

Mechanical Engineering Department

Academic Year – 2020-21	Class: TE
Semester – II	Date : 05/6/2021
CO: CO1, CO2, CO3,CO4	PO: PO1, PO2,PO12

Innovative Teaching Methods

Title of Innovation method/activity: Digital Poster Making

1. Name of Faculty: Mr. Shete Pankaj C.

2. Subject: Manufacturing Process - II

3. Objective of Method:

- I. To make students familiar with manufacturing processes.
- II. To make students think and create their opinion about these processes.
- III. To provide a platform to Present their opinion regarding these processes.

4. **Topic Covered through Activity:** Metal cutting, Machine tool and their application, Grinding and finishing operations, Advanced machining Processes.

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

In this activity, students need to select the topics from the Syllabus mentioned. The students will be given sufficient time to gather information about the topic they selected. Students are informed to add the content out of the syllabus if any as per the requirement of the poster. They should develop digital posters from the information gathered using innovative ideas about selected topics. Subject teachers will analyze their performance on the criteria mentioned in rubrics.

Benefits of method:

- It will make students to think and study in depth about the selected topic .
- It will provide a platform to express their ideas.
- Design ability of the students will improve

Roles and Responsibilities

• Teacher

- Provide the task as per the basics studied by the student.
- Assign topics to students as per their choice.
- Explain to the students how to be involved in this activity.

- Judge performance of individual student as per criteria mentioned below.

- **Student**

- Go through all the material provided on various Topics
- Provide choice of topics to the subject teacher.
- Once a topic is assigned, understand and prepare a poster.
- Participate actively in digital poster making and try to cover all aspects of the topic they have selected.
- Try to cover and implement all ideas in a poster.

6. Assessment tools with rubrics:

Assessment will be done by subject teacher on the basis of following rubrics

Sr. No.	Portfolio	Marks
1	Content of Digital Poster	4 Marks
2	Design Skill of the students	4 Marks
3	Innovativeness of the student	2 Marks

7. Evaluation sheet of attendee

Roll No	Name of Student	Content (4)	Design Skill (4)	Innovativeness (2)	Total (10)
81	MOGAL MADHURA AJAY	3	3	1	7
82	MORE BHUSHAN NAMDEV	3	3	2	8
83	MORE JAGRUTI SHANTILAL	3	3	2	8
84	MORE PRATHAMESH BALIDAS	3	2	2	7
85	NAIR ABHISHEK AJITHKUMAR	3	3	2	8
86	NAKIL SANKET DATTATRAY	3	3	2	8
87	NIKAM VEDANT ANANDA	3	3	2	8
88	PACHPUTE ATHARVA RUPESH	3	2	2	7
89	PAGAR AJINKYA DILIP	4	3	2	9
90	PAGAR ROHIT MACHHINDRA				
91	PARKHAL PIYUSH YOGRAJ				
92	PATEL JINAY MAHESH				
93	PATIL GAURAV RAVINDRA	3	2	1	6
94	PATIL KAMESH JITENDRA	3	2	1	6
95	PATIL MAYUR VASUDEO	3	2	1	6
96	PATIL RAJVARDHAN SUNIL	3	2	2	7
97	PATIL ROSHAN SAHEBRAO	3	2	1	6
98	PATIL SAGAR NANDRAJ	3	2	1	9
99	PATIL SAURABH CHHOTU	3	3	1	7
100	PATIL SHUBHAM KIRAN	3	3	2	8
101	PATIL SOHAM ARUN	3	3	2	8

102	PATIL VAIBHAVI SURESH	3	3	1	7
103	PATIL VISHESH BHAUSAHEB	3	3	1	7
104	PAWAR TANUJA PRABHAKAR				
105	PAWAR VAIBHAV SANJAY	3	2	1	6
106	PAWAR YOGESH KAUTIK	3	2	1	6
107	PUND KARAN KAILAS	3	3	1	7
108	RAJGURU SWAPNIL BHASKAR				
109	RAJPUT DEVRAJ RANJITSING				
110	RANADE ADITYA SHIVAJI	3	3	2	8
111	RAVTALE NILESH PRALHAD	3	2	1	6
112	ROTE PRATIK RAOSAHEB	3	3	2	8
113	SALUNKE DARSHAN PRAMOD	3	2	1	6
114	SALUNKE YASHWANT DEVIDAS				
115	SANAP GAURAV SHARAD	3	3	1	7
116	SANGALE VIVEK RAMDAS	3	3	1	7
117	SAVALE AVINASH RAGHUNATH	2	3	1	6
118	SAWANT RISHIKESH PRAKASH	3	3	1	7
119	SHELKE ABHISHEK SANJAY				
120	SHINDE HARSH SUNIL	2	3	1	6
121	SHINDE KAJAL SHARAD				
122	SHINDE KARAN SANDEEP	3	3	1	7
123	SHINDE ROHIT RAJU	3	3	2	8
124	SHINDE SUDARSHAN VIJAY	3	2	1	6
125	SHINDE UJWALA MAHESH	2	3	1	6
126	SHINGOTE PRAGATI RAMNATH	3	3	1	7
127	SHIRODE ROHIT ASHOK	3	2	2	7
128	SHIRSATH PRIYANKA DHONDIRAM	3	2	2	7
129	SONAWANE TEJASWINI SANJAY	3	2	1	6
130	TEJALE ANUJA SANJAY	3	3	1	7
131	THAKARE ABHISHEK RAMESH	3	2	1	6
132	THAKARE ANJALI NANDAKUMAR	3	3	1	7
133	THAKUR ADARSH SANJAY				
134	THAVIL AVINASH RAMDAS				
135	THETE VINAY RAJENDRA	2	2	1	7
136	THOK NIKITA KAILAS				
137	TONGARE OMKAR KAILAS				
138	VAIDYA SAMYAK MANDAR	3	4	1	8
139	VASAIT KHUSHAL RAMESH				
140	WAGH OMKAR SHARAD	3	2	1	6
141	WARUNGSE SAURABH RAJENDRA	3	3	1	7
142	YAWALKAR PRANIT MORESHWAR	3	3	2	8
143	ZOPE AKSHAY SANJAY				
144	MUNDANE HARSHAL SUKHDEV	3	3	2	8
145	PATIL PRANJAL SUNIL				
146	PATIL SAMEER SANJAY	3	2	1	6
147	PATIL SAMRUDDHI JITENDRA	3	3	1	7
148	RAIJADE GAJANAN BALASAHEB	3	3	1	7
149	REDDY GARGI RAGHUNATH	3	3	1	7
150	SHIMPI TEJAS CHANDRAKANT	3	4	1	8
151	SHINDE YUGANDHAR RAVINDRA	3	4	1	8
152	TAKATE DHIRAJ MANIK	3	3	1	7
153	PAGARE TANMAY SUNIL	3	3	1	7

8. Impact analysis


9.

SN	3-High/Excellent	2-Moderate /Average	1-Slight/Poor
1. Did you understand and cover the objective of the activity?	80%	20%	--
2. Do you find that methodology is helpful to cover the content beyond syllabus?	73%	27%	--
3. Does this helps you for building a good team?	77%	23%	--
4. Does the content covered are relevant and will be helpful as a Life-long learning?	72%	28%	--
5. Can you want to conduct such activity again?	77%	23%	--


10. Activity Picture

PORTABLE DRILLING MACHINE

Prepared by: Ajinkya Dilip Pagar
 Class: TE(B) Roll No.:89



It is very small, compact and self contained unit carrying a small electric motor inside it. It is very commonly used for drilling holes in such components that cannot be transported to the shop due to their size or weight or where lack of space does not permit their transportation to the bigger type of drilling machine. In such cases, the operation is performed on the site by means of the portable electric drill.




ADVANTAGES OF PORTABLE DRILLING MACHINE:

- It is a portable device.
- These drill machines have variable speeds.
- They can be operated in the reverse direction also.
- Can be used to put in and take out screws.

DISADVANTAGES:

- Power limited to battery type and size.
- Limited to maximum 10 mm bits.

FUNCTION DESCRIPTION



Multi function:
Screwdriver, drill, hammer

Depth gauge:
For precise drilling depth

Metal key chuck:
13mm, eminent holding ability

Close-fitting gears:
For longer working life

Rotation selector:
Forward: drill in
Reverse: drill out

4 ball bearings:
Improving drilling performance

Lock-on button:
Press for continuous work

Rubber-coated handle:
Soft touch
Hold comfortably

Anti-dust switch:
Electronic speed adjustment, for different work demands

SAFETY TIPS WHILE USAGE OF PORTABLE DRILLING MACHINE:

- Never carry the machine by its cords.
- Use the tools that are properly grounded.
- Avoid working with the machine in wet conditions
- Conduct proper maintenance of the machine.
- Inspect all the tools, including power cord and other accessories before using.

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