DEPARTMENT OF MECHANICAL ENGINEERING

THINK–TEACH–LEARN CYCLE METHOD

Academic year	: 2024-2025
Degree	: B.E
Year & Semester	: II/III
Course Code & Title	: ME3393 / Manufacturing Processes
Name of the Faculty Member	: Dr. B. Dhanasakkaravarthi
Date	: 25/10/2024
Innovative Practice	: Think–Teach–Learn Cycle Method
Topic	: Bulk Deformation process
Total Students Participated	: 27

Introduction

Think–Teach–Learn Cycle Method was introduced as an innovative practice in the course Manufacturing Processes to encourage student collaboration, self-learning, and effective communication. This activity focused on the Bulk Deformation Process, an essential topic in manufacturing, helping students understand real-time industrial applications through interactive presentations.

Methodology

1. Students were divided into small peer groups.
2. Each group was assigned subtopics related to Bulk Deformation Processes (such as rolling, forging, extrusion, and drawing).
3. Students prepared presentations and teaching materials under the guidance of the faculty.
4. Each group presented their topic to the class, ensuring peer-to-peer knowledge transfer.
5. A Q&A session followed, allowing interaction, clarification, and collaborative learning.

Outcomes

- Improved understanding of bulk deformation processes.
- Enhanced presentation and communication skills among students.
- Promoted peer-to-peer learning and active participation.
- Encouraged teamwork and responsibility in preparing and delivering technical content.
- Strengthened the ability to analyze and discuss manufacturing concepts.

Student Participation

- Total Students: 27
- Participation Mode: Group Presentations
- Engagement: Students actively discussed, clarified doubts, and provided feedback to their peers.

Relavant PO's :

PO1	PO 3	PO 6	PO 7	PO 8	PO 9	PO 12

GROUP DETAILS AND TITLE OF THE TOPIC

Team No	REGISTER NO	STUDENTS NAME	Topic
1.	312823114001	Akash M P	Forging processes
	312823114002	Akash Ponniah S	
	312823114004	Gowtham M	
	312823114005	Gurumoorthy A	
2.	312823114006	Hariharan K	Rolling
	312823114007	Hariharan M	
	312823114008	Jagadish C	
	312823114009	Jai Kiran G V	
	312823114010	Kalith N	
3.	312823114011	Lokesh D	wire drawing
	312823114013	Mohamed Ali Jinna N	
	312823114014	Mukesh JMB	
	312823114015	Narendhiran D	

	312823114016	Pavin M	
4.	312823114017	Pooja Sree L	Tube drawing
	312823114018	Ragul Gandhi P	
	312823114021	Santhakumar Y	
	312823114023	Sarugesh M	
	312823114024	Sivagiri P	
5.	312823114025	Sujit Kumar Agasti M	Extrusion
	312823114026	Tharunraj R	
	312823114027	Umapathy S	
	312823114028	Vignesh P	
6.	312823114301	Ajay R	shaping operations
	312823114302	Anantharaman N	
	312823114303	Hariharan R	
	312823114304	Prithivi Raj V	

Think–Teach–Learn Cycle Method conducted on 25.10.2024 by Dr.B.Dhanasakkaravarthi for Manufacturing Processes Course

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The valuable feedbacks can be provided in the below link for the above innovative teaching method.

https://docs.google.com/forms/d/1IReOLeouMbwr5aR8iYiBy8lpoP0NNYhGJgG04AA5BtM

Faculty In charge

HoD/Mech