Department of Applied sciences & Humanities

Engineering Physics Innovative Teaching Method - Report

Academic Year –2025-2026	**Class –** FY B. Tech Instrumentation and Electronics and Telecommunication Engineering
Semester–I	
CO: CO5	**PO:** PO9, PO10 & PO12

Title of Innovation method/activity: Mind Map

1. **Name of Faculty: Mrs. P. G. Ugale**
2. **Subject: Engineering Physics (100102)**
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

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 Electronics and Telecommunication Engineering -

ROLL NUMBER	STUDENT NAME	ATTENDANCE	R1	R2	R3	TOTAL MARKS
70	MORE GAYTRI POPAT	PRESENT	3	2	2	7
71	MORE OM PRAKASH	PRESENT	3	2	2	7
72	MUKHEDKAR SIDDHESH MAHENDRA	PRESENT	3	2	2	7
73	NANDAN PARTH PRASHANT	PRESENT	2	2	1	5
74	NEMADE HIMANSHU RAJESH	PRESENT	3	3	2	8
75	NIKAM SRUJAN NITIN	PRESENT	2	2	2	7
76	PAGAR DHIRAJ CHANDRABHAN	ABSENT	0	0	0	0
77	PAGARE AMOGH NITIN	PRESENT	2	2	2	7
78	PANDIT SNEHA VILAS	PRESENT	2	3	2	7
79	PANGAVHANE PREM SHANTARAM	PRESENT	2	2	2	6
80	PARDESHI VIVEK VINOD	PRESENT	2	3	2	7
81	PATIL ADITYA SUDHAKAR	PRESENT	3	2	2	7
82	PATIL DEVEN DIPAK	PRESENT	3	2	2	7
83	PATIL TRUPTI MOTILAL	PRESENT	3	2	2	7
84	PATIL SIDDHESH GANESH	PRESENT	3	3	2	8
85	PATIL RISHIKESH SACHIN	PRESENT	2	2	2	6
86	PATIL PRATHMESH VISHNU	PRESENT	3	2	2	8
87	PATIL YASH MAHENDRA	PRESENT	3	2	2	7
88	PATIL AKSHAY SANJAY	PRESENT	2	3	2	7
89	PAWAR PURVA DINESH	PRESENT	3	3	2	8
90	PAWAR GHANSHYAM VINOD	PRESENT	3	3	2	8
91	PAWAR DEVENDRA BHIKAN	PRESENT	3	3	2	8
92	RAYATE NILAY PRAVIN	PRESENT	3	2	2	7
93	SALUNKE VAISHNAVI DIPAK	PRESENT	3	2	2	7
94	SALUNKE SAURAV VISHAL	PRESENT	2	1	2	5
95	SANDHAN SNEHAL SHRIKRISHNA	PRESENT	3	3	2	8
96	SANGALE HARSHADA GORAKSHANATH	PRESENT	3	3	2	8
97	SAWANDKAR SHREYASH HANUMAN	PRESENT	3	3	2	8
98	SAWANT VISHAKHA DINESH	PRESENT	3	2	2	7

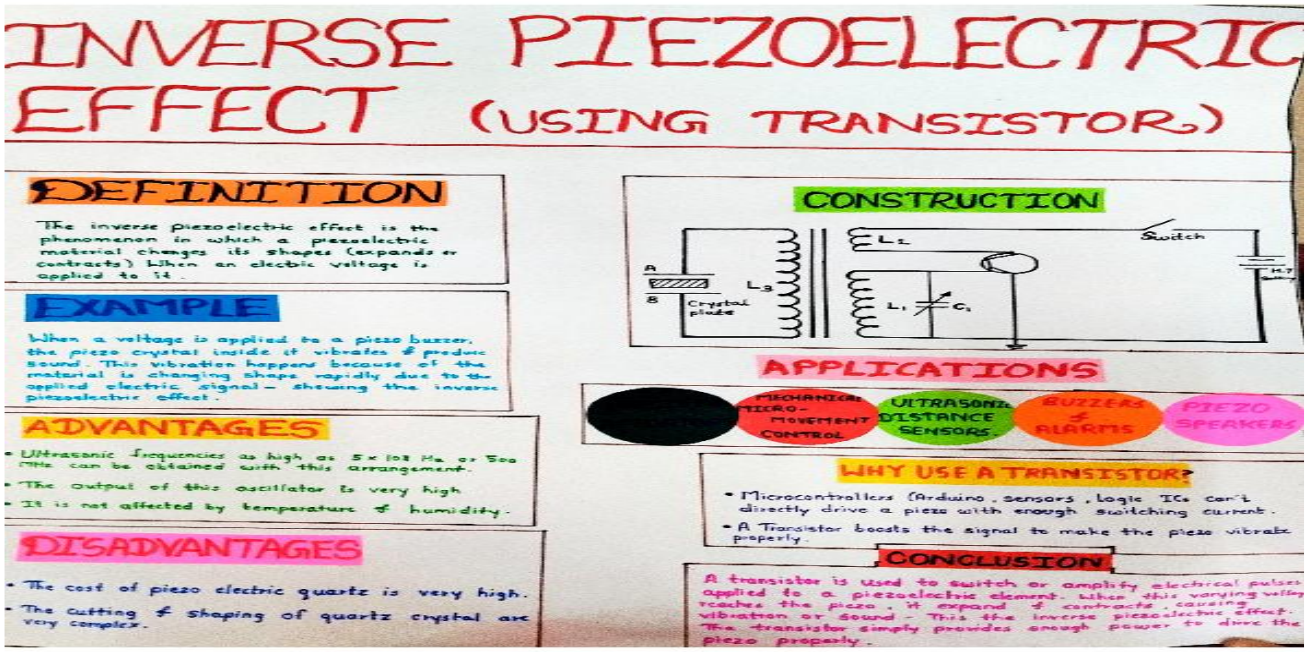
99	SHAIKH ASAD SALIM	PRESENT	1	2	2	5
100	SHAIKH NOOMAN MOHAMMAD	PRESENT	2	2	1	5
101	SHELAR ADITYA SANTOSH	PRESENT	3	3	2	8
102	SHELAR SNEHAL SATISH	PRESENT	3	3	2	8
103	SHETE ARYA VINOD	PRESENT	2	2	2	6
104	SHEWALE VAIBHAV DIPAK	PRESENT	2	3	2	7
105	SHIMPI SRUSHTI UMESH	PRESENT	2	3	2	7
106	SHINDE ROHAN MAHARUDRA	PRESENT	1	2	2	5
107	SHIRSATH MANAS KISHOR	PRESENT	3	3	2	8
108	SHIVALE ARCHIS SHASHIKANT	PRESENT	3	2	2	7
109	SOMVANSHI TANISHKA VIJAY	PRESENT	2	2	2	6
110	SONAWANE TANUJA KEVAL	PRESENT	3	2	2	7
111	SONAWANE PRANAV DINESH	PRESENT	2	2	2	6
112	SONAWANE SUYASH MADHUKAR	PRESENT	3	2	2	7
113	SONAWANE KUNAL VASANT	ABSENT	0	0	0	0
114	TAYADE ADITYA MILIND	PRESENT	2	2	2	6
115	TIWARI RADHIKA CHANDRASHEKHAR	PRESENT	3	3	2	8
116	UGALE TANMAY JAGDISH	PRESENT	2	2	2	6
117	VAIRAGI DARSHAN DEEPAK	PRESENT	1	2	2	5
118	VYAVAHARE SARTHAK LAXMIKANT	PRESENT	3	2	2	8
119	WAGH GAURAV GORAKHNATH	PRESENT	2	2	2	6
120	WAKCHAURE SAEE BALASAHEB	PRESENT	3	2	2	7
121	WANKHEDE AAYUSH SUNIL	PRESENT	2	2	2	6
122	YADAV VINIT RAVINDRA	PRESENT	2	2	2	6
123	ZALTE GAURAV ANIL	PRESENT	3	2	2	7
124	ZANKAR SHUBHAM EKNATH	PRESENT	3	2	2	7

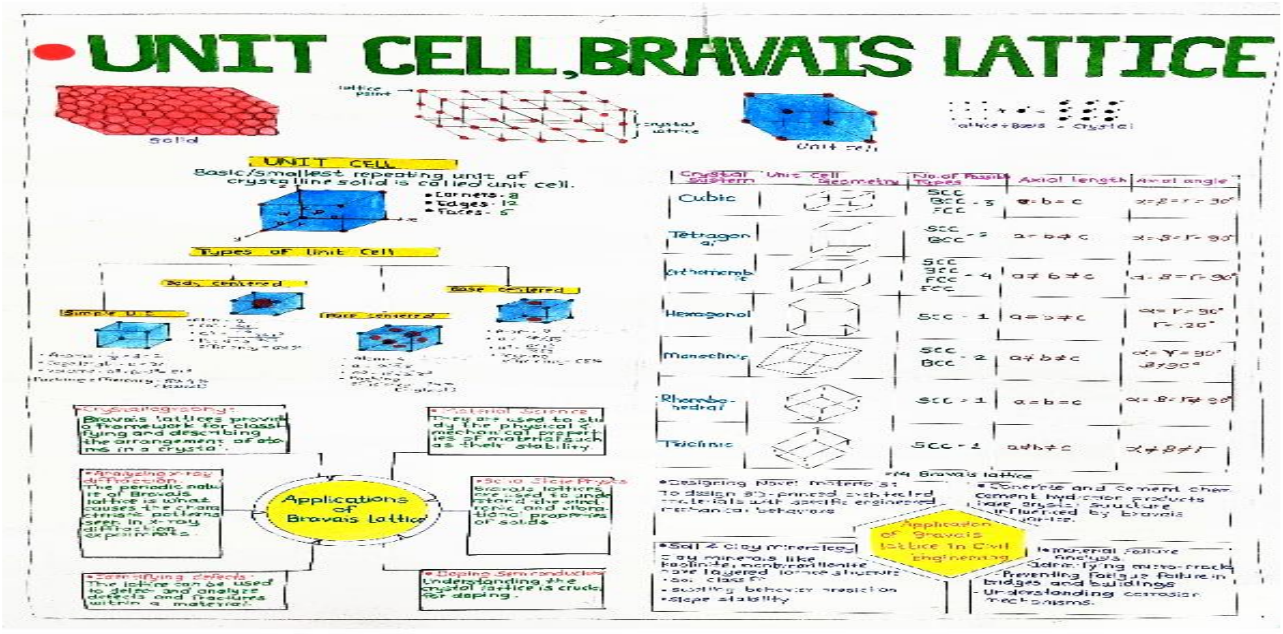
Assessment for Instrumentation and Control Engineering-

ROLL NUMBER	STUDENT NAME	ATTENDANCE	R1	R2	R3	TOTAL MARKS
1	AGHAV SHRUTI HARIDAS	PRESENT	1	2	2	5
2	AHER SAKSHI BHIMRAO	PRESENT	3	3	2	8
3	AHIRE MUKESH RAJENDRA	PRESENT	2	3	2	7
4	ANAP SIDDHI RAMESH	PRESENT	3	3	2	8
5	BAHADURE ANSH RAJU	PRESENT	3	2	2	7
6	BORADE NAMRATA BHARAT	PRESENT	3	3	2	8
7	CHINCHOLE ANUJ ANIL	PRESENT	3	3	2	8
8	DEORE KIRTI SUNIL	PRESENT	1	2	2	5
9	DESHMUKH TANVI PRAMODRAO	PRESENT	3	3	2	8
10	DHONDGE SUMIT MILIND	PRESENT	2	2	2	6
11	FADOL SANKET SHIVAJI	PRESENT	3	3	2	8
12	GOLHAR MAYANK PRAMOD	PRESENT	1	2	2	5
13	GUDHE DHANANJAY PRABHAKAR	PRESENT	3	3	2	8
14	HIRE JANHAVI GOKUL	PRESENT	3	2	2	7
15	JADHAV OJAS RAMESH	PRESENT	3	3	2	8
16	JADHAV TEJAS KISHOR	PRESENT	1	2	2	5
17	JAGTAP KIRTI RAOSAHEB	PRESENT	3	3	2	8
18	JAGTAP SHRIRAM SANTOSH	PRESENT	3	3	2	8
19	KADAM VAISHALI CHANDRABHAN	PRESENT	3	3	2	8
20	KHAIRNAR PRIYA JAGDISH	PRESENT	3	3	2	8
21	KHALKAR UMESH NAVNATH	PRESENT	3	3	2	8
22	KOKATE TANUJA RANGNATH	PRESENT	3	3	2	8
23	KOLTE VEDANT SANTOSH	PRESENT	2	2	2	6
24	KULDHARAN VEDASHREE VILAS	PRESENT	3	3	2	8
25	KUMBHARDE OM SUBHASH	PRESENT	3	3	2	8
26	LODH KRISHNA GOPAL	PRESENT	3	3	2	8
27	MALI VARSHA SANTAJI	PRESENT	3	3	2	8
28	MALI DURGESH ISHWARDAS	PRESENT	3	3	2	8
29	MOHITE PAVAN SHIVAJI	PRESENT	3	2	2	7
30	MORE TANISHKA SANGRAM	PRESENT	2	2	0	4
31	NAGE SAHIL PRAMOD	PRESENT	2	2	2	6
32	NIKAM PARTH NANDKISHOR	PRESENT	2	2	2	6

33	NIKAM RHUTVIK RAJENDRA	PRESENT	2	2	2	6
34	PAGAR RIYA SANDIP	PRESENT	1	2	1	4
35	PAGAR KUNAL YOGESH	ABSENT	0	0	0	0
36	PAGAR SAHIL DATTATRAY	PRESENT	3	2	2	7
37	PALVE CHAITANYA SANTOSH	PRESENT	3	3	2	8
38	PARDESHI PIYUSH JITENDRA	PRESENT	1	2	1	4
39	PATIL KARTIK PRAVIN	PRESENT	3	3	2	8
40	PATIL ROHIT SAMADHAN	PRESENT	2	2	2	6
41	PATOLE VAISHNAVI PANKAJ	PRESENT	3	3	2	8
42	POLE AJAY GOVIND	PRESENT	3	1	2	6
43	RIKAME VAISHNAVI PRAKASH	PRESENT	3	3	2	8
44	SABLE MAHENDRA JAYRAM	ABSENT	0	0	0	0
45	SANAP KAJAL VINAYAK	PRESENT	2	3	0	5
46	SHELKE PUNAM SUNIL	PRESENT	3	3	2	8
47	SHEWALE SHIVAM BHAGWAN	PRESENT	3	2	2	7
48	SHINDE SNEHA GORAKSHNATH	ABSENT	3	3	2	8
49	SHIRSATH SURAJ TULSHIRAM	PRESENT	2	3	2	7
50	SOMVANSHI MAHESH SUKDEV	PRESENT	3	3	2	8
51	SOMVANSHI KRUSHNA SANJAY	PRESENT	3	3	2	8
52	SONAWANE RUSHIKESH SUNIL	PRESENT	3	3	2	8
53	SONAWANE KRISHNA SURYAKANT	PRESENT	3	3	2	8
54	SURASHE SARVESH ARUN	PRESENT	2	2	2	6
55	TAMBE VAISHNAVI BHAUSAHEB	PRESENT	3	2	2	7
56	THETE SAMARTH DIPAK	PRESENT	2	2	2	6
57	THOMBARE KIRAN TUKARAM	PRESENT	3	3	2	8
58	THOOL ANUP MEGHRAJ	PRESENT	3	2	1	6
59	UGALE SAMRUDDHI SANJAY	PRESENT	3	3	2	8
60	WAGH SHREYA SANJAY	ABSENT	3	3	2	8
61	WAKTE SAMIKSHA AJIT	PRESENT	3	3	2	8
62	WARANDAL NIRALI SACHIN	PRESENT	3	3	2	8
63	WAWDHANE OM VISHWAS	PRESENT	3	3	2	8
64	ZARBADE PREM RAJESH	PRESENT	3	2	2	7

Activity Images:





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

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Course Incharge	**Module Coordinator**	**HOD**