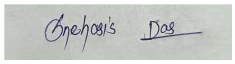
UTKAL INSTITUTE OF ENGINEERING & TECHNOLOGY

DISCIPLINE: MECHANICAL	SEMESTER: 4TH Sem	NAME OF THE TEACHING FACULTY: Er.SARADA SWAIN	
SUBJECT: MANUFACTURING TECHNOLOGY	No of Days/Per week class allotted: 4 Class P/W**(60)**	Semester From Date:16/01/2024 To Date:26/04/2024 No. Of Weeks: **15**	

WEEK	CLASS DAY	THEORY TOPICS	REMARKS	
			Date	Dean/Principal
1st	1st	Composition of various tool materials		
	2nd	Composition of various tool materials		
	3rd	uses of such tool materials.		
	4th	uses of such tool materials.		
2nd	1st	and tools such as Chisel, hacksaw blade, dies and reamer		
	2nd	and tools such as Chisel, hacksaw blade, dies and reamer		
	3rd	and purpose of tool angle		
	4th	Machining process parameters (Speed, feed and depth of cut)		
3rd	1st	in machining and purpose		
	2nd	in machining and purpose		
	3rd	Machine.Construction and working of lathe and CNC lathe Major components ofa lathe and their		
	4th	in a lathe(Turning, thread cutting, taper turning, internal machining, parting off, facing, knurling)		
	5th	reinforced		
4th	1st	over-reinforced and limiting section		
	2nd	neutral axis co-efficient		
	3rd	moment of resistance and limiting percentage of steel required for limiting singly R.C. section		
	4th	Safety measures during machining		
	1st	Difference with respect to engine lathe		

5th	2nd	Major components and their function		
	3rd	Define multiple tool holders		
	4th	Difference with respect to capstan lathe. Major the components and their function		
6th	1st	areas of a shaper machine		
	2nd	reinforcement; Minimum shear reinforcement in beams (Explain through examples only).		
	3rd	Major components and their function		
	4th	Explain the automatic able feed mechanism		
	5th	Explain the construction &working of tool head		
7th	1st	mechanism through sketch		
	2nd	State the specification of a shaping machine.		
	3rd	Application area of a planer and its difference with respect to shaper		
	4th	Major components and their functions		
	5th	The table drive mechanism		
8th	1st	Working of tool and tool support		
	2nd	Clamping of work through sketch.		
	3rd	Doubt Clear Class		
	4th	Doubt Clear Class		
9th	1st	machine and operations performed by them and also same for CNC milling machine		
	2nd	**Doubt Clear Class**		
	3rd	Explain work holding attachment		
	4th	Explain work holding attachment		
10th	1st	Construction & working of simple dividing head, universal dividing head		
	2nd	Procedure of simple and compound indexing		
	3rd	Illustration of different indexing methods		
	4th	Illustration of different indexing methods		
11th	1st	Major components and their function		
	2nd	working of slotter machine		
	3rd	working of slotter machine		
	4th	Tools used in slotter		

12th	1st	Tools used in slotter ASSIGNMENT		
	2nd	Significance of grinding operations		
	3rd	Manufacturing of grinding wheels Manufacturing of grinding wheels		
	4th	Criteria for selecting of grinding wheels		
13th	1st	Specification of grinding wheels with		
	2nd	Surface Grinder Centreless Grinde		
	3rd	Surface Grinder Centreless Grinde		
	4th	Working of Bench drilling machine Pillar drilling machine Radial drilling machine		
14th	1st	Working of Bench drilling machine Pillar drilling machine Radial drilling machine		
	2nd	of Boring Different between Boring and drilling		
	3rd	of Boring Different between Boring and drilling		
	4th	Broaching(pull type, push type) Advantages of Broaching and applications		
15th	1st	Broaching(pull type, push type) Advantages of Broaching and applications		
	2nd	Definition of Surface finish		
	3rd	explain their specific cutting.		
	4th	Doubt Clear Class		



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DEAN

PRINCIPAL