Transmission.
- 3] Communication Media: Wired and Wireless
- 4] Electromagnetic Spectrum.
- 5] Allotment of frequency band for different applications
- 6] Block Diagram of AM and FM Transmitter and receiver

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 through by creating video by using excellent PPT making skills.

6. Assessment Tools & Rubrics:

- **Presentation / PPT making (10)**
- **Communication Skill (10)**
- **Contents Material (10)**
- **Understanding (10)**

7. Evaluation Sheet:

Gro up No	Roll No	Name of Students	Topic	PPT makin g (10)	Communi cation skill (10)	Conten t (10)	Underst anding (10)	Total = 40	%
1	43	Vaishnavi Badgular	Block diagram of Basic Communication System	5	5	5	5	20	50
	49	Snehal borgude		5	5	5	5	20	50
	53	Chaitali Dhattrak		5	5	5	5	20	50
2	38	Nupur duse	Modes of Transmission, Communication Media	7	8	7	7	29	72.5
	32	Sneha Chaudhari		7	6	4	5	22	55
	2	Mayur Ahirrao		7	3	2	3	15	37.5
3	40	Namrata Gangurde	Allotment of frequency band for different applications	5	5	6	7	23	57.5
	52	Pratik Deshmukh		5	5	4	6	20	50
	55	Shantanu Ghumare		5	4	5	5	19	47.5
4	16	Sameeksha Gangurde	Block Diagram FM transmitter	6	7	6	6	25	62.5
	17	Pranjal Gawale		6	7	6	6	25	62.5
	59	Omkar Dhurjad		6	5	6	4	21	52.5
5	13	Mansi Dhokare	Electromagnetic Spectrum	7	6	5	7	25	62.5
	6	Rutuja Benke		7	6	5	6	24	60
	19	Manish Helte		7	5	5	5	22	55
6	51	Nachiket Deore	Block diagram of AM Receiver	7	8	6	8	29	72.5
	21	Swaroop kalunge		7	6	6	6	25	62.5
	42	Shreyas Ahirrao		7	5	6	5	23	57.5

7	1	Poorvita Bakliwal	Block diagram of FM Receiver	9	8	9	8	34	85
	2	Ashwini fegade		9	8	9	8	34	85
	3	Shreya Guraddi		9	8	9	8	34	85
8	34	Nilesh Deore	Cellular concept in mobile communication system	7	4	5	4	20	50
	35	Raj Deshmukh		7	5	5	5	22	55
	37	Siddhesh Divate		7	3	5	3	18	45
9	47	Vinit Bhosale	Block diagram of GSM system	6	4	7	6	23	57.5
	46	Ritesh Bhamare		6	5	7	6	24	60
	58	Rushikesh dhabale		6	6	7	6	25	62.5
10	5	Nachiket Baviskar	AM transmitter & Receiver	6	7	6	6	25	62.5
	29	Tejas Bhosale		6	6	6	5	23	57.5
	56	Harshad Hadpe		6	4	6	6	22	55
	57	Monika Hadhav		6	6	6	5	23	57.5
11	31	Mohit Chaudhari	Electromagnetic concept	6	5	5	6	22	55
	45	Avinash Bhadange		6	4	5	4	19	47.5
	54	Ritesh Gamane		6	4	5	4	19	47.5
12	1	Sumit Agale	Block diagram of AM transmitter	7	8	6	6	27	67.5
	3	Rohit Bairagi		7	7	6	4	24	60
	14	Devidas Dukale		7	6	6	6	25	62.5
13	25	Yugant Bawdhankar	Block Diagram FM transmitter	6	5	5	6	22	55
	26	Sumit Bhamare		6	6	5	7	24	60
	27	Tanvi Bhamare		6	4	5	5	20	50
14	44	Prathamesh Bahare	Electromagnetic Spectrum	8	6	6	8	28	70
	10	Atharva Deshmukh		8	5	6	6	25	62.5
	11	Mrunmaye Deshmukh		8	4	6	5	23	57.5
15		Surbhie Bhamre	Block diagram of AM Receiver	6	8	4	7	25	62.5
		Shlok Bhamare		6	5	4	4	19	47.5
		Aditi Dawange		6	6	4	6	22	55

16	24	Medha Bankar	Block diagram of GSM system	7	7	5	8	27	67.5
	33	Anuja Dashpute		7	6	5	7	25	62.5
	39	Mayuri Gahivade		7	5	5	5	22	55
17	11	Mrunmayee Deshmukh	Examples of wired and Wireless Media	6	8	6	6	26	65
	12	Yukta Dhake		6	7	6	5	24	60
	41	Rohan Aher		6	5	6	3	20	50
18		Sarang Khetre	Needs of Modulation	5	5	5	4	19	47.5
		Swanand Ingale		5	4	5	3	17	42.5
		Abhishek Ahire		5	4	5	3	17	42.5

SN	Result Analysis	
1	Total Student	55
2	Present Student	55
3	Number of Student Scoring above 40%	54
4	Percentage of student Scoring above 40%	98.18%

8. Impact Analysis:

SN	4- High/Excellent	3- Moderate/Average	Slight/Poor
Do you find that methodology is helpful to cover the content of syllabus?	43	12	00
Does this helps you for building a good teamwork?(PO9)	43	12	00
Does the content covered is relevant and helpful for life long learning?(PO12)	38	16	01
Would you like to participate in this methodology again?	41	14	---

9. Activity Picture

Return



50 points

All students

Sort by status

Turned in

<input type="checkbox"/>	02_MAYUR AHIRRAO	___/50
<input type="checkbox"/>	04_POORVITA BAKLIWAL	___/50
<input type="checkbox"/>	05_NACHIKET BAVISKAR	___/50
<input type="checkbox"/>	07_SURBHIE BHAMARE	___/50

02_MAYUR AHIRRAO
zsz-ekya-jfu (2021-07-...
Turned in

04_POORVITA BAKLIWAL
No attachments
Turned in

05_NACHIKET BAVISKAR
VID-20210726-WA006...
Turned in

07_SURBHIE BHAMARE
No attachments
Turned in

09_Aditi DAWANGE
VID-20210731-WA003...
Turned in

09_MOHIT CHAUDHARI
2 attachments
Turned in

10_ATHARVA DESHMUKH
No attachments
Turned in

10_SNEHA CHAUDHARI
32,38,02 GRP VIDEO O...
Turned in

11_ANUJA DASAPATE

12_YUKTA DHAKE

14_DEVIDAS DIKALE

15_ASHWINI SHARDE

Return



50 points



All students

Sort by status

Turned in

<input type="checkbox"/>	02_MAYUR AHIRRAO	___/50
<input type="checkbox"/>	04_POORVITA BAKLIWAL	___/50
<input type="checkbox"/>	05_NACHIKET BAVISKAR	___/50
<input type="checkbox"/>	07_SURBHIE BHAMARE	___/50

27_DTanvibhmare B...
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VID-20210726-WA005...
Turned in

2 attachments
Turned in

fzp-akh-agu (2021-0...
Turned in

42_SHREYAS AHIRRAO
tdq-xtro-xst (2021-07-...
Turned in

43_VAISHNAVI BADGUJAR
2 attachments
Turned in

44_Prathamesh Bahare
Copy of vite-rye-aac (...
Turned in

45 AVINASH BHADANGE
2021-07-23-14-37-12...
Turned in

46_RITESH BHAMARE
tsq-kozw-zap (2021-0...
Turned in

49_SNEHAL BORGUDE
tsq-kozw-zap (2021-07-29 at 07:50 GMT-7)

52_PRATIK DESHMUKH
No attachments
Turned in

54_RITESH GAMANE
2 attachments
Turned in

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FE 2020-21

Instructions Student work

Return 50 points

All students

Sort by status

Turned in

<input type="checkbox"/>	02_MAYUR AHIRRAO	___/50
<input type="checkbox"/>	04_POORVITA BAKLIWAL	___/50
<input type="checkbox"/>	05_NACHIKET BAVISKAR	___/50
<input type="checkbox"/>	07_SURBHIE BHAMARE	___/50

27_DTanvibhmare B... Turned in

VID-20210726-WA005... Turned in

2 attachments Turned in

fzp-axbh-agu (2021-0... Turned in

42_SHREYAS AHIRRAO

tdq-xtro-xsi (2021-07... Turned in

43_VAISHNAVI BADGUJAR

2 attachments Turned in

44_Prathamesh Bahare

Copy of vte-rye-aac (... Turned in

45 AVINASH BHADANGE

2021-07-23-14-37-12_... Turned in

46_RITESH BHAMARE

tsq-kozw-zap (2021-0... Turned in

49_SNEHAL BORGUDE

No attachments Turned in

tsq-kozw-zap (2021-07-29 at 07:50 GMT-7)

No attachments Turned in

S2_PRATIK DESHMUKH

No attachments Turned in

54_RITESH GAMANE

2 attachments Turned in

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Expert talk Sem-II.pdf

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FE 2020-21

Instructions Student work

Return 50 points

All students

Sort by status

Turned in

<input type="checkbox"/>	02_MAYUR AHIRRAO	___/50
<input type="checkbox"/>	04_POORVITA BAKLIWAL	___/50
<input type="checkbox"/>	05_NACHIKET BAVISKAR	___/50
<input type="checkbox"/>	07_SURBHIE BHAMARE	___/50

6RUTIKA BENKE

No attachments Turned in

CHAITALI DHATRAK

No attachments Turned in

D_59_OMKAR DHURJAD

VID-20210726-WA006... Turned in

HARSHAD HADPE

Video from HARSHAD... Turned in

NACHIKET DEORE

VID-20210724-WA008... Turned in

SIDDHESH DIVATE

BXE Presentation.mp4 Turned in

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Expert talk Sem-II.pdf

16:21 23-08-2021

Subject Teacher

IQAC Member

NBA Member

Head of Department