

Nagar Yuwak Shikshan Sansayha's

Yeshwantrao Chavan College of Engineering

(An Autonomous institution affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)

(Accredited A⁺⁺ Grade by NACC with score 3.25)

Hingna Road, Wanadongri, Nagpur-441110.

Department Of Mechanical Engineering

Innovative Teaching Learning methods during 2025-26.

Sr No	Name of Faculty	Course Code	Course Name	Title of Innovative Method	Objective of Activity	Outcome of the activity
1	Prof. V.M.Korde	23ME1513	IFP	Hands-on training on pipe bending machine	1)To create awareness about the application of Industrial Fluid Power (IFP) in practical fields. 2) To provide hands-on training on the Pipe Bending Machine using IFP principles.	At the end of the training students should be able 1) Construct and understand the applied hydraulic circuit used in a pipe bending machine. 2) Operate and monitor the machine with continuous observations on actuators and their synchronization. 3) Identify and evaluate the functioning of different hydraulic valves within the system.
2	Prof. V.M.Korde	23ME1501	Engineering Thermodynamics	Hands-on training on pipe bending machine	To evaluate students' ability to use real reference data, such as steam tables and thermodynamic charts,	Students effectively utilized steam tables and applied interpolation techniques to accurately determine thermodynamic state properties required for analysis.

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					similar to professional engineering practice	
3	Prof. A.S.Bonde	ME1502	MMQC	Flipped Classroom	To Improve the learning ability. -To Improve the attendance. -To Improve the test competency	- Gradual Improvement in Learning of the students -Improvement in Attendance and attentiveness in lecture -Test Expectancy was improved
4	Prof. A.S.Bonde	ME1303	MP	Flipped Classroom	-To Improve the learning ability. -To Improve the attendance. -To Improve the test competency	-Gradual Improvement in Learning of the students -Improvement in Attendance and attentiveness in lecture -Test Expectancy was improved
5	Prof. M.S. Tufail	23ME1531	Mechatronics	Flipped Classroom	-To evaluate the students' knowledge by preparing a small project containing all	To improve students engagement in the course

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					element of mechatronics system -	
6	Prof. D.I.Sangotra	23OE1313	Industrial safety	Research paper-based report writing	-To identify the recent research topics related to area of subject -To aware students related to research articles, its structure, way of reading, how to write article etc	-Students got information to various structure of research article such as abstract, introduction, experimentation, result and conclusion etc - Students understood how to read the article and extract the finding out of it.
7	Prof. D.I.Sangotra	22ME772	Vibration	Research paper-based report writing	-To identify the recent research topics related to area of subject -To aware students related to research articles, its structure, way of reading, how to write article etc	- Students got information to various structure of research article such as abstract, introduction, experimentation, result and conclusion etc

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8	Prof. A.B.Amle CT-B	23ME1101(T)	EG	Demonstration	-To Develop basic visualization competency as well as ability to representing Idea on paper and computer - To build the exposure and some competence in presenting the ideas as picture and be able to unambiguously interpret drawing from others.	Students will able to imagine and gain knowledge about various orthographic views of the object -
9	Prof. P.S.Barve	23OE1317	HM	Class summary	The main objective of the class summary method is to help students clearly understand and remember the key points taught during the class. This method encourages students to reflect on what they have learned, clear their doubts, and connect	1. Students understood the topic better and were able to recall the main points of the class. 2. Student participation and attention during the class improved. 3. The teacher could quickly identify learning gaps and clarify doubts immediately.

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					important concepts in a short time. It also helps the teacher to check students' understanding and improve the effectiveness of teaching and learning.	
10	Prof. P.S.Barve	23ME1506	ORT	Surprise Test	The main objective of using a surprise test is to check how well students understand the topic without any prior preparation. It helps measure their real learning, encourages regular study habits, and keeps them actively engaged with the subject. It also allows the teacher to identify learning	<ol style="list-style-type: none">1. Students develop regular study habits and stay updated with daily classroom learning.2. Students improve their ability to recall and apply concepts without prior warning.3. Teachers can easily identify weak areas where students need more support.4. Classroom engagement and attentiveness increase over time.5. Overall understanding and performance of students improve through continuous evaluation.

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					gaps and give timely support	
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