

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: 2024-25

Class: Second Year

Semester: II

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

Programme Outcome: PO1, PO5, PO10, PO12

Innovative Teaching Method

Title of Innovative teaching method: Use of Psychrometry App

- **1.** Name of faculty: Dr. D. B. Uphade **Applied Thermodynamics**
- 2. Subject:
- 3. Objective of method:
 - i. To create awareness among students about mobile application of Psychrometry App.
 - ii. To understand the easy and ready use of Psychrometry App in field.
 - iii. To read the Psychrometric property values for the actual data point values.
 - iv. To apply the actual data point values for Psychrometric process.
- 4. Topic covered through activity: Understand the Psychrometric properties of moist air and identify the different processes.

5. Description of method with benefits

In this activity teacher assigned specific Psychrometric process to group of students. After that students need to think about detail locating the first point of process. After that student will get sufficient time to gather information about details of process. After that students need to locate the point on chart as per their skills and prepare snap-image 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 readily and easily available Psychrometric point and processes.
- ii. It will provide platform to improve their soft skills, discuss among group of students and students will learn about how to use modern mobile app in the field.

6. Roles and responsibilities:

Teacher

- Assign particular process to the students and guide them about the activity. i.
- ii. Observe and check point located and processes marked by each student.
- iii. Observe processes marked by students during assessment and evaluate the performance of individual student as per criteria mentioned below (Rubrics).

Student

- i. Detail study of process which is assigned by teacher.
- ii. Prepare process and mark it on Psychrometric app.

7. Assessment tools with rubrics:

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

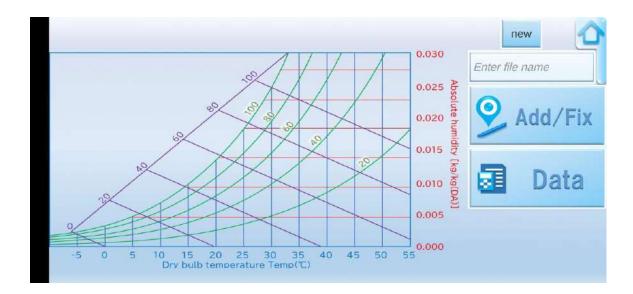
Α	В	С
Understanding	Demonstration	Questions & Answers
02	05	03

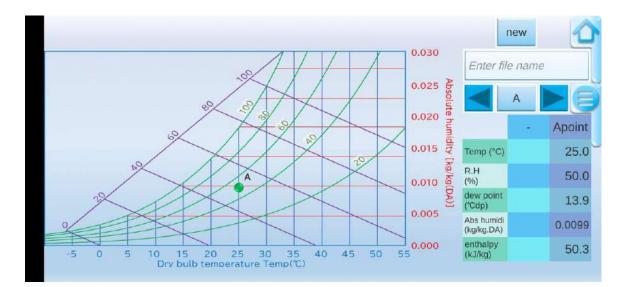
8. Evaluation sheet of Attendees

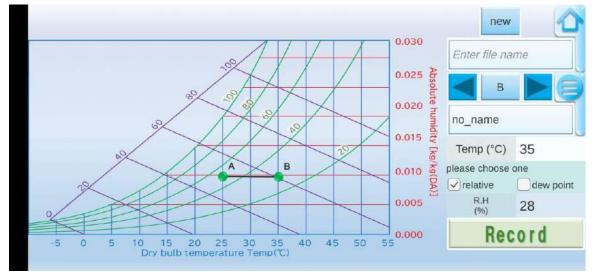
Sr. No	Name of Student	Α	В	С	Marks (Out of 10)
62	Prasad Londhe	3	4	3	10
63	Yogesh Madage	2	4	3	9
64	Abhijit Mahajan	2	5	3	10
65	Maithili Chavan	2	5	3	10
66	Yash Malode	2	3	3	8
67	Shubham Matsagar	2	3	2	7
68	Pratik Mhaisdhune	2	4	2	8
69	Shivam Mitke	2	3	2	7
70	Aakash Mohane	2	3	2	7
71	Gaurav More	2	5	2	9
72	Yash More	2	3	2	7
73	Sachin Nagare	2	4	3	9
74	Sanchit Nagare	2	3	2	7
75	Prasad Nalawade	2	5	3	10
76	Shantanu Nimbalkar	2	3	2	7
77	Pratik Pachore	2	5	2	9
78	Sakshi Pachorkar	2	5	3	10
79	Shlok Pardeshi	2	5	3	10
80	Parth Bhangre	2	5	3	10
81	Shubham Pathade	2	4	3	9
82	Aaditya Patil	2	5	3	10
83	Piyush Patil	2	5	2	9
84	Rushikesh Patil	2	3	2	7
85	Siddhi Patil	2	5	3	10
86	Tejas Patil	2	3	2	7
87	Viraj Patil	2	5	2	9

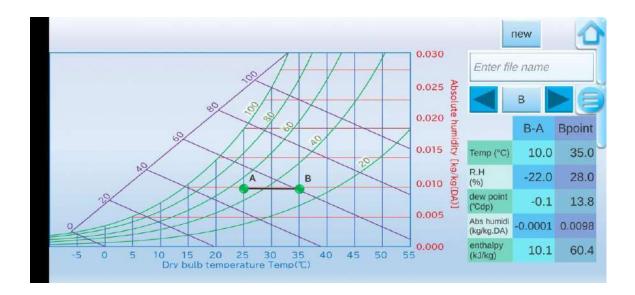
	2	4	^	O
Shivam Patole	2	4	2	8
		_		9
				8
			-	10
Sumit Pawar	2	5	3	10
Dipak Pund	2	4	2	8
Krushna Raut	2	5	3	10
Yash Sainkar	2	5	3	10
Harshada Sangale	2	5	2	9
Darshan Sarode	2	4	2	8
Chetan Shelke	2	4	2	8
Tejaswini Shelke	2	5	2	9
Om Shewale	2	5	3	10
Aaditya Shirsath	2	5	2	9
Ishwar Sonar	2	5	2	9
Anshul Sonawane	2	5	2	9
Shubham Sonawane	2	5	3	10
Sujal Sonawane	2	5	3	10
Tushar Sonawane	2	5	3	10
Vedant Sonawane	2	5	3	10
Aniruddha Surwade	2	5	3	10
Aniket Tambade	2	5	2	9
Aary Tambat	2	5	3	10
Atharv Tarle	2	5	2	9
Sanika Thete	2	5	3	10
Jyoti Thok	2	5	3	10
Viraj Thube	2	3	2	7
Jayesh Ugale	2	5	2	9
Pranjal Varade	2	5	3	10
Vedanti Nikam	2	2	2	6
Gaurav Vidhate	2	5	3	10
Sumit Vyavahare	2	5	3	10
-	2	5	2	9
Sahil Wagh	2	5	3	10
-	2	4	3	9
Sakshi Waje	2	5	3	10
	Ajinkya PawarKrushna PawarSarthak PawarSumit PawarDipak PundKrushna RautYash SainkarHarshada SangaleDarshan SarodeChetan ShelkeOm ShewaleAaditya ShirsathIshwar SonarAnshul SonawaneSujal SonawaneSujal SonawaneVedant SonawaneAniruddha SurwadeAniket TambadeAary TambatAtharv TarleSanika TheteJyoti ThokViraj ThubeJayesh UgalePranjal VaradeSumit VyavhareSakshi VyavhareSakshi Vyavhare	Ajinkya Pawar2Ajinkya Pawar2Krushna Pawar2Sarthak Pawar2Sumit Pawar2Dipak Pund2Krushna Raut2Yash Sainkar2Harshada Sangale2Darshan Sarode2Chetan Shelke2Tejaswini Shelke2Om Shewale2Aaditya Shirsath2Ishwar Sonar2Sujal Sonawane2Sujal Sonawane2Vedant Sonawane2Aniket Tambade2Aniket Tambade2Aniket Tambade2Jyoti Thok2Viraj Thube2Jayesh Ugale2Pranjal Varade2Sumit Vyavahare2Sahil Wagh2	Ajinkya Pawar25Krushna Pawar24Sarthak Pawar25Sumit Pawar25Dipak Pund24Krushna Raut25Yash Sainkar25Harshada Sangale25Darshan Sarode24Chetan Shelke24Tejaswini Shelke25Om Shewale25Aaditya Shirsath25Shubham Sonawane25Sujal Sonawane25Vedant Sonawane25Aniket Tambade25Aniket Tambade25Aniket Tambade25Jyoti Thok25Viraj Thube23Jayesh Ugale25Vedant Nikam25Sumit Vyavahare25Sakshi Vyavhare25Sahil Wagh25	Ajinkya Pawar 2 5 2 Krushna Pawar 2 4 2 Sarthak Pawar 2 5 3 Sumit Pawar 2 5 3 Dipak Pund 2 4 2 Krushna Raut 2 5 3 Yash Sainkar 2 5 2 Darshan Sarode 2 4 2 Chetan Shelke 2 4 2 Tejaswini Shelke 2 5 2 Om Shewale 2 5 2 Aaditya Shirsath 2 5 2 Ishwar Sonar 2 5 2 Anshul Sonawane 2 5 3 Sujal Sonawane 2 5 3 Vedant Sonawane 2 5 3 Aniruddha Surwade 2 5 3 Artharv Tarle 2 5 3 Jyoti Thok 2 5 3 Viraj Thube 2 5 3 Jyoti Thok 2

Activity Images









9. Impact Analysis

Sr. No	3 – High / Excellent	2 – Moderate / Average	1- Slight / Poor
1. Do you understand the objective of activity?	92.6	7.4	-
2. Do you find this activity helpful in understanding the key concept of topic?	82.1	17.9	-
3. Does this method help to improve demonstration skills and communication skills?	80.1	19.9	-
4. Does contents covered are useful in lifelong learning?	78.2	21.8	-
5. Do you want to participate such activity again?	83.7	16.3	-

10. For review and critics contact: e-mail address of faculty and HOD uphade.dinesh@kbtcoe.org, hod.mech@kbtcoe.org

Dr. D. B. Uphade Subject In charge Dr. S.B. Sonawane Module Coordinator

Dr. V. C. Shewale / Prof. V. V. Shinde

IQAC Coordinator

Dr. A. B. Kakade HOD