

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 2022-23.

Sr No	Name of Faculty	Course Code	Course Name	Title of Innovative Method	Objective of Activity	Outcome of the activity	PO Mapped
1	Dr P.D.Kamble	ME2465	DOETM	KWL	Students will be able to -Learn Practical concepts of spinning. -Understand Concepts of Mechanics of Metal cutting	Student learned the concept of fundamentals of Spinning and Metal forming	PO-1, PO-4, PO-5, PO-6, PSO-1
2	Prof. V.M.Korde	ME2031	RES	Hands on Training	-To introduce awareness regarding the renewable Energy Systems and solar Energy Utilization. -To Provide the hands on training on various renewable systems such as solar flat plate and concentrating collectors, solar cooker ,fuel cell etc	To Construct, discuss various Renewable Energy systems and related parameters. To handle and operate various Renewable system such as solar flat plate and concentrating collectors, solar cooker ,fuel cell	PO-1,PO2,PO-3
3	Prof. V.M.Korde	ME2031	HT	Flipped Classroom	-To make classroom an active learning environment. -To enable student to learn at their own pace	-Flipped learning allows students to learn at their own pace. -It helps the students to review for exam and master the content	PO-1,PO-2,PO-4
4	Dr. S.R.Jachak	22EL105(T)	EG	Demonstration	-To Develop basic visualization	Students will able to imagine and gain	PO1,PO-2

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					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.	knowledge about various orthographic views of the object -	
5	Dr.S.R.Jachak	ME2331	ORT	Flipped Classroom	To understand the basic concepts of transportation problem	-Conceptual clarity of Basics related to transportation algorithm.	PO-1,PO5
6	P.A.Hatwal ne	ME2423	CADM	Research paper based report writing	-To identify the recent research topics related to area of subject. -To aware the students related to research articles, its structure, way of reading, how to write article etc.	-Students will get information related to various structure of research article such as abstract, introduction, experimentation, results, conclusion etc. -Students will understand how to read the research article and extract the findings out of it.	PO-4, PO-5, PO-10
7	Dr.S.P.Ambade	ME2201	MSM	Game based Learning	To measure understanding level of topic in theory class.	Students learnt the concepts of fundamentals of various terminologies in	PO-1, PO-4, PO-5, PO-6, PSO-1

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						IC diagram. -Students able to understand the important word which is scrambled and student has to reconstruct that word	
8	Dr.N.P.Mungle	ME2466	IS	PBL	To apply knowledge of Industrial safety in practical field.	-Engineering Knowledge and Problem analysis in industrial safety.	PO-4,PO-5
10	N.D.Gedam	ME2469	Turbines	Recent Technologies used in Turbines	- To make students aware about the recent trends in Turbines -To develop the habit of self learning among the students.	-Students get acquainted with recent advancement in turbines -Students will be able to apply the knowledge learnt to recent advancements	PO-1,PO-2,PO3,PO-4.
11	DR.V.R.Khawale	ME	SEU	Flipped Classroom	-To understand the concepts Solar Energy -The students should be able to learn themselves	The students will be able to apply engineering knowledge and problem analyse in the Solar Energy	PO-2,PO-5, PO-10
12	DR.V.R.Khawale	ME	PPE	Flipped Classroom	-To understand the concepts of power management. -The students should be able to learn themselves	The students will be able to apply engineering knowledge and problem analyse in the power management.	PO-2,PO-5, PO-10
13	Dr.S.T.Bagde	ME2435	EME	KWL	- To measure understanding level of	-Students learns the concept of fundamental of	PO-7, PO-8, PO-12

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					topic in theory class	various project revival methods. -Students understand the importance of societal aspects of project	
14	Dr A.P.Kedar	ME2464	VE	KWL	-To develop the habit of reading with purpose. -Retention of knowledge	Activates Prior Knowledge of Engineering. Useful in the research projects and to organize information for study	PO-4,PO-6
15	A.S.Bonde	ME2417	AMT	KWL	-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	PO-1,PO-2,PO-3
16	A.S.Bonde	ME2305	PM	KWL	-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	PO-1,PO-2,PO-3
17	N.R.Sunheriya	ME2425	VE	Industrial Case study	To Explore the recent developments in passenger vehicles	Engineering Knowledge and problem analysis in vehicle Engineering.	PO-2,PO-3,

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					available in market. -To understand various systems associated with passenger vehicles	-Industrial Exposure	
18	S.S Nagpure	ME2462	PDD	Flipped Classroom	To use the knowledge gain to practise exercises, projects or discussion during class hours	-Engineering Knowledge and problem analysis in vehicle Engineering. -Self study.	Po-1,PO-2,PO-3.
19	Dr. S. S. Chaudhary	ME 2254	Manufacturing Process II	Experiential Learning	Students will be learn by themselves	Develop skills, knowledge and dispositions that support civic engagement. Connect classroom theory with research, work activity or other community involvement Contextualization of knowledge	PO-1,PO-2,PO-3,PO-4