MAHAMAYA INSTITUTE OF MEDICAL AND TECHNICAL SCIENCE, NUAPADA

LESSON PLAN-4TH SEMESTER (2022)

SEMESTER FROM DATE: 10.03.2022 TO 10.06.2022

NUMBER OF WEEKS: 15

SUBJECT - MANUFACTURING TECHNOLOGY (TH-2)

CHAPTER /TOPIC	COURSE TO BE COVERED	CLASSES	REMARKS (IF ANY)
Chapter-1	Tool Materials:	4	
1.1	Composition of various tool materials	2	
1.1	Physical properties& uses of such tool materials.	2	
Chapter -2	Cutting Tools:	6	
2.1	Cutting action of various and tools such as Chisel, hacksaw blade, dies and reamer	2	
2.2	Turning tool geometry and purpose of tool angle	3	
2.3	Machining process parameters (Speed, feed and depth of cut)	1	
2.4	Coolants and lubricants in machining and purpose	1	
Chapter-3	Lathe Machine:	8	
3.1	 Construction and working of lathe and CNC lathe Major components of a lathe and their function Operations carried out in a lathe(Turning, thread cutting, taper turning, internal machining, parting off, facing, knurling) Safety measures during machining 	2	
3.2	 Capstan lathe Difference with respect to engine lathe Major components and their function Define multiple tool holders 	2	
3.3	 Turret Lathe Difference with respect to capstan lathe Major components and their function 	2	
3.4	Draw the tooling layout for preparation of a hexagonal bolt &bush	2	
Chapter-4	Shaper:	6	
4.1	Potential application areas of a shaper machine	1	
4.2	Major components and their function	1	N. P.
4.3	Explain the automatic able feed mechanism	1	
4.4	Explain the construction &working of tool head	1	
4.5	Explain the quick return mechanism through sketch	1	
4.6	State the specification of a shaping machine.	1	
Chapter-5	Planning Machine:	6	
5.1	Application area of a planer and its difference with respect to shaper	1	
5.2	Major components and their functions	1	DOTTO:
5.3	The table drive mechanism	2	

	Cylindrical Grinder		
	example Working of		
8.4	Specification of grinding wheels with		- 1
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8.2	Manufacturing of grinding wheels	2	
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The second second	Broaching		1
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Chapter-10	Surface finish, lapping	4	- 3 - 2 - 3
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	Definition of Surface finish	2	ENG.
10.1	Definition of Surface finish Description of lapping& explain their specific cutting.	2	