

Discipline: Mechanical Engineering		Semester: 4TH		Faculty: RAKESH ROSHAN APATTA SASMITA SAHOO	
Subject: Manufacturing Technology (TH-2)		No of day/week of class allotted: 4 Periods		Semester starts from- 14/02/2023 To23/05/2023	
MONTH	WEEK	AVAILABILITY OF CLASSES	CLASS DAY	THEORY TOPIC TO BE COVERED	
February	1 st	04	15/02/2023	Briefing about the syllabus. Chapter1:Introduction Tool Materials	
			16/02/2023	Chapter3: Lathe Machine Construction and working of lathe and CNC lathe	
			16/02/2023	Major components of a lathe and their function	
			17/02/2023	Composition of various tool materials	
	2 nd	04	22/02/2023	Physical properties & uses of such tool materials.	
			23/02/2023	Operations carried out in a lathe	
			23/02/2023	Safety measures during machining	
			24/02/2023	Chapter2: Cutting Tools Cutting action of various and tools such as Chisel, hacksaw blade, dies and reamer	
March	3 rd	04	01/03/2023	Turning tool geometry and purpose of tool angle	
			02/03/2023	Capstan lathe , Difference with respect to engine lathe	
			02/03/2023	Major components and their function	
			03/03/2023	Machining process parameters	
	4 th	03	09/03/2023	Turret Lathe , Difference with respect to capstan lathe	
			09/03/2023	Major components and their function	
			10/03/2023	Coolants and lubricants in machining and purpose. Previous year question discussion	
	5 th	04	15/03/2023	Chapter4:Shaper Potential application areas of a shaper machine	
			16/03/2023	Draw the tooling layout for preparation of a hexagonal bolt & bush	
			16/03/2023	Draw the tooling layout for preparation of a hexagonal bolt & bush	
			17/03/2023	Major components and their function	
	6 th	04	22/03/2023	Explain the automatic table feed mechanism	
			23/03/2023	Chapter5:Planing Machine Application area of a planer and its difference	
			23/03/2023	Major components and their functions	
24/03/2023			Class Test 01		
7 th	02	29/03/2023	Q/A discussion		
		31/03/2023	Explain the construction & working of tool head		
April	8 th	03	05/04/2023	Explain the quick return mechanism through sketch	
			06/04/2023	The table drive mechanism	
			06/04/2023	Working of tool and tool support	
	9 th	03	12/04/2023	State the specification of a shaping machine.	
			13/04/2023	Clamping of work through sketch	

			13/04/2023	Chapter8: Grinding Operations & Manufacturing of grinding wheels
	10 th	04	19/04/2023	Chapter6: Milling Machine Types of milling machine and its operations
			20/04/2023	Operations & Manufacturing of grinding wheels
			20/04/2023	Criteria for selecting of grinding wheels
			21/04/2023	Types of CNC milling machine and its operations
	11 th	04	26/04/2023	IA
			27/04/2023	IA
			27/04/2023	IA
			28/04/2023	IA
May	12 th	03	03/05/2023	Explain work holding attachment
			04/05/2023	IA Q/A Discussion ,Specification of grinding wheels with example
			04/05/2023	Working of Grinder
	13 th	04	10/05/2023	Construction & working of simple dividing head, universal dividing head
			11/05/2023	Chapter9: Internal Machining operations Classification of drilling machines, Working of drilling machine.
			11/05/2023	Boring: Basic Principle of Boring & Different between Boring and drilling
			12/05/2023	Procedure of simple and compound indexing
	14 th	03	17/05/2023	Illustration of different indexing methods
			18/05/2023	Chapter10: Surface finish, lapping Definition of Surface finish
			18/05/2023	Description of lapping& explain their specific cutting.
	15 th	04	Extra class	Class test 2
			Extra class	Chapter7:Slotter -Major components and their function
			Extra class	Construction and working of slotter machine
			Extra class	Tools used in slotter
			Extra class	PYQ Discussion