

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**

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**Innovative Teaching Learning methods during 2023-24.**

Sr No	Name of Faculty	Course Code	Course Name	Title of Innovative Method	Objective of Activity	Outcome of the activity
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
2	Dr P.D.Kamble	ME2361	FEM	KWL	Students will be able to -Learn the constant strain triangle	Student learned the concept of constant strain triangle
3	Prof. V.M.Korde	22ME403	Engineering Thermodynamics	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
4	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

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5	N.D.Gedam	ME2351	Turbines	Recent Technologies used in fluid machines	- To learn themselves -To understand the concept of different fluid machines	- To practice on Recent Technologies used in fluid machines -Students will be able to apply the knowledge of turbine
6	Dr A.P.Kedar	ME2305	PM	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
7	Dr A.P.Kedar	22ME408	MQC	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
8	Dr. S.R.Jachak	22CT1201(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 -

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9	Dr. S.R.Jachak	22ME1201(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 -
10	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
11	A.S.Bonde	ME305	MP	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.
12	A.S.Bonde	ME401	PM	Flipped Classroom	-To understand the concepts of power management. -The students should be	The students will be able to apply engineering knowledge and problem analyse in the power management.

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					able to learn themselves	
13	A.S.Bonde	ME408	MQC	Field visit at Deepshikha casting , Hingna	-To understand the learning ability -To improve the test expectancy	Gradual improvement in learning ability of students Improvement in attendance and attentiveness in the lecture
14	Dr.S.T.Bagde	ME2435	EME	KWL	- To measure understanding level of topic in theory class	-Students learns the concept of fundamental of various project revival methods. -Students understand the importance of societal aspects of project
15	N.R.Sunheriya	ME2425	VE	Industrial Case study	-To Explore the recent developments in passenger vehicles available in market. To understand various passenger vehicles	Engineering Knowledge and problem analysis in vehicle Engineering. -Industrial Exposure
16	N.S.Suneriya	22ME1103	EG (CSD)	Object based learning	-Experimental and active learning - Lateral thinking, analytical skills and group work features are improved	-To develop visualization competency - To build exposure in presenting ideas as pictures

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17	P.S.Barve	ME2418	OT	KWL	-Improve learning ability. -Improve text Expectancy	-Improvement in learning ability -Improved attentiveness -Improved expectancy
18	A.B.Amle	23ME1201(T) Sec -c	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 -
19	A.B.Amle SEC-Q	22ME1201(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 -

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20	A.R.Narkhede	22CSE105	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 -
21	A.R.Narkhede	ME2354	DMD	Case study-based learning	To learn themselves To understand the concept of design	Practice themselves on given topic Apply the knowledge of design
22	Dipti Kashyap	ME2384	Robotics and subtractive manufacturing	KWL Chart	Construction and working of different types of sensors used in robot	To select suitable sensors for specific application
23	S.S.Nagpure	22ME302	Fundamental of management and economics	Research paper based	-Function of management -Identify tool and technique of marketing of goods and services	-Differentiate the method of management -Identify various techniques of management
24	G.H.Waghmare	ME2462	PDD	KWL	To understand level of topic in theory class	-Learn the concept of fundamental of various project revival methods -Importance of societal aspects of project

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25	Dr.S.B Sahare	ME2303	DOME	Flipped classroom	-To apply creative thinking -To understand the topic before actual class	-Improvement in creating thinking -To take part in group discussion
26	Dr.S.B Sahare	22ME307	KOM	Flipped classroom	-To apply creative thinking -To understand the topic before actual class	-Improvement in creating thinking -To take part in group discussion
27	Dr.S.B Sahare	22ME402	DOME	Flipped classroom	-To apply creative thinking -To design the element	-Improvement in creating thinking - To design the element
28	M.N.Dakhore	ME2429	CNC AND ROBOTICS	Research article	- To channelize students' knowledge about recent trends in an industry of CNC and robotics	- To prepare the relevant research article - Students should analyse what they would and would not do in a particular situation.
29	M.N.Dakhore	ILOT2363	FMS	Research article	- To channelize students' knowledge about recent trends in an industry of flexible manufacturing system	- To prepare the relevant research article - Students should analyse what they would and would not do in a particular situation.
30	A.P.Edlabadkar	Me2342	Reliability engineering (ODD)	Flipped classroom	-To learn themselves -To understand the concept of field effect transistor	-To practice themselves on given topic -To apply the knowledge of field effect transistor in analysis of electronic circuit

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31	A.P.Edlabadkar	ME2342	Reliability engineering (EVEN)	Flipped classroom	-To learn themselves -To understand the concept of field effect transistor	-To practice themselves on given topic -To apply the knowledge of field effect transistor in analysis of electronic circuit
32	R.V.Adakane	22ME308	MOM	Experiential Learning	To measure understanding level of topic in theory and practical class	-To learn the concepts easily - Individual students develops chart on topic
33	N.J.Giradkar	ME2351	Fluid Machines	Project based learning	To apply the knowledge of water pumping system in practical field	-Apply the knowledge of pipe losses, losses in fitting, energy equation, pump and costing etc
34	Dr. S.P.Ambade	ME2381	ORT	Game based learning	To measure understanding level of topic in theory class	-To learn the concepts of fundamentals of various terminologies operation research -To understand the importance of word -Difficulty level of student can test
35	Dr. V.R.Khawale	ME	RAC	Project based learning	-Before actual class session, students are asked to view the refrigerator at their home. They use knowledge gained from these refrigerators.	-Engineering knowledge and problem analysis in the actual model -Self study

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36	Dr. V.R.Khawale	ME	SEU	Flipped classroom	-Before actual class session, students are asked to view video lecture. They use knowledge gained from these lectures to solve a quiz conducted during the session.	-Engineering knowledge and problem analysis in the project management -Self study
37	Dr. V.R.Khawale	ME	PEM	Flipped classroom	-Before actual class session, students are asked to view video lecture. They use knowledge gained from these lectures to solve a quiz conducted during the session.	-Engineering knowledge and problem analysis in the project management -Self study
38	D.I.Sangotra	ME1415	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	-To understand the various structure of research article such as abstract, introduction, experimentation, result and conclusion etc
39	D.I.Sangotra	22ME406	Dynamic of machinery	Flipped classroom	-To measure understanding level of topic in theory class	-To learnt the concept of fundamentals of various balancing system. - To understand the importance

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						of word which is scrambled and students has to reconstruct that word -Difficulty level of student can test
40	D.I.Sangotra	ME2403	Dynamic of machine	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	-To understand the 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.