



**MARATHA VIDYA PRASARAK SAMAJ'S**  
**Karmaveer Adv. Baburao Ganpatrao Thakare**  
**College of Engineering, Nashik**

Permanently Affiliated to Savitribai Phule Pune University Vide Letter No. : CA/1542 & Approved by AICTE New Delhi - Vide Letter No. : 740-89-32 (E) ET/98 AISHE Code - C-41622



## **Mechanical Engineering Department**

Academic Year: 2023-24

Class: Final Year

Semester: I

Course Outcome: CO1, CO2, CO3, CO4, CO5, CO6

Programme Outcome: PO1, PO5, PO10, PO12

### **Innovative Teaching Method**

**Title of Innovative teaching method:** Video blog activity

1. **Name of faculty:** Mr. V. V. Shinde
2. **Subject:** Industrial Engineering
3. **Objective of method:**
  - I. To make students familiar with concept of Industry 4.0
  - II. To make students think and create their opinion about the industry 4.0
  - III. To provide platform to improve students presentation skills and communication skills
4. **Topic covered through activity:** recent trends in industrial Engg, concept of industry 4.0, internet of things, AI, Big data
5. **Description of method with benefits**

In this activity teacher assigned specific topic to all students. Teacher assigned Industry 4.0 topic to all students. After that students need to think about detail aspects of an Industry 4.0. After that student will get sufficient time to gather information about details of Industry 4.0. After that students need to prepare power point presentation as per their skills and prepare recording of presentation and upload it on google classroom. Teacher will analyse their performance on the criteria mentions in rubrics.
- Benefits:
  - I. It will make students to think and study in depth about technologies related to Industry 4.0
  - II. It will provide platform to improve their presentation skills, communication skills and students will learn about how to use Modern IT tools required for this activity
6. **Roles and responsibilities:**

Teacher

  - I. Assign particular topic to the students and guide about the activity
  - II. Observe and check power point presentation prepared by each student
  - III. Observe presentation of students during presentation and judge performance of individual student as per criteria mentioned below (Rubrics)

Student

- I. Detail study of topic which is assigned by teacher
- II. Prepare power point presentation on same topic by taking help of various reference books, research papers etc

**7. Assessment tools with rubrics:**

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

<b>A</b>	<b>B</b>	<b>C</b>
Understanding	Presentation	Questions & Answers
02	05	03

**8. Evaluation sheet of Attendee**

<b>Sr. No</b>	<b>Name of Student</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>Marks(Out of 10)</b>
1	Adhe Chinmay	2	5	3	10
2	Adke Roahn	2	5	3	10
3	Aher Mitali	2	5	3	10
4	Ahhirao Shreyas	2	3	2	8
5	Alai Vidhan	2	5	2	9
6	Atkari Kaustubh	2	5	3	10
7	Patil Pratik	2	3	2	7
8	Chaudhari Augum	2	3	2	8
9	Badgujar Vaishnavi	2	5	3	10
10	Rayate Gaurav	2	3	3	8
11	Kokate Rushikesh	2	5	2	9
12	Sanap Bhagyashree	2	3	2	8
13	Shardul Jiten	2	5	3	10
14	Shelar Sumit	2	3	2	8
15	Ratnakar Devesh	2	5	2	9
16	Sangale Viraj	2	5	2	9
17	Avhad Prasad	2	5	3	10
18	Shinde Gulab	2	5	2	9
19	Sonawane Durgesh	2	4	3	9


20	Sonawane Renuka	2	5	3	10
21	Shelke atharva	2	5	2	9
22	Thakur Sahil	2	3	2	7
23	Bahare Prathmesh	2	5	3	10
24	Vyas Atharva	2	3	1	6
25	Suryavanshi Nikit	2	5	2	9
26	Bagul Aditya	2	5	3	10
27	Vaidya Ishwar	2	5	2	9
28	Bhamare Ritesh	2	4	2	8
29	Bhosale Vinit	2	5	2	9
30	Borgude Snehal	2	5	2	9
31	Deore Mohit	2	5	3	10
32	Dhatrak Chaitali	2	5	3	10
33	Gangurde Yash	2	5	3	10
34	Gupta Vishal	2	5	2	9
35	Hadpe Harshal	2	3	2	7
36	Ghumare Shantanu	2	4	2	8
37	Ahire Gaurav	2	5	2	9
38	Hode Sushant	2	5	3	10
39	Hire Aniket	2	5	2	9
40	Jadhav Shreenivas	2	5	2	9
41	Joshi Aditya	2	5	2	9
42	Junghare Yogita	2	5	3	10
43	Kasture Sarthak	2	5	3	10
44	Kulthe Prathmesh	2	5	3	10
45	Kshirsagar Umesh	2	5	3	10
46	Mahajan Aniket	2	5	3	10
47	Mahajan Rohit	2	5	2	9
48	Mahale Yash	2	3	2	7
49	Kuyate aditya	2	5	2	9
50	Maniyar Saliq	2	5	2	9
51	Manekar Tushar	2	5	2	9

52	Nichit Abhishek	2	3	2	7
53	Mansuri MOHD.	2	5	2	9
54	More Shubham	2	5	2	9
55	Nikam Sahil	2	2	2	6
56	Pathan Aman	2	5	3	10
57	Patil Gaurav	2	5	3	10
58	Patil Kunal	2	5	2	9
59	Patil Dikshant	2	5	3	10
60	Pagar Aditya	2	3	2	7
61	Gadhawe Akash	2	5	3	10
62	Deore Nachiket	2	5	2	9
63	Ghughe Bhushan	2	5	2	9
64	Thakare Chaitanya	2	5	2	9
65	Fulpagare Gaurav	2	2	2	7
66	Borse Girish	2	4	2	8
67	Kalase Harshada	2	5	2	9
68	Bhangare Harshada	2	5	2	9
69	Jadhav Payal	2	5	3	10
70	Kauthe Prerna	2	4	2	8
71	Gojare Rutuja	2	5	3	10
72	Dokhe Siddharth	2	5	2	9
73	Chavan Sujata	2	5	3	10

## 9. Activity Images

Innovative teaching activity:- Insights of Industry 4.0

Activity interface for 'Insights of Industry 4.0' by sujata Chavan. The slide titled 'What is industrial 4.0 ?' lists key features: Industry 4.0 is a term used to describe the fourth industrial revolution, characterized by the integration of cyber-physical systems, automation and data exchange in technology and processes within the manufacturing industry. It is a digital transformation. Industry 4.0 can be defined as the integration of digital technologies into manufacturing and production processes.



Activity interface for 'Insights of Industry 4.0' by 11\_VAISHNAVI BADGUJAR. The slide titled 'Industrial revolution infographics' shows a timeline from 1789 to Today, highlighting the progression from Mechanization to Cyber systems.

1.0	2.0	3.0	4.0
1789	1870	1949	Today
<ul style="list-style-type: none"> <li>Mechanization</li> <li>Steam power</li> <li>Weaving loom</li> </ul>	<ul style="list-style-type: none"> <li>Production</li> <li>Assembly line</li> <li>Electricity</li> </ul>	<ul style="list-style-type: none"> <li>Automation</li> <li>Computers</li> <li>Electronics</li> </ul>	<ul style="list-style-type: none"> <li>Cyber systems</li> <li>IoT</li> <li>Network</li> </ul>

## 10. Impact Analysis

Sr.No	3- High/Excellent	2 - Moderate /Average	1- Slight/Poor
1. Do you understand the objective of activity?	86.80	13.2	-
2. Do you find this activity helpful in understanding the key concept of topic?	81.8	18.9	-
3. Does this method help to improve presentation skills and communication skills?	79.20	20.8	-
4. Does contents covered are useful in lifelong learning?	77.4	22.60	-

5. Do you want to participate such activity again?	81.1	18.9	-
--	------	------	---

**11. For review and critique contact: e-mail address of faculty and HOD**  
[shinde.vishal@kbtcoe.org](mailto:shinde.vishal@kbtcoe.org), [hod.mech@kbtcoe.org](mailto:hod.mech@kbtcoe.org)

Mr. V. V. Shinde  
Subject In charge

Mr. P.C. Shete  
Module Coordinator

IQAC Coordinator

Dr. A. B. Kakade  
HOD