

JHULELAL INSTITUTE OF TECHNOLOGY

An Autonomous Institute affiliated to RTM Nagpur University Department of Mechanical Engineering

Off Koradi Road, Lonara, Nagpur 441111

E-Mail ID: admin@jitnagpur.edu.in Website: www.jitnagpur.edu.in

NAAC A+ Accredited Vision: The Mechanical Engineering Department strives for making thorough professionals

who are employable through quality education.

Session: 2022-23 **Preconception Check**

Date and Time	15 JUL 2022, 01:00 am to 02:00 pm	
Activity Name	Preconception Check	
Subject	Engineering Thermodynamics	
Class	Second Year	
Activity Type	Preconception Check for subject Knowledge gain	
Description	Preconception Check is a teaching method that allows learner to recall what they learnt in previous classes. It can be successfully used as a reflection during classroom teaching.	
Objective	To check the students awareness, attentiveness and knowledge gaining capability	
Outcome	Following are the outcomes that make 'Preconception Check' be mo effective than traditional TL Method 1. Increase student engagement 2. Less Us, More Them 3. Improve Interaction with the students	

Evidences

- Distribute the papers
- Red and Green Cards
- Complete the T/F assessment on your own.
- Raise Green Card for True
- Raise Red Card for False

Subject Teacher Rahul Waghmare (ET)



tau_xy*cos(2*phi);

tau 2=-tau 1;

tau_1=sqrt(((sigma_x-sigma_y)/2)^2+tau_xy'2),

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Session: 2022-23

	Problem Based Learni	ing		
Date and Time	18 Mar 2023, 11:00 am to 12:00 pm			
Activity Name	Problem Based Learning			
Subject	CAD			
Class	Final Year			
Description	For generating numerical solution o computational thinking can be opted. I which problem is formulated, mathem and suitable computational/numerical problem. Solution obtained from devel validated by suitable means.	t is problem based learning process in atical model is developed or selected method is implemented to solve the loped programming logic is testing or		
Evidences		2. Problem Solving Steps		
	 1. Problem statement a. Determine the volumetric strain in thin cylindrical pressure vessel of given dimensions and material for a specified charging pressure. b. For 2-D stress condition, determine maximum normal and shear stresses alongwith orientation of planes on which they occur. Also transform the plane stress condition on inclined plane with given plane. 	 Understanding the problem/Problem Definition Problem formulation Apply suitable numerical/ computational method for problem solving Development of programming logic or algorithm for numerical method Develop and execute syntax/program in software Validation of solution Development of user friendly interface. 		
	3. Program and Output			
	<pre>function [sigma_mohr,tau_mohr,sigma_1,sigma_i,tau_1,tau_</pre>	(dsize) ;0		

sigma_1=(sigma_x+sigma_y)/2-sqrt(((sigma_x-sigma_y)+2)*2+tau_xy*2); sigma_2=(sigma_x+sigma_y)/2+sqrt(((sigma_x-sigma_y),2)^2+tau_xy^2);

Subject Teacher Bhushan Deshmukh (CAD)

Head of Department Prof. Prakash V Dhopte

(4) o (MPa)



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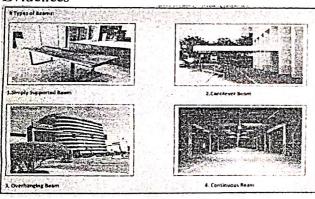
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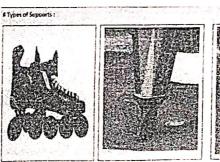
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> Session: 2022-23 Survey

Date and Time	25 Jan 2022. 02:00 pm to 04:00 pm	
Activity Name	Survey	
Subject	MP	
Class	Second Year	
Activity Type	Survey of the components/system with respect to industry	
Objective	To make the students work in team, enhancing their skills and	
	knowledge about availability of components/systems.	
Outcome	Student's ability to work in Team, the currents products in market, their	
	competence and costing w.r.t industry needs.	
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Evidences





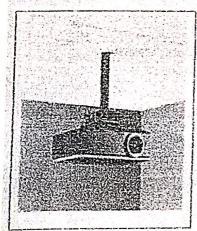


2. Hinge/ Pin Support

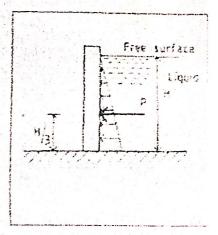
3. Fixed Support

Types of Loading:

BE-THE WEST THE







1. Point toad

2. Uniformly Distributed Load [UDL]

3. Uniformly Varying Load [UVI]

Subject Teacher Prakash Dhopte (IM)



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Session: 2022-23
Tactical to Practical

Date and Time	18 Mar 2023, 02:00 pm to 04:00 pm	
Activity Name	Tactical to Practical	
Subject	Ele. III: Advanced IC Engine	
Class	Fourth Year	
Description	It is a real life problem based TL Method in which large complex problem is divided into small sections. Initial steps will be fetching data from available parameters. Apply easy to use computer method (Numerical Method). Develop user friendly solution to problem.	
Objective	To made students aware about numerical method adopted to solve complex engineering problems.	
Outcome	The Tactical to Practical learning is more effective than traditional TL Method which have following results:- 1. Increase Engagement 2. Problem solving techniques 3. Improve knowledge 4. Improve interaction with the students	

Evidences

1. Problem statement

An Otto cycle engine has a bore of 80 mm and stroke of 85 mm. the clearance volume of engine is 0.06 litres. The actual efficiency of engine is 22%. Assume $\gamma = 1.4$, Determine:

- 1. Compression ratio
- 2. Air standard efficiency

Relative efficiency of the engine.

2. Algorithm development

- 1. Uderstanding of the problem.
- 2. Use of suitable numerical method
- 3. Development of algorithm
- 4. Program writing
- 5. Solution
- 6. Development of user friendly interface.

3. Solution

Subject Feacher Anurag Karande (AIC)



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Session: 2022-23 Think-Pair-Share (TPS)

	THINK I all Share (115)	
Date and Time	12 Feb 2023, 02:00 pm to 04:00 pm	
Activity Name	Think-Pair-Share (TPS)	
Subject	Ele. I: Power Plant Engineering	
Class	Fourth Year	
Description	Think-Pair-Share (TPS) is a collaborative learning strategy in which students work together to solve the problem or answer the question about an assigned reading. This techniques requires students to (1) think individually about a topic or answer a question and (2) share ideas with	
Strategies	Call on random students during a share process of said topic Make sure all students are participating in discussion Student will:- 1. More Participation in classroom	
Outcome		

Evidences

Work-Sheet

THINE, FAIF, SHAFE				
What I think	What my pac	ther thinks	What we will share	
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			7	

Sanjay Sajjanwar (PPE)



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Session: 2022-23 Game Pedagogy

Date and Time	20 Feb 2023, 02:00 pm to 03:00 pm	
Activity Name	Game Pedagogy	
Subject	Energy Conversion II	
Class	Third Year	
Description	Pedagogy is a term that refers to both the art and the science behind how educators teach. In the context of game-based learning, pedagogy involves integrating the principles of effective teaching and learning with the unique features of games, such as interactive storytelling, problem-solving challenges, and immersive environments, to create engaging and compelling learning experiences.	
Outcome	The game based learning is more effective than traditional TL Method which have following results:- 1. Increase Engagement 2. Motivate with no risk 3. Improve performance and knowledge 4. Improve interaction with the students	

Evidences Cross Word			Snakes & Ladder	
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Subject Teacher Dr. Vandita Shahu (EC-II)