



Department of Applied sciences & Humanities

Engineering Physics Innovative Teaching Method - Report

Academic Year –2024-2025	Class – FY B.Tech Civil & Electrical Engineering
Semester–I	
CO: CO5	PO: PO9, PO10 & PO12

Title of Innovation method/activity: Mind map

1. Name of Faculty: Mr.Birar D.P.

2. Subject : Engineering Physics

3. Objective of Method

- It helps students to clear the concept.
- It helps to improve communication skills, self-learning & confidence.
- 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

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

Assessment for Civil Engineering-

Roll Number	Student Name	PRN	Attendance	R1	R2	R3	Total Marks
2	Rishabh Attarde	24105002	present	3	2	1	6
3	YASH BACHHAV	24105003	present	3	2	1	6
4	KALPESH BADHAN	24105004	present	3	2	1	6
5	NITIN BAGUL	24105005	present	3	2	1	6
6	ROSHAN BARVE	24105006	present	2	2	2	6
7	KAUSTUBH BEDADE	24105007	present	2	2	2	6
8	SUJAL BHALERAO	24105008	present	2	2	2	6
10	VAIBHAV BHAMARE	24105009	present	2	2	2	6
11	Lalit Bhoje	24105010	present	2	2	2	6
12	Vaibhav Boraste	24105011	present	2	2	2	6
13	ADITYA DHAKNE	24105012	present	2	2	2	6
14	JAYESH GAIKWAD	24105013	present	2	2	2	6
15	Vivek Dheringe	24105014	present	2	2	2	6
16	ARPITA DOKHALE	24105015	present	3	2	2	7
17	Kaveri Donde	24105016	present	3	2	2	7
18	PRANJAL GANGODE	24105017	present	3	2	2	7
19	MRUNMAI GODSE	24105018	present	3	2	2	7
20	RAJ HANDGE	24105019	present	3	2	2	7
21	Sahil Hiray	24105020	present	2	2	2	6
22	TANISH JADHAV	24105021	present	2	2	2	6
23	PARTH JADHAV	24105022	present	2	2	2	6
24	ANUSHKA JADHAV	24105023	present	3	3	2	8
25	YASH JADHAV	24105024	present	3	3	2	8
26	ISHWARI JADHAV	24105025	present	3	3	2	8
27	Vedant Jadhav	24105026	present	3	3	2	8
28	OM KACHARE	24105027	present	3	3	2	8
29	PRANJAL KADAM	24105028	present	3	3	2	8
30	SAMRUDDHI KADAM	24105029	present	3	3	2	8
31	BHAKTI TANPURE	24105030	present	3	3	2	8
32	Atharv Kakad	24105031	present	3	3	2	8
33	ADITYA KAKAD	24105032	present	3	3	2	8
34	Sarvesh Kakad	24105033	present	2	2	2	6
35	SHAMBHURAJE KAKADE	24105034	present	2	2	2	6
36	ADESH KALE	24105035	present	2	2	2	6
37	DHIRAJ KUNDE	24105036	present	2	2	2	6
38	DEVEN KUTE	24105037	present	2	2	2	6
39	TANISHQ LAHAMGE	24105038	present	3	2	2	7
40	SHRUSHTI MATSAGAR	24105039	present	3	2	2	7
41	SWAROOP MORADE	24105040	present	3	2	2	7
42	MANASWI NANDAN	24105041	present	3	2	2	7
43	SIDDHANT NAWALE	24105042	present	3	2	2	7
44	Sayali Nawale	24105043	present	3	2	2	7
45	AADITYARAJE NIKAM	24105044	present	3	2	2	7
46	HITESH NIKAM	24105045	present	3	2	2	7

47	PUJA PATHADE	24105046	present	3	2	2	7
48	NISHANT PATIL	24105047	present	3	2	2	7
49	RAJWARDHAN PATIL	24105048	present	3	2	2	7
50	KETAN PAWAR	24105049	present	3	2	2	7
51	SAMARTH PAWAR	24105050	present	3	2	2	7
52	VEDANT PINGLE	24105051	present	3	2	2	7
53	PURUSHOTTAM PINGLE	24105052	present	3	2	2	7
54	Aditya Pingle	24105053	present	3	2	2	7
55	BHAGWAT RANE	24105054	present	3	2	2	7
56	Yojna Rathod	24105055	present	3	2	2	7
57	DHRUV RAUT	24105056	present	3	2	2	7
58	Atharv Revgade	24105057	present	3	2	2	7
59	VEDANT SALVE	24105058	present	2	2	1	5
60	Jayesh Sangale	24105059	present	2	2	1	5
61	PARTH SAOKAR	24105060	present	3	2	1	6
62	ANUSHKA SAVANT	24105061	present	3	2	1	6
63	TEJAS SHINDE	24105062	present	3	2	1	6
64	MOHIT SOLANKE	24105063	present	3	2	1	6
65	PRACHI SONAWANE	24105064	present	3	2	1	6
66	SHIVAM PATIL	24105065	present	3	2	1	6

Assessment for Electrical Engineering-

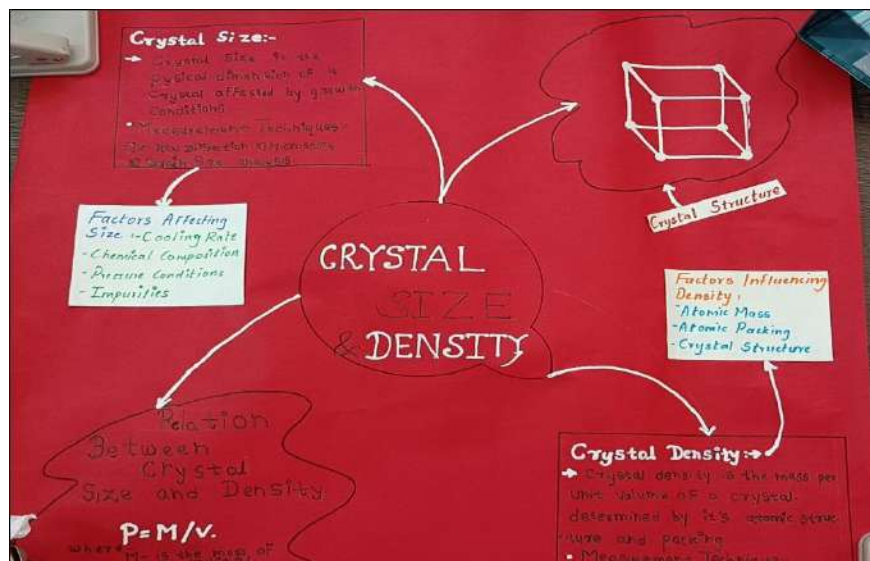
Roll Number	Student Name	PRN	Attendance	R1	R2	R3	Total Marks
1	Darshan Adhav	24108001	present	3	3	2	8
2	SAMARTH AHER	24108002	present	3	3	2	8
3	SARANG AHIRE	24108003	present	3	3	2	8
4	SAMIKSHA AHIRE	24108004	present	3	3	2	8
5	ADITYA BANKAR	24108005	present	3	3	2	8
6	Aditya Bhamare	24108006	present	3	3	2	8
7	TANMAY BHANGALE	24108007	present	3	3	2	8
8	JAYESH BHOIR	24108008	present	1	1	1	3
9	RAHUL BHOYE	24108009	present	1	1	1	3
10	TANMAY BHUJBAL	24108010	present	1	1	1	3
11	Payal Bodake	24108011	present	3	3	2	8
12	SHUBHANGI CHANDE	24108012	present	3	3	2	8
13	MONIKA CHAUDHARI	24108013	present	1	1	1	3
14	NILESH CHAVAN	24108014	present	3	3	2	8
15	KSHITIJ DANDIKWAR	24108015	present	3	3	2	8
16	SARTHA DESHMUKH	24108016	present	3	3	2	8
17	SHRIRAJ DESHMUKH	24108017	present	3	3	2	8
18	ATHARVA DHABALE	24108018	present	3	3	2	8
19	VAISHNAVI GADHE	24108019	present	3	3	2	8
20	GAYATRI HANDORE	24108020	present	3	3	2	8
21	ANIKET HIRE	24108021	present	3	3	2	8
22	RAHUL JADHAV	24108022	present	3	2	1	6
23	KUNAL JADHAV	24108023	present	3	3	2	8

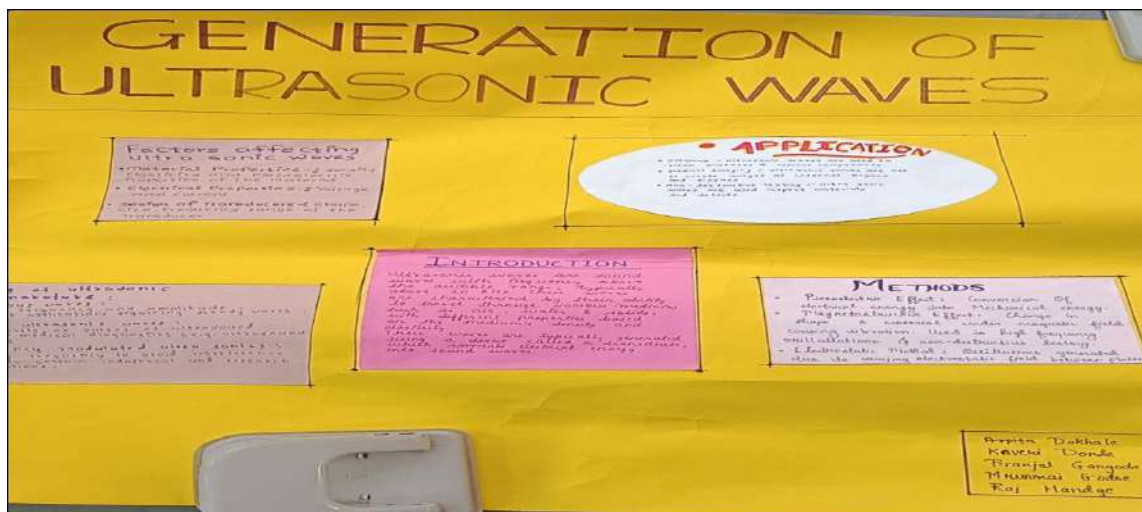
24	SURAJ JADHAV	24108024	present	3	2	1	7
25	VISHAL KADLAG	24108025	present	3	2	1	7
26	KRISHNA KAKAD	24108026	present	3	3	2	8
27	RENUKA KALE	24108027	present	3	3	2	8
28	BUDDHABHUSHAN KAMBALE	24108028	present	3	3	2	8
29	ISHWARI KATKADE	24108029	present	3	3	2	8
30	SAKSHI KHALKAR	24108030	present	3	3	2	8
31	SANIKA KONDAWALE	24108031	present	3	3	2	8
32	Rushikesh Mahajan	24108032	present	3	3	2	8
33	PARIGHA MAHALE	24108033	present	3	3	2	8
34	KHUSHI MAVAL	24108034	present	2	2	2	6
35	ADITYA MOGAL	24108035	present	2	2	2	6
36	PRASHANT MORE	24108036	present	2	2	2	6
37	AYUSH NIKAM	24108037	present	2	2	2	6
38	RUSHIKESH PACHPUTE	24108038	present	2	2	2	6
39	RAJ PAGAR	24108039	present	2	2	2	6
40	YASH PAGARE	24108040	present	2	2	1	5
41	SNEHA PARDESHI	24108041	present	3	3	2	8
42	ANUSHKA PARDESHI	24108042	present	2	2	2	6
43	DHANANJAY PARDESHI	24108043	present	3	3	2	3
44	VARSHA PATHAK	24108044	present	3	3	2	8
45	Mayur Patil	24108045	present	3	3	2	8
46	MANAS PATIL	24108046	present	3	3	2	8
47	HARSHADA PATIL	24108047	present	3	3	2	8
48	NIKHIL PATIL	24108048	present	3	2	1	7
49	YAMINI PATIL	24108049	present	3	3	2	8
50	Sneha Pingle	24108050	present	3	3	2	8
51	AANTASHA PINJARI	24108051	present	3	3	2	8
52	Omkar Pomnar	24108052	present	2	2	2	6
53	KAUSTUBH PONKSHE	24108053	present	3	3	2	8
54	GAURI SHINDE	24108054	present	3	3	2	8
55	POOJA SHINDE	24108055	present	3	3	2	8
56	Hitesh Shinde	24108056	present	3	2	1	7
57	SANSKRUTI SHINDE	24108057	present	3	3	2	8
58	Raj Sonar	24108058	present	3	3	2	8
59	ANUSHKA SONAWANE	24108059	present	3	3	2	8
60	Akshay Sonawane	24108060	present	3	2	1	7
61	SANSKAR THETE	24108061	present	3	3	2	8
62	Kartik Thete	24108062	present	2	2	2	6
64	AYUSHKUMAR VISHWAKARMA	24108063	present	2	2	2	6
65	OM YEOLE	24108064	present	3	3	2	8

9. Impact Analysis

Questions	3-Excellent	2-Moderate	1-Slight
Q.1 Did you understand and cover the objective of the activity?	78.72	21.27	--
Q2.Does this help you increase your knowledge of the topic?	68.08	31.91	---
Q.3 Does the content covered is relevant and helpful for lifelong learning?	63.83	36.17	--
Q.4 Do you want us to conduct such activity again?	72.34	27.65	--

Activity Images:





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

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