

MARATHA VIDYA PRASARAK SAMAJ'S

Karmaveer Adv. Baburao Ganpatrao Thakare College of Engineering (An Autonomous Institute)



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 Applied sciences & Humanities

Engineering Physics Innovative Teaching Method - Report

Academic Year –2024-2025	Class – FY B.Tech E & TC and Intsrumentation Engineering
Semester-I	
CO: CO5	PO: PO9, PO10 & PO12

Title of Innovation method/activity: Mind map

1. Name of Faculty: Mr. Desale N. B.

2. Subject : Engineering Physics

3. Objective of Method

- **a.** It helps students to clear the concept.
- **b.** It helps to improve communication skills, self-learning & confidence.
- **c.** To improve the team work.

4. Topic Covered through Activity

Ultrasonic & Crystal Structure

5. Description of method with Benefit

Description of method

In this method the instructor provides a specific topic. Students prepare a neat and well- structured mind map on paper. The completed mind map is submitted as a hard copy for review and assessment.

Benefits of method

- It helps students to improve subject knowledge.
- It helps students to improve communication skills, self-learning and confidence.
- It helps students to understand the concepts and revised the topic.

6. Roles and Responsibilities

Teacher

- Encourage students to prepare mind map on given topic and upload it on Google Classroom.
- Provide the study material on Topic.
- Remain available during the completion of task.
- Prepare assessment methodology.

Student

- Go through the concept of the topic.
- Once topic assigned, understand and discuss individually within the group.
- Actively participate in group and contribute by means of discussion.

Group

- Form the group of members as per the guidelines by teachers.
- Understand and discuss to finalize the best solution for the assigned task.
- Assign the work within the group to achieve the task within stipulated time period.

7. Assessment Tools: Maximum Marks 08

	3	2	1
R1-	Excellent	Good	poor
Connections			
and	All elements		
relationships	included with	All elements included with	Few elements are included
	sufficient details	some covered superficially	with less correlation.
	3	2	1
	Excellent	Good	poor
	Content presented		
R2-	with clear manner		
Creativity	connection		
	creatively		
	demonstrated, all	Generally satisfactory with	Difficult to follow flow and
	participated.	a few minor lapses	structure. Poor design.
	_	_	
	3	2	1
R3-	Excellent	Satisfactory	poor
Depth of	Door lovel of 4		
information	Deep level and		
and	correct expression.	Companylly actions at any it-	I In abla to avenues:
accuracy	good flow of content seen at ease	Generally satisfactory with a few minor lapses.	Unable to express. Superficial information

Assessment for E & TC Engineering-

Roll Number	Student Name	Attendance	R1	R2	R3	Total Marks
1	Aher Yash Manoj	present	2	2	1	5
2	Ahire Harshal Kailas	present	2	1	1	4
4	Andhalkar Sneha Nitin	present	2	2	1	5
5	Anjarkar Ashlesha Arun	present	2	1	1	4
6	Apsunde Sumit Subhash	present	3	2	2	7
7	Bachhav Ritesh Pravin	present	2	2	2	6
8	Bari Kartik Ganesh	present	2	2	2	6
9	Bhope Deepesh Umesh	present	3	2	2	7
10	Bochare Vaishnavi Vijay	present	2	2	2	6
11	Borade Kanchan Samadhan	present	2	2	2	6
12	Boraste Anushka Pradeep	present	2	2	2	6
13	Chaudhari Mayur Dnyaneshwar	present	2	2	1	5
14	Chinchore Ishaan Sudeep	present	3	2	2	7
15	Datir Asmita Sampat	present	2	2	2	6
16	Deore Manish Lalit	present	2	2	2	6
17	Deore Aditya Sanjay	present	2	2	2	6
18	Dhabale Priti Bhausaheb	present	2	2	2	6
19	Dhatrak Rutuja Popat	present	2	2	2	6
20	Dhole Tushar Bharat	present	2	2	2	6
21	Dhumal Ishwari Santosh	present	3	2	2	7
22	Dosani Adnan Mohamad Arif	present	2	2	2	6
23	Fulmali Dhiraj Gorakhnath	present	2	2	2	6
24	Gaikawad Nikita Rajendra	present	3	2	2	7
25	Gangode Shivanjali Sunil	present	2	2	2	6
26	Gavate Shravani Vasant	present	2	2	1	5
27	Gholap Avinash Suresh	present	3	2	2	7
28	Girase Rohit Jitendra	present	3	2	2	7
29	Gujar Vaibhav Jalindar	present	3	3	2	8
30	Jadhav Nilesh Dattatray	present	3	2	2	7
31	Kabade Shivani Shrikrishna	present	2	2	1	5
32	Khalkar Gauri Changadev	present	2	2	1	5
33	Khode Samruddhi Chandrakant	present	2	2	2	6
34	Mahakale Suraj Sunil	present	2	2	2	6
35	Mandalik Soham Sandip	present	2	2	2	6
36	More Harshal Nandu	present	2	1	1	4
37	More Vaishnavi Vijay	present	2	2	2	6
38	Nigal Shirpad Rajendra	present	2	1	1	4
39	Nikam Shantanu Santosh	present	3	2	2	7
40	Padol Shraddha Ravindra	present	2	2	2	6
41	Pagare Sushil Dattu	present	2	1	1	4
43	Patil Aditya Rajendra	present	2	2	2	6
44	Pawar Roshan Narayan	present	2	2	2	6

45	Pawar Shreyasi Walmik	present	2	2	2	6
46	Pawar Krishna Ishwar	present	2	2	1	5
47	Pawar Bhoomi Sunil	present	3	2	2	7
48	Pingale Vedant Mukund	present	2	2	2	6
49	Potdar Eshika Dattatray	present	3	2	2	7
50	Rathod Harshad Anil	present	2	2	1	5
51	Sahane Vaishnavi Dnyaneshwar	present	3	2	2	7
52	Satpute Yuvraj Santosh	present	2	2	2	6
53	Sawant Kalyani Ganesh	present	2	2	2	6
54	Shetty Aditi Devadas	present	2	2	2	6
55	Shinde Prachi Pundlik	present	2	2	2	6
56	Sinkar Shreya Pravin	present	3	2	2	7
57	Surwade Abhijit Narayan	present	2	2	1	5
58	Tidake Aarti Sandip	present	3	2	2	7
59	Tiwari Aditi Dhiraj	present	3	2	2	7
60	Ugale Vaidanti Dnyaneshwar	present	3	2	2	7
61	Ughade Sahil Gopal	present	2	2	2	6
62	Wadettiwar Nirmal Dilip	present	3	3	2	8
63	Wadghule Radhika Suresh	present	3	2	2	7
64	Wagh Aniket Dattatray	present	3	3	2	8
65	Wagh Priyadarshini Tukaram	present	3	2	2	7
66	Wagh Rajashree Vikas	present	3	2	2	7
67	Wani Manasvi Dhiraj	present	2	2	1	5
68	Yeole Aayush Anant	present	2	2	1	5
69	Kokate Aakansha	present	2	2	2	6

9. Impact Analysis

Questions	3-Excellent	2-Moderate	1-Slight
Q.1 Did you understand and cover the objective of the activity?	75.55	24.44	
Q2.Does this help you increase your knowledge of the topic?	82.22	17.70	
Q.3 Does the content covered is relevant and helpful for lifelong learning?	68.88	31.11	
Q.4 Do you want us to conduct such activity again?	64.44	35.55	

Assessment for Instrumentation Engineering-

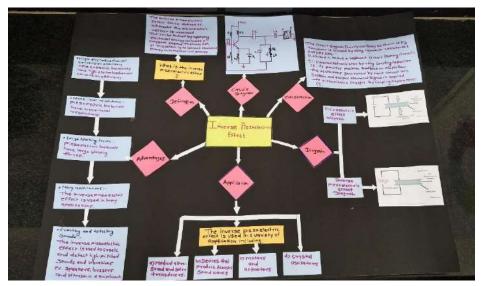
Roll Number	Student Name	Attendance	R1	R2	R3	Total Marks
1	Jadhav Krushna Sunil	present	2	2	2	6
2	Raul Harshwardhan Padamsingh	present	2	2	2	6
3	Aher Shruti Dnyaneshwar	present	3	2	2	7
4	Dighe Sahil Narayan	present	2	2	2	6
6	Ushir Tanushka Sharad	present	2	2	1	5
7	Gawale Samruddhi Vikas	present	3	2	2	7
8	Kanawade Divya Atmaram	present	3	2	2	7
9	Jaybhave Apurva Hiraman	present	2	2	1	5
10	Mhaisdhune Mangesh Suresh	present	2	2	1	5
11	Gade Prathamesh Vaibhav	present	2	2	1	5
12	Chaudhari Satyam Yogesh	present	2	2	2	6
13	Barve Kripa Jitendra	present	3	2	2	7
14	Momle Rushikesh Kailas	present	2	2	2	6
15	Chavanke Aditi Nitin	present	2	2	2	6
16	Deshmukh Anushka Sampat	present	2	2	2	6
17	Thakare Anuja Sunil	present	2	2	2	6
18	Rokade Manasvi Shantaram	present	2	2	2	6
19	Shewale Anish Amol	present	2	2	2	6
20	Patrange Parth Rajesh	present	2	2	2	6
21	Dukale Chaitali Balu	present	2	2	1	5
22	Pawar Swami Nitin	present	3	2	2	7
23	Wagh Saloni Arun	present	3	2	2	7
24	Pathade Rudraksha Chandrashekhar	present	2	2	1	5
25	Lahamage Pragati Dattu	present	2	2	1	5
26	Guldagad Rushikesh Vijay	present	2	2	1	5
27	Bhalerao Shravani Suresh	present	2	2	1	5
28	Puri Jay Raju	present	3	2	2	7
29	Bajare Sangram Sharad	present	2	2	1	5
30	Ahire Unnatee Sunil	present	3	2	2	7
31	Patil Siddharth Amol	present	3	2	2	7
32	Patil Vaishnavi Suresh	present	3	3	2	8
33	Gangurde Vaishnavi Pankaj	present	2	2	2	6
34	Pawar Purab Tukaram	present	3	2	2	7
35	Jagtap Anvi Hemant	present	2	1	1	4
36	Dabhade Tanishka Sanjay	present	2	1	1	4
37	Bhandare Viraj Vijay	present	2	1	1	4
38	Korde Adinath Pandharinath	present	2	1	1	4
39	Bhamare Harshali Atul	present	2	2	1	5
40	Thete Dhanashri Ajit	present	2	1	1	4
41	Gangurde Rutuja Manik	present	3	3	2	8
42	Bhavar Kartik Somnath	present	2	2	2	6
43	Mohite Snehal Pravin	present	2	2	2	6
44	Ahire Khushali Sahebrao	present	2	2	2	6
44 45	Ahire Anjali Samadhan	present	3	2	2	7
43	/ mino / mjan Damadnan	present				,

46	Gaikawad Harshada Gulab	present	2	2	2	6
47	Jagtap Bhavesh Mohan	present	2	2	2	6
48	Pol Akshad Vishal	present	2	2	2	6
49	Aher Jidnyasa Bhila	present	2	2	2	6
50	Jadhav Tejas Shantaram	present	2	2	2	6
51	Sonawane Sarthak Nitin	present	3	2	2	7
52	Ghumare Sahil Rahul	present	3	2	2	7
53	Ahire Tejas Vijay	present	3	2	2	7
54	Lagad Krutika Dhanaji	present	3	2	2	7
55	Sarkar Shreya Ranjan	present	3	2	2	7
56	Deore Shyam Ashok	present	3	2	2	7
57	Bhalerao Gayatri Annasaheb	present	3	2	2	7
58	Shinde Vrushali Nitin	present	3	2	2	7
59	Talekar Samruddhi Baban	present	3	2	2	7
60	Talekar Rutuja Vitthal	present	3	2	2	7
61	Jadhav Sarvesh Kautik	present	2	2	2	6
62	Shinde Siddhi Dnyaneshwar	present	2	2	2	6
63	Sonawane Yutika Mahendra	present	2	2	2	6
64	Bandrao Jay Dattatray	present	2	2	2	6
65	Bhamare Gitkumar	present	2	2	2	6

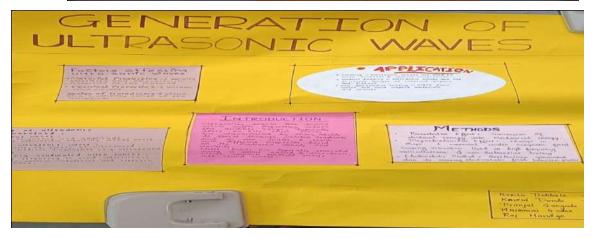
9. Impact Analysis

Questions	3-Excellent	2-Moderate	1-Slight
Q.1 Did you understand and cover the objective of the activity?	83.33	16.66	
Q2.Does this help you increase your knowledge of the topic?	81.66	18.33	
Q.3 Does the content covered is relevant and helpful for lifelong learning?	88.33	11.66	
Q.4 Do you want us to conduct such activity again?	83.33	16.66	

Activity Images:







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

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HOD