

Dicipline: Mech.	Semester: 4th	Name of the Teaching Faculty: Babeta Meher	
Subject: M.T	No of Days/Week Class Allotted: 1	Semester From date: 13/02/23 To date: 23/05/23	No. of Weeks: 15

WEEK	Class Day	Theory Topics
1	1st	Composition of various tool materials.
	2nd	Physical properties of tool material
	3rd	Uses of tool materials
	4th	Cutting action of various tools like chisel, hacksaw blade etc.
	5th	
2	1st	Turning tool geometry
	2nd	Purpose of tool angle in cutting. tool
	3rd	Machining process Parameters
	4th	Coolant & lubricant in machining
	5th	
3	1st	Purpose of use of coolant & lubricant
	2nd	Construction and working of lathe
	3rd	Construction & working of CNC lathe
	4th	Major components of a lathe.
	5th	

WEEK	Class Day	Theory Topics
A	1st	Function of all lathe parts
	2nd	Operations carried out in a lathe
	3rd	details of turning, threading, taper, facing etc.
	4th	Safety measures during machining
	5th	
5	1st	Capstan lathe : details
	2nd	Difference with respect to engine lathe
	3rd	Major components of a capstan lathe
	4th	Function of lathe parts of a capstan lathe
	5th	
6	1st	Define multiple tool holder
	2nd	Difference bet ⁿ capstan lathe & turret lathe
	3rd	Major components of a turret lathe
	4th	Function of turret lathe parts.
	5th	

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WEEK **Class Day** **Theory Topics**

etc.

	1st	Draw the tooling layout of a hexagonal bolt
	2nd	Draw the tooling layout of a hexagonal bush
	3rd	Potential application areas of a shaper m/c
	4th	Major components of a shaper m/c
	5th	

q	1st	Function of all parts of a shaper m/c
	2nd	Explain automatic table feed mechanism
	3rd	Explain the construction & working of tool head
	4th	Explain quick return mechanism
	5th	

q	1st	State application of a shaping m/c
	2nd	State the specification of all parts of a shaper m/c
	3rd	Application area of a planer
	4th	Difference between shaper & planer
	5th	

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 Discipline: Mech
 Subject: M
 WEEK

Theory Topics

WEEK	Class Day	Theory Topics
10	1st	Major components of a Planer
	2nd	Table drive mechanism
	3rd	Working of a tool & tool support
	4th	Clamping of work through sketch
	5th	
11	1st	Types of milling m/c
	2nd	Operation performed by milling m/c
	3rd	Operation performed by CNC milling m/c.
	4th	Explain work holding attachments.
	5th	
12	1st	Construction of simple dividing head, universal head
	2nd	Procedure of simple indexing
	3rd	Procedure of compound indexing
	4th	Different indexing methods.
	5th	

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WEEK	Class Day	Theory Topics
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13	1st	Major components & their function
	2nd	Construction of slotter m/c
	3rd	Working of slotter m/c
	4th	Tools used in slotter
	5th	

14	1st	Significance of grinding operation
	2nd	Manufacturing of grinding wheels
	3rd	Criteria for selection of grinding wheel
	4th	Specification of grinding wheel
	5th	

15	1st	Classification & working of drilling m/c
	2nd	Types & working principle of boring m/c
	3rd	Broaching m/c details & types.
	4th	All types of surface finishing operations
	5th	Satyajam Acharyas