				LESSON PLAN.			
Publication	Manufa	aturina Taahr	alami Sub	Academic Session :- SUMMER 2024 ject code - Th-2 W.E.F : 16/01/24	T. G. D. M.		
Feacher :-	vianuta	CHANDRA SE	Total Period :- 60 per Sem Theory :- 4p/week				
eacher		CHANDINA 3L		(GF, MECHANICAL ENGINEERING DEPT.)	SEMESTER:-4th		
MONTH	Week	CLASS DAY	UNIT NO/PERIOD ALLOTED	Syllabus to be covered	Syllabus actually covered	Short fall	Signature
I		1st	4	1.0 Tool Materials 1.1 Composition of various tool materials.			
	1st	2nd		1.0 Tool Materials 1.1 Composition of various tool materials.			
		3rd		1.2 Physical properties& uses of such tool materials.			
	2nd	4th 1st	- 6	 Physical properties& uses of such tool materials. Cutting Tools 2.1 Cutting action of various and tools such as Chisel, hacksaw blade 			
A N		2nd		2.1 Cutting Tools 2.1 Cutting action of various and tools such as Chisel, hacksaw blade			
U		3rd		2.3 Turning tool geometry and purpose of tool angle			
A R		4th		2.3 Turning tool geometry and purpose of tool angle			
к Y	3rd	1st		2.5 Machining process parameters (Speed, feed and depth of cut)			
		2nd		2.6 Coolants and lubricants in machining and purpose			
		3rd	8	3.0 Lathe Machine 3.1 Construction and working of lathe			
		4th		Major components of a lathe and their function			
	4th	1st		Operations carried out in a lathe(Turning, thread cutting, taper turning, internal machining, parting off, facing, knurling)			
		2nd		Safety measures during machining			
				3.2 Capstan lathe ,Difference with respect to engine lathe, Major			
F E B R U A R Y		3rd		components and their function, Define multiple tool holders			
		4th		3.2 Capstan lathe ,Difference with respect to engine lathe, Major components and their function,Define multiple tool holders			
	5th	1st		3.3 Turret Lathe ,Difference with respect to capstan lathe ,Major components and their function			
		2nd		3.4 Draw the tooling layout for preparation of a hexagonal bolt & bush			
		3rd	6	4.0 Shaper 4.1 Potential application areas of a shaper machine			
		4th		4.2 Major components and their function			
	6th	1st		4.3 Explain the automatic able feed mechanism			
		2nd		4.4 Explain the construction & working of tool head			
		3rd		4.5 Explain the quick return mechanism through sketch			
		4th		4.6 State the specification of a shaping machine.			
	7th	1st	6	5.0 Planning Machine 5.1 Application area of a planer and its difference with respect to shaper			
		2nd		5.1 Application area of a planer and its difference with respect to shaper			
		3rd		5.2 Major components and their functions			
		4th		5.3 The table drive mechanism			
	8th	1st		5.4 Working of tool and tool support			
		2nd		5.5 Clamping of work through sketch.			
		3rd		6.0 Milling Machine			
		4th		6.1 Types of milling machine and operations performed by them and also same for CNC milling machine			
		1st	4	6.2 Explain work holding attachment			

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M A R C H	9th	2nd	8	6.3 Construction & working of simple dividing head		
		3rd		6.3 Construction & working of universal dividing head		
		4th		6.4 Procedure of simple and compound indexing		
		1st		6.5 Illustration of different indexing methods		
		2nd		6.5 Illustration of different indexing methods		
	10th	3rd	6	7.0 Slotter		
		4th		7.1 Major components and their function		
		1st		7.1 Major components and their function		
	11th	2nd		7.2 Construction and working of slotter machine		
		3rd		7.2 Construction and working of slotter machine		
		4th		7.3 Tools used in slotter		
		1st	6	8.0 Grinding 8.1 Significance of grinding operations		
		2nd		8.2 Manufacturing of grinding wheels		
	12th	3rd		8.3 Criteria for selecting of grinding wheels		
		4th		8.4 Specification of grinding wheels with example Working of Cylindrical Grinder		
		1st		8.4 Specification of grinding wheels with example Working of Surface Grinder		
	13th	2nd		8.4 Specification of grinding wheels with example Working of Centreless Grinder		
		3rd	6	9.0 Internal Machining operations Classification of drilling machines		
		4th		9.1 Working of Bench drilling machine		
A P R I L		1st		9.1 Working of Pillar drilling machine		
	14th	2nd		9.1 Working of Radial drilling machine		
		3rd		9.2 Boring Basic Principle of Boring Different between Boring and drilling		
		4th		9.3 Broaching Types of Broaching(pull type, push type) Advantages of Broaching and applications		
	15th -	1st	- 4	10 Surface finish, lapping 10.1 Definition of Surface finish		
		2nd		10 Surface finish, lapping 10.1 Definition of Surface finish		
		3rd		10.2 Description of lapping& explain their specific cutting.		
		4th		10.2 Description of lapping& explain their specific cutting.		

Chandrasekhar Dash