

Discipline -

Semester - 4th

Name of the faculty -

Mechanical

Subject :

No. of days/
week classes - 5

Semester from:

Manufacturing
Technology

Week	Class day	Theory Topics
	1st	Introduction to tool material.
5th April	2nd	Types of tool material
to	3rd	Composition of various tool material
10th April	4th	Physical Properties.
	5th	Uses of such tool material
	1st	Cutting action of various tool
12th April	2nd	Action of chisel, hacksaw blade & dies.
to	3rd	Turning tool geometry
17th April	4th	Make V-suba Sankrant
	5th	Machining process parameters.
	1st	Construction & Working of lathe.
19th April	2nd	Major components of lathe & their function
to		
24th April	3rd	Ram Navami
	4th	Major Operations (Ext Opt - Turning, thread cutting)
	5th	Ext. Operations (Parting-off, facing, forming)
	1st	Int. Operations (Drilling, Boring, Reaming)
26th April	2nd	Safety measures during machining
to	3rd	Introduction of capstan lathe
1st May	4th	Diff b/w Engine, Capstan & turret lathe.
	5th	Major Components.
3rd May	1st	Parts function (Capstan lathe).
to	2nd	Define multiple tool holder
8th May	3rd	Introduction of turret lathe.
	4th	Diff. w.r.t Capstan lathe.
	5th	Discuss the major components.

Week	Class day	Theory Topics
10th May	1st	Components function
10th May	2nd	Review a hexagonal ball
10th May	3rd	Tooling layout for hexagonal balls & bush
10th May	4th	Introduction of shaper m/c.
10th May	5th	Applications of shaper m/c.
11th May	1st	Major components
11th May	2nd	Components function
11th May	3rd	Automatic table, feed mechanism
11th May	4th	Construction of shaper m/c.
11th May	5th	Working of foot head.
24th May	1st	Quick Return Mechanism
24th May	2nd	Specification of a shaper m/c.
24th May	3rd	Intro to Planning m/c.
24th May	4th	Application Area of Planner.
24th May	5th	Diff. w.r.t. J. shaper.
31st May	1st	Major components
31st May	2nd	Parts function.
31st May	3rd	Table Drive Mechanism.
31st May	4th	Working of foot & foot supports.
31st May	5th	Clamping of work.
1st June	1st	Types of milling m/c & operations perform
1st June	2nd	Work holding attachment.
1st June	3rd	Sample & Universal Drilling head.
1st June	4th	Sample & Compound indexing
1st June	5th	Sample Analysis

Week	Class day	Theory Topics
14th June	1st	Introduction of slotter m/c.
14th June	2nd	Major components & their function.
14th June	3rd	Construction & Working
14th June	4th	Tools used on Holder of slotter.
14th June	5th	Page Bankranks
21st June	1st	Introduction of Grinding.
21st June	2nd	Selection criteria of Grinding Wheel
21st June	3rd	Specification of Grinding Wheel.
21st June	4th	Cylindrical, surface & centerless grinder.
21st June	5th	Internal grinding operation.
28th June	1st	Bore drill, Pillar drill
28th June	2nd	Radial drill, Boring operation
28th June	3rd	Diff b/w Boring & Drilling
28th June	4th	Boring operation.
28th June	5th	Surface finish, tapping & explain

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28/06/2021

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