

Mechanical Engineering Department

Academic Year – 2021-22	Class: TE
Semester – I	Date : 27/11/2021
CO: CO1, CO2	PO: PO5, PO9, PO10, PO12

Innovative Teaching Methods

Title of Innovation method/activity: Innovative Teaching Learning Method –Video Blog Activity

1. Name of Faculty: Mr. Patil Manoj Subhash

2. Subject: Design of Machine Elements

3. Objective of Method:

- To work in a group
- To design cotter joint/ knuckle joint/ bushed pin type flexible coupling
- To prepared a 3 D model of cotter joint/ knuckle joint/ bushed pin type flexible coupling
- To prepare videos of the modeling showing how the assembly is prepared along with dismantling.
- To communicate effectively the prepared content

4. **Topic Covered through Activity:**

Design, assembly and detail drawing, 3D modeling

5. **Description of method with Benefits:**

Students first will learn to design the mechanical component such as cotter joint/ knuckle joint/ bushed pin type flexible coupling using the basics of design. After completing the design, assembly and detailed drawings of various components will be drawn. After this using any modeling software students have to prepare a 3D model of the component they have design. This will involve modeling of parts and preparation of assembly. Exploded view also has to be prepared. Then a video has to be prepared showing assembly from different angles along with exploded view.

Benefits of method:

- It improves the thinking ability of the students
- Students become familiar with new technologies in the field of design engineering.
- It improves the communication skills of the students.
- Students are exposed to new environment of learning

The method:

Students form a group and prepare the model as discussed. Prepare the video and upload it on the google classroom. It is a group activity.

Roles and Responsibilities

- **Teacher**
 - To teach the students how to design cotter joint/ knuckle joint/ bushed pin type flexible coupling
 - Revise the concepts of modeling
 - Preparing rubrics for the assesment and communicate them with the students.
- **Student**
 - Form a group
 - Design the components assigned (cotter joint/ knuckle joint/ bushed pin type flexible coupling)
 - Prepare a project report and list the dimensions required for modelling
 - Prepare a 3D model using any relevant software
 - Prepare the videos
 - Upload the videos on the google classroom for assessment

Assessment Tools

Rubrics are prepared as follows

Sr. No.	Rubrics	Marks
1	Relevance of Topic	05
2	Quality of Content	05
3	Presentation Skills	05
4	Quality of Video	05
5	Team Work	05
Total		25

6. Evaluation sheet of attendee

Roll No	Name of Student	Rubrics					Total (25)
		Relevance of Topic (5)	Quality of Content (5)	Presentation Skills (5)	Quality of Video (5)	Team Work (5)	
1	AHER HARSH DATTATRAY						0
2	AHIRRAO GANESH UMESH	4	4	4	4	4	20
3	AHIRRAO KOMAL MAHENDRA	4	3	4	4	4	19
4	AMBRE KETAN BHAUSAHEB						0
5	ATRE MRUNALI SONAJI	4	3	4	5	3	19
6	BACHHAV KUNAL DEVIDAS	4	4	4	5	5	22
8	BACHHAV SIDDHANT SUNIL	4	4	4	4	5	21
9	BAGUL BHARAT RAJU	4	4	4	5	4	21
10	BAHIRAM SHUBHAM MOTILAL						0
11	BAVISKAR TEJAS SANTOSH	3	4	4	3	4	18
12	BHANDARE RUSHIKESH KAILAS						0
13	BHANDARE SURAJ SANTOSH						0
14	BODKE ANIKET PRAKASH	3	4	4	3	4	18
15	BODKE SUSHANT RAJENDRA	3	4	4	3	4	18
16	BOKIL HARSHAL HEMANT						0
17	BORADE SWAPNIL TUKARAM						0
18	BORASTE SAMARTH BHAGWAT	3	4	4	3	4	18
19	BORGUDE PRATIKSHA ASHOK	5	4	5	4	5	23
20	BUDHAWANT VISHAL ASHOK						0
21	BUNDEKHANDI NISHANT PRAVIN	3	4	4	3	4	18
22	CHAUDHARI BHUSHAN RAJENDRA	3	4	4	3	4	18
23	CHAUDHARI UDAY YUVRAJ	3	4	4	3	4	18
24	CHAURE MINESH MAHESH						0
25	CHAVAN RUSHIKESH MANOJ	4	4	4	3	4	19
26	DERLE ANKUSH SANTOSH	3	4	4	3	4	18
27	DESHMUKH ATHARVA ABHAY	3	4	5	3	4	19
28	Dhongade Vishal Sunil						0
29	DHATRAK JAYESH SANJAY	4	4	4	3	4	19
30	DHONDGE GAURAV PUSHPARAO	3	4	3	3	4	17
31	DUGAJE ROHIT RAMESH	3	4	5	3	3	18
32	GADAKH SAKSHI VISHWAS						0
33	GADAKH VISHWAJEET RAJENDRA						0
34	GAIKWAD ONKAR HEMANT	4	4	4	3	4	19
35	GHARATE ROHIT HIRALAL						0
36	GHAYAL ANIKET ARUN						0
37	GHOLAP SHUBHAM VIJAY						0
38	GHOTEKAR PRATIK VITHOBA						0

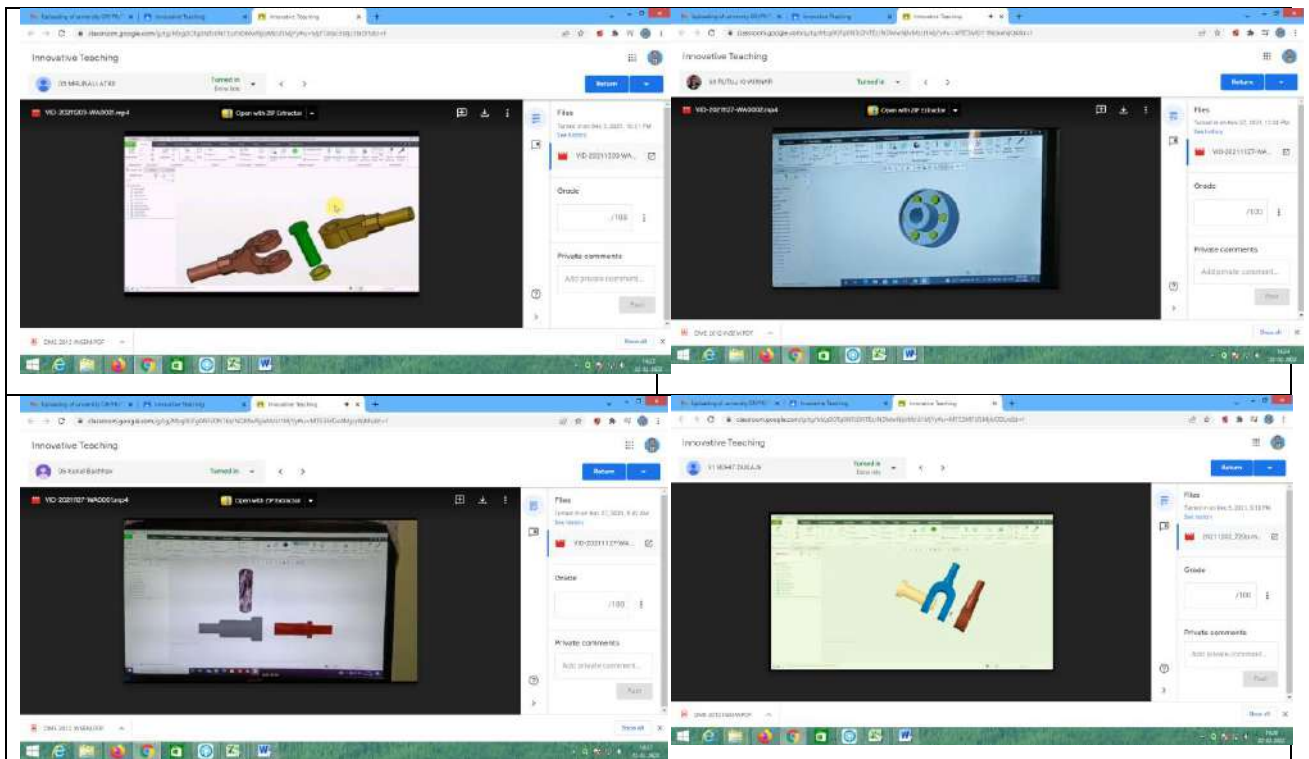
39	GIRI AJINKYA DEVIDAS	4	4	4	4	4	20
40	GONDE DEVIKA DIPAKRAO						0
41	GUJARATHI ANAND ANIL	4	4	4	5	4	21
42	GUNJAL SHIVRAJ GAJENDRA						0
43	HIRE ANANT SUNIL						0
44	HIRE PRASAD DIPAK						0
45	HOLKAR SHRADDHA SUDHIR						0
46	JADHAV GIRISH PRAVIN	4	4	4	5	4	21
47	JADHAV MUKTA MAHENDRA						0
48	JADHAV PRATHAMESH DINESH	5	4	4	5	4	22
49	JADHAV SHUBHAM PANDIT						0
50	JADHAV UMESH SHRIRAM	4	5	4	5	4	22
51	KADAM AMEY APPASAHEB	5	5	4	5	4	23
52	KAMBLE MANAV SATISH						0
53	KAPADNIS NEHA RAJENDRA	3	4	4	3	4	18
54	KAPURE YASH DEEPAK	4	4	4	6	4	22
55	KARDILE YASH ASHOK	4	3	4	3	4	18
56	KELKAR LOKESH DNYANESHWAR	5	4	4	4	4	21
57	KHAIRE PRANALI KESHAV	5	4	4	3	4	20
58	KHAIRNAR AMOL KEVAL						0
59	KHAIRNAR ANIKET SANJAY	3	3	4	3	4	17
60	KHAIRNAR RUTUJ SANJAY	3	4	5	3	4	19
61	KHAIRNAR SUSHAN NARENDRA	3	4	4	3	4	18
62	KHAIRNAR YASHODEEP ARUN	5	4	4	3	4	20
63	KHODE PRATHMESH SOMNATH						0
64	KHOLE VISHAL RAMNATH	3	4	4	3	4	18
65	KIRTIWAR VAIBHAV ASHOK	4	4	4	4	4	20
66	KOTHAWADE GAURAV MURLIDHAR	3	4	4	3	4	18
67	KOTHAWADE PUSHKAR RAJENDRA						0
68	KOTKAR ABHISHEK SHARAD						0
69	KUSHARE VAIBHAV DNYANESHWAR	5	4	4	4	4	21
70	LABHADE YUVRAJ RAMCHANDRA	4	4	5	5	4	22
71	LAHANE ANIKET KAILAS	4	3	4	4	4	19
72	LAWAND ANIKET SUBHASH	3	4	4	3	4	18
73	MAHALE JAY RAJENDRA	4	4	4	4	4	20
74	MALI OMKAR MANOJ						0
75	MONDHE PURUSHOTTAM BALU	3	4	3	3	4	17
76	PAGARE SHAILESH SAHEBRAO	3	4	4	3	4	18
77	PANGRE YASHRAJ SUNIL						0
78	PATALE ROHIT BHAUSAHEB						0
79	PATIL GAYATRI CHUNILAL	4	4	5	5	4	22
80	PATIL ISHAN MILIND						0

81	PAWAR RUSHIKESH RAM						0
82	SHELAR ADITYA SANJAY	4	4	5	5	4	22
83	SHETE KRUSHNA MADHUKAR	4	4	4	5	3	20
84	SHILWAN ROHIT KISHOR						0
85	SHINDE MONALI RAMDAS	4	4	4	4	4	20
86	SONASKAR SARTHAK SANTOSH						0
87	SONAWANE PIYUSH RAJENDRA	4	4	4	3	4	19
88	TUPE ANIKET BALASAHEB	4	4	4	4	4	20
89	WADKAR NAGESH SHIVAJI	3	4	4	3	4	18

7. Impact Analysis

SN	3- High/Excellent	2 - Moderate /Average	1- Slight/Poor
1. Did you understand and cover the objective of the activity?	23	02	00
2. Do you find that methodology is helpful to cover the content beyond syllabus?	21	04	00
3. Does this helps you for building a good team?	23	02	00
4. Does the content covered are relevant and will be helpful as a life-long learning?	22	03	00
5. Can you want to conduct such activity again?	22	03	00

8. Activity Picture



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