

Mechanical Engineering Department

Academic Year – 2021-22	Class: BE
Semester – I	Date : 20/12/2021 TO 08/01/2022
CO: CO4	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. Kulkarni Darshan Diliprao

2. Subject: CAD/CAM & Automations

3. Objective of Method:

- To work an individual
- To prepared a 3 D model of any milling/lathe component using PTC Creo Software.
- To prepare videos of the modeling showing how the part (Milling/Lathe) is prepared along with Manufacturing and make tap file (G-code, M-code).
- To communicate effectively the prepared content

4. **Topic Covered through Activity:**

Part modeling, Manufacturing, Make tap file (G-code, M-code).

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

Students will first learn how to model mechanical components with the help of Cero software. After completing part modeling they go for manufacturing tools and import the part created in part modeling. This will include modeling and manufacturing of parts. Students' will then need to create a video showing how to create a finish product and how to create G-Code and M-Code.

Benefits of method:

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

The method:

Students work independently and create models as discussed. Create a video and upload it to Google Classroom.

Roles and Responsibilities

- **Teacher**
 - To teach Creo Manufacturing tool.
 - Revise the concepts of modeling
 - Preparing rubrics for the assessment and communicate them with the students.
- **Student**
 - Work independently
 - Prepare a 3D model using any Creo 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	Oral Presentation	3
2	Content	3
3	Concept	3
4	Individual & Team Work	3
Total		Converted from 12 to 10

6. Evaluation sheet of attendee

Innovative teaching method - Making Video block activity

Roll No.	Name of students	Oral Presentation	Content	Concept	Individual & Team Work	Total (12)	Marks/Points (10)
75	MOGAL MADHURA AJAY	2	2	3	2	9	7.5
76	MORE BHUSHAN NAMDEV	2	3	2	3	10	8.33
77	MORE JAGRUTI SHANTILAL	2	3	2	3	10	8.33
78	MORE PRATHAMESH BALIDAS	2	2	2	2	8	6.67
79	MUNDANE HARSHAL SUKHDEV	2	2	2	2	8	6.67
80	NAIR ABHISHEK AJITHKUMAR	2	3	2	3	10	8.33
81	NAKIL SANKET DATTATRAY	3	3	2	3	11	9.17
82	NIKAM VEDANT ANANDA	2	3	2	2	9	7.5
83	PACHPUTE ATHARVA RUPESH	2	2	2	3	9	7.5
84	PAGAR AJINKYA DILIP	2	2	2	3	9	7.5

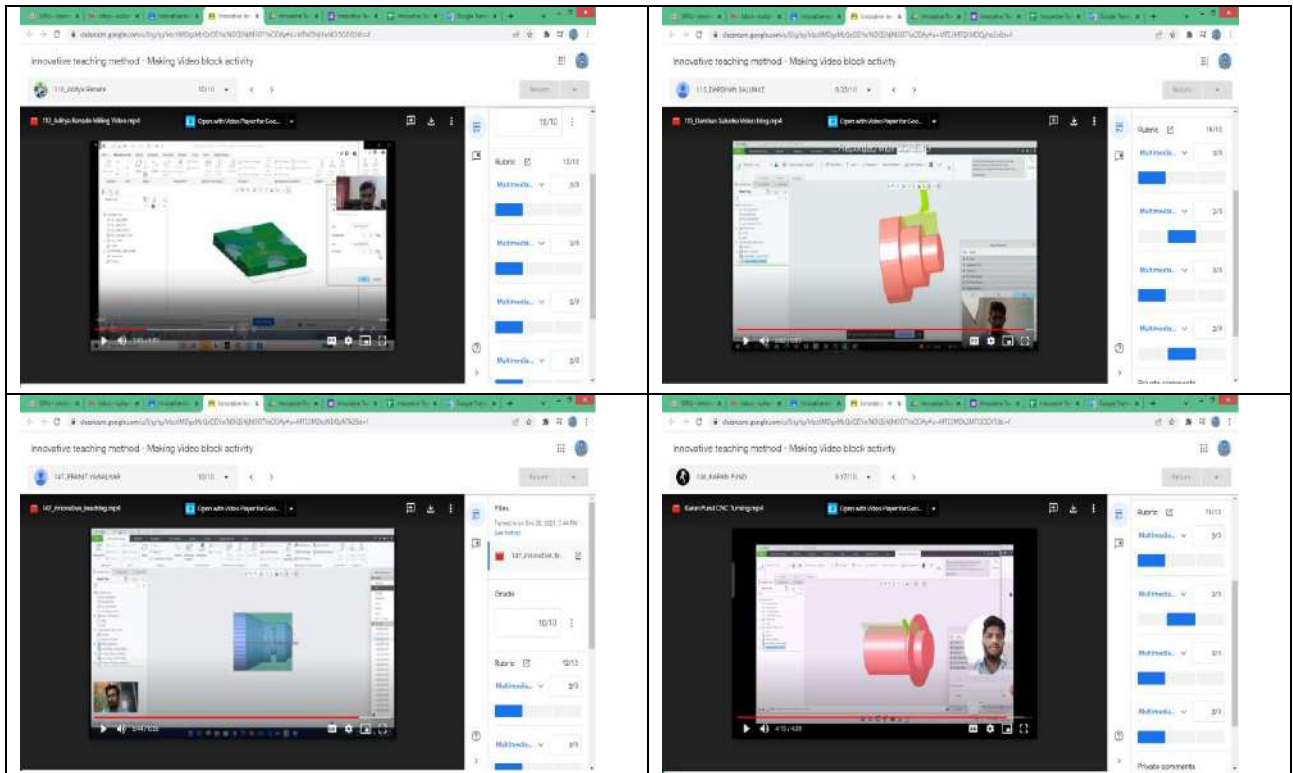
85	PAGAR ROHIT MACHHINDRA	AB	AB	AB	AB	0	AB
86	PAGARE TANMAY SUNIL	AB	AB	AB	AB	0	AB
87	PARKHAL PIYUSH YOGRAJ	1	1	1	1	4	3.33
88	PATEL JINAY MAHESH	2	3	2	2	9	7.5
89	PATIL GAURAV RAVINDRA	AB	AB	AB	AB	0	AB
90	PATIL KAMESH JITENDRA	1	1	1	1	4	3.33
91	PATIL MAYUR VASUDEO	3	3	2	3	11	9.17
92	PATIL PRANJAL SUNIL	AB	AB	AB	AB	0	AB
93	PATIL RAJVARDHAN SUNIL	2	3	2	3	10	8.33
94	PATIL ROSHAN SAHEBRAO	2	2	2	2	8	6.67
95	PATIL SAGAR NANDRAJ	2	3	2	3	10	8.33
96	PATIL SAMEER SANJAY	2	2	2	2	8	6.67
97	PATIL SAMRUDDHI JITENDRA	2	2	2	2	8	6.67
98	PATIL SAURABH CHHOTU	3	2	3	3	11	9.17
99	PATIL SHUBHAM KIRAN	3	2	3	3	11	9.17
100	PATIL SOHAM ARUN	1	1	1	1	4	3.33
101	PATIL VAIBHAVI SURESH	2	2	2	2	8	6.67
102	PATIL VISHESH BHAUSAHEB	3	2	2	3	10	8.33
103	PAWAR TANUJA PRABHAKAR	AB	AB	AB	AB	0	AB
104	PAWAR VAIBHAV SANJAY	3	2	2	3	10	8.33
105	PAWAR YOGESH KAUTIK	1	1	1	1	4	3.33
106	PUND KARAN KAILAS	3	2	3	3	11	9.17
107	RAIJADE GAJANAN BALASAHEB	1	2	2	2	7	5.83
108	RAJGURU SWAPNIL BHASKAR	2	2	2	2	8	6.67
109	RAJPUT DEVRAJ RANJITSING	AB	AB	AB	AB	0	AB
110	RANADE ADITYA SHIVAJI	3	3	3	3	12	10
111	RANE KUSHAL JITENDRA	AB	AB	AB	AB	0	AB
112	RAVTALE NILESH PRALHAD	2	2	2	2	8	6.67
113	REDDY GARGI RAGHUNATH	2	2	3	2	9	7.5
114	ROTE PRATIK RAOSAHEB	3	3	2	2	10	8.33
115	SALUNKE DARSHAN PRAMOD	3	2	3	2	10	8.33
116	SALUNKE YASHWANT DEVIDAS	2	2	2	3	9	7.5
117	SANAP GAURAV SHARAD	3	2	3	3	11	9.17
118	SANGALE VIVEK RAMDAS	3	2	3	2	10	8.33
119	SAVALE AVINASH RAGHUNATH	2	2	2	3	9	7.5
120	SAWANT RISHIKESH PRAKASH	2	2	2	2	8	6.67
121	SHELKE ABHISHEK SANJAY	AB	AB	AB	AB	0	AB
122	SHIMPI TEJAS CHANDRAKANT	1	1	1	1	4	3.33
123	SHINDE HARSH SUNIL	2	2	2	3	9	7.5
124	SHINDE KAJAL SHARAD	2	2	2	2	8	6.67
125	SHINDE KARAN SANDEEP	2	2	2	2	8	6.67
126	SHINDE ROHIT RAJU	2	2	2	2	8	6.67
127	SHINDE SUDARSHAN VIJAY	2	2	2	2	8	6.67
128	SHINDE UJWALA MAHESH	2	3	2	3	10	8.33
129	SHINDE YUGANDHAR RAVINDRA	2	2	2	2	8	6.67

130	SHINGOTE PRAGATI RAMNATH	2	3	3	3	11	9.17
131	SHIRODE ROHIT ASHOK	2	2	2	3	9	7.5
132	SHIRSATH PRIYANKA DHONDIRAM	2	2	2	3	9	7.5
133	SONAWANE TEJASWINI SANJAY	2	2	2	3	9	7.5
134	TAKATE DHIRAJ MANIK	2	2	2	3	9	7.5
135	TEJALE ANUJA SANJAY	2	2	2	2	8	6.67
136	THAKARE ABHISHEK RAMESH	2	2	2	2	8	6.67
137	THAKARE ANJALI NANDAKUMAR	3	2	2	2	9	7.5
138	THAKUR ADARSH SANJAY	3	2	3	2	10	8.33
139	THAVIL AVINASH RAMDAS	2	2	2	2	8	6.67
140	THETE VINAY RAJENDRA	2	2	3	2	9	7.5
141	THOK NIKITA KAILAS	3	2	3	3	11	9.17
142	TONGARE OMKAR KAILAS	2	2	2	2	8	6.67
143	VAIDYA SAMYAK MANDAR	2	3	3	3	11	9.17
144	VASAIT KHUSHAL RAMESH	2	2	2	2	8	6.67
145	WAGH OMKAR SHARAD	2	2	2	3	9	7.5
146	WARUNGSE SAURABH RAJENDRA	1	1	1	1	4	3.33
147	YAWALKAR PRANIT MORESHWAR	3	3	3	3	12	10
148	ZOPE AKSHAY SANJAY	2	2	2	2	8	6.67

7. Impact Analysis

SN	1- High/Excellent	2 - Moderate /Average	3- Slight/Poor
Do you find Methodology Helpful?	36	13	7
Does this helps for building a good team	37	13	6
Were you able to apply the concept of Creo Manufacturing while implementing project?	36	13	7
Does the content covered are relevant	35	15	6
Would You Like To Participate in This Methodology again??	48 (YES)	1 (NO)	Maybe (7)

8. Activity Picture



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

kulkarni.darshan@kbtcoe.org, hod.mechl@kbtcoe.org

Prof. D. D. Kulkarni
Subject In charge

Dr. S. P. Mogal
Module Coordinator

Dr. A.B. Kakade
NBA Coordinator

Dr. V.C. Shewale
HoD