

Lesson Plan

Subject Manufacturing Technology (Code) TH-09 Name of faculty Satyabrata Moharana
 Semester 4th Sem Class allotted 4pm to 6pm Branch Mechanical Engineering
 Session: 2023 (S)

Discipline	Semester	From Date:	To date:	Teaching Aid
Subject:	No. of days/per week	Theory / Practical-topics / Lesson		
Week	Date/Period			
1		Tools materials		white board & marker
	14-02-23 to	Physical properties & uses of such tools material		
	17/02/23	Cutting tools. Cutting action of various cutting tools.		
2		cutting action various tools such as chisel, hansom blade, dies & formers.		"
	20/02/23 to	Turners tools geometry & purpose of tools		
	25/02/23			
3		Machining process parameters classified & dept of cut). Coolant & lubricants on machine & purpose.		H
	27/02/23 to	Lathe m/c construction of lathe m/c & working of CNC lathe m/c.		
	04/03/23	Operation carried out on a lathe		
4		Turning, thread cutting taper turning, Internal m/c, parting off, facing		"
	06/03/23 to	Knowledge, Safety measure dry m/c Capstan lathe m/c		
	11/03/23	Difference betw with respect to engine lathe, major component & their function.		
5		Draw the feeding layout for purpose of hexagonal belt & bush.		"
	13/03/23 to	Shaper potential application areas of Shaper m/c		
	18/03/23	Major component & their function. Explain the construction & working of tools head.		
7		Explain the quick return mechanism planning m/c.		"
	27/03/23 to	Application area of a planner & its difference with respect to shaper.		
	31/03/23			

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Week	Date/Period	Theory /Practical-topics / Lesson	Teaching Aid
8	03/04/23	Major Component Planner m/c.	White Board f Markers
	to 05/04/23	The table drive mechanism Mounting of tools & tool supports. Clamping of work through clatch.	
9	10/04/23	Milling machine.	"
	to 15/04/23	Types of milling m/c & operation. Performed by them & also came free CNC milling m/c. Explain work holding attachment.	
10	17/04/23	Construction & working of single driving head. Universal driver head.	"
	to 21/04/23	Procedure of single & compound Index. Illustration of different Indexing method. Slotted measure component & their function.	
11	24/04/23	Construction & working of slotted m/c. Tooling.	"
	to 29/04/23	Grinding, Significance of grinding operation. Manufacturing of grinding wheel. Criteria for selecting of grinding wheel.	
12	01/05/23	Criteria for selecting of grinding wheel with the Exp: Cylindrical, Surface Centerless.	"
	to 06/05/23	Internal M/c and operation Classification of drilling m/c.	
13	08/05/23	Working of mechanical, Radial & Pillon types Drilling m/c.	"
	to 13/05/23	Boring, principle of Boring & drilling.	
14	15/05/23	Boring.	"
	to 20/05/23	Basic principle of Boring. Difference betw boring & drilling. Boring, Types of pull	
15	22/05/23	Advantages of Boring, Surface Finish, Lapping.	"
	to 23/05/23	Definition of Surface Finish. Dispatch Lapping.	

Satyabrata Mishra
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