



MARATHA VIDYA PRASARAK SAMAJ'S
KARMAVEER ADV. BABURAO GANPATRAO THAKARE
COLLEGE OF ENGINEERING



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

Department of Civil Engineering
Innovative Teaching Method – Model Making

Name of Faculty – Ms. K.R. Sonawane
Academic Year– 2020-21

Class – FE
Semester I

Name of Subject:–Engineering Mechanics

Objectives of Methodology:

1. Prepare a model on topics from the syllabus.
2. To clear the basic concept from model
3. Develop practical and presentation skill

Details of Activity/Method: Model Development

Understand concept of engineering mechanics

Description:-

Different types of models based on topic covered in syllabus of engineering mechanics will be prepared by student by using available material and give a presentation on it.

The hands-on activity is design for student to prepare different types of model.

Benefits of Methods:-

1. It helps student to better understanding basic concept of topic covered in engineering mechanics
2. It helps to student to share his ideas with classmate and builds oral communication skills.

Method:-

Monitor and support students as they work through the following in this method:

1. Ask students to make a model of any topic by using available material
2. Prepared model and present by a individually or in group
3. All students are asked to give presentation of prepared model.
4. Teacher examined the presentation of each student and asks questions related to topic and model.

Roles and Responsibilities**● Teacher:-**

1. Suggest available material for development of a model.
2. Provide the study material of different topics and appropriate guide lines at every stage of making models.
3. Remain available during the completion of task.
4. Prepare assessment methodology.

● Student:-

1. Go through all the material provided on model.
2. Once model is selected, understand it and discuss individually
3. Actively participate in presentation and contribute by means of discussion.

Assessment Tools & Rubrics:-

Sr. No.	Rubrics	Marks
1	Model preparation	5 M
2	Understanding of concept	5 M
3	Presentation skill	5 M
4	Timely submission	5 M

Roll No	Name of Students	Model preparation	Understanding of concept	Presentation skill	Timely submission	Total
1	ABIN BIJU	4	4	3	4	15
2	AHER ARPITA SANDIP	3	4	4	4	15
3	AHIRE MANASI VINOD	3	3	4	2	12
4	AHMAD PEERZADA ADIL	3	3	4	3	13
5	BAGUL CHETAN PUNDALIK	--	--	--	--	--
6	BHANDARE SAMRUDDHI NITIN	4	3	4	3	14
7	BHAVSAR EKTA MANOJ	3	4	3	4	14
8	BORASE RAINA PRASHANT	4	4	3	3	14
9	BORASE RIDDHI PRAVIN	4	4	3	4	15
10	CHAVAN SAKSHI ASHOK	4	4	3	4	15
11	DANEJ PRATHAMESH GOVINDA	--	--	--	--	--
12	DASH ROHAN RAVI	4	4	3	3	14
13	DEORE PRATIK RAJENDRA	3	3	4	3	13
14	DESHMUKH SUDHANSHU JAYANT	4	3	4	4	15
15	DHANWATE MADHURI RAJENDRA	4	3	3	2	12
16	DUSEJA SIDDHI ASHOK	3	4	4	3	14
17	GANAGE PARIKSHIT GAJANAN	3	4	3	3	13
18	GANDHALIKAR TEJAS PANKAJ	4	3	3	4	14
19	GOLESAR SHRUTI DATTA	--	--	--	--	--
20	GORE VISHAL ANNASAHEB	--	--	--	--	--
21	HIRE CHAITANYA ANIL	--	--	--	--	--
22	JADHAV SAKSHI SUBHASH	--	--	--	--	--
23	JOSHI AADITYA AJIT	4	4	3	3	14
24	AGRAWAL OM SANJAY	3	4	4	3	14
25	AHER PARTH DEEPAK	--	--	--	--	--
26	AHER PRADNYA BAPU	--	--	--	--	--
27	AHER SWATEJ RAGHUNATH	4	3	3	2	12

28	AHER VAIBHAV KARBHARI	--	--	--	--	--
29	ALI ZEESHAN ALI MOHAMMAD BAQIR	--	--	--	--	--
30	AWANKAR HARI VIJAY	--	--	--	--	--
31	BACHHAV DARSHAN SUNIL	--	--	--	--	--
32	BANGAR MANOJ NAVNATH	--	--	--	--	--
33	BHADANE SURAJ NIVRUTI	--	--	--	--	--
34	BHADANE YASH DEEPAK	3	4	3	2	12
35	BHAMARE YOGITA DILIP	4	3	4	3	14
36	BORAVE VINAY SUNIL	--	--	--	--	--
37	CHAUDHARI PALLAVI BHAGWAN	3	4	3	2	12
38	CHAVAN DIVYA BARKU	4	4	3	4	15
39	CHOUDHARY MOHD ASIF CH BASHIR AHMAD	--	--	--	--	--
40	DEORE ARJUN PRASHANT	--	--	--	--	--
41	DEORE RITESH RAKESH	--	--	--	--	--
42	DESHMUKH VAIBHAV KESHAV	3	4	3	4	14
43	DHAWASKAR URMILA SANJAY	--	--	--	--	--
44	AHER ATHARVA SUBHASH	4	3	4	4	15
45	AHIRRAO HARSHALI VIJAY	4	4	3	4	15
46	AHIRRAO JAYESH VIKAS	--	--	--	--	--
47	AVHAD RUPALI VIJAY	--	--	--	--	--
48	BAGUL ADITYA DEEPAK	3	4	3	4	14
49	BAJARE SURAJ DATTATRY	--	--	--	--	--
50	BANKAR ABHISHEK PUNDLIK	--	--	--	--	--
51	BENAKE AVANTIKA DILIP	3	4	3	3	13
52	WANKHEDE SURAJ SANTOSH	4	3	4	4	15
53	YASH RAJENDRA DESHMUKH	--	--	--	--	--
54	SHRAVANI MANOJ AHER	--	--	--	--	--
55	SOHAN RAJKULE	3	4	4	3	14

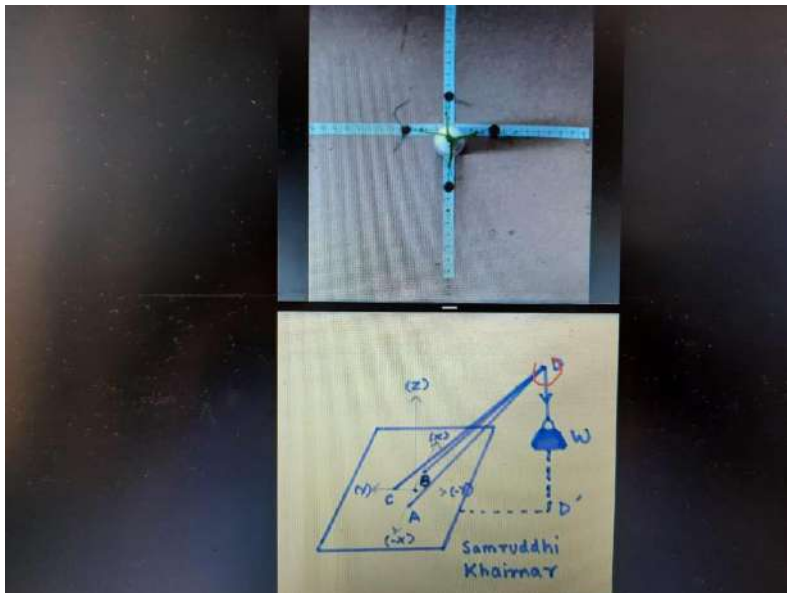
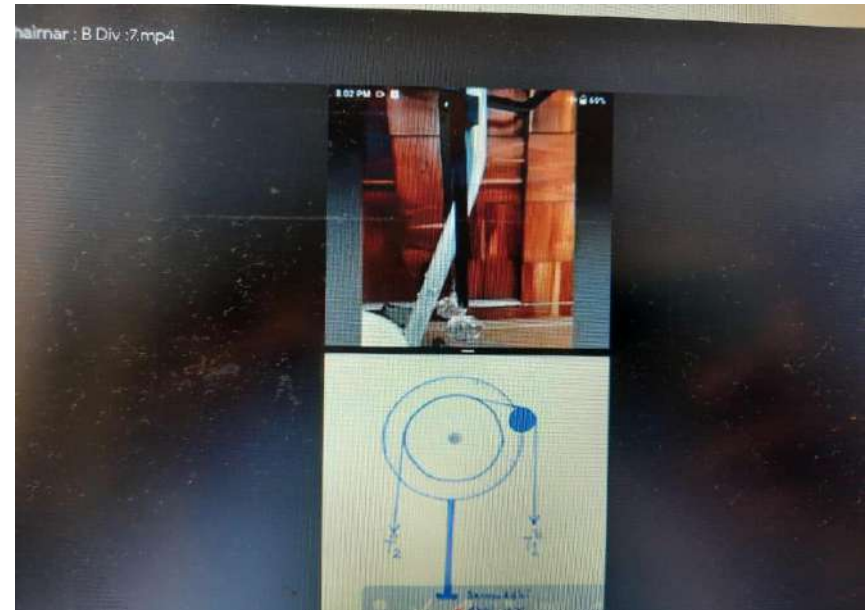
Course Outcomes (Related to Methodology)

	After the completion of course students will be able to:	BTL
CO1	Determine resultant of various force systems	2
CO2	Determine centroid, moment of inertia and solve problems related to friction	2
CO3	Determine reactions of beams, space forces using principles of equilibrium	2
CO4	Solve trusses, frames and cables for finding member forces	2
CO5	Calculate position, velocity and acceleration of particle using principles of kinematics	2
CO6	Calculate position, velocity and acceleration of particle using principles of kinetics and Work, Power, Energy	2

POs (Related to Methodology)

PO1	Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO2	Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
PO9	Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO10	Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
PO12	Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Evidences: Activity Photographs/Videos/Sample PPT's



Feedback/Impact Analysis (Based on Students Feedback):**Course Outcome**

	Course Outcome	CO1	CO2	CO3	CO4	CO5	CO6
A	No. of Groups/Students Achieving CO	20	21	15	19	16	16
B	Total Rating	59	60	37	50	40	39
C	Average Rating (B/A)	2.55	2.50	2.31	2.50	2.35	2.44


Program Outcome

	Program Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
A	No. of Groups/Students Achieving PO	38	38							38	38		38
B	Total Rating	104	99							99	97		100
C	Average Rating (B/A)	2.74	2.61							2.61	2.55		2.63

Link for Review and Critics: <https://forms.gle/vsnY6y8SJNFZP3kD9>



Sign. of Faculty
Ms. K.R. Sonawane



H.O.D Signature
Ms. Nerkar J. J.