

Discipline	Semester	Name of the teaching Faculty
Mechanical Engg	4th	Sipra Patel
Subject	NO. of Days/Per week	Semester term
MFT	4th	
		NO. of weeks
		17
Week	Class Days	Theory topic
1st	Mon	- Introduction about Manufacturing Technology
	Tue	- Tool materials
	Wed	- Composition of various tool materials Physical properties & uses of tool materials
	Fri	- x
2nd	Mon	- Cutting tools, Cutting action of various & such as chisel, hacksaw blade, dies & reamer
	Tue	
	Wed	- Turning tool geometry & purpose of tool angle
	Fri	x
3rd	Mon	- Machining process parameters (Speed, feed & depth of cut)
	Tue	- Coolants & lubricants in machining & purpose.
	Wed	- Lathe machine, construction & working of lathe & CNC machine.
	Fri	- Major components of a lathe & their functions.

4th

- Mon - operation Carried out in a lathe (Turning, thread cutting, taper turning)
- Tue - Internal machining, Spinning etc, facing, knurling.
- Wed - Safety measures during machining
- Fri - x

5th

- Mon - Capstan lathe
Differ with respect to engine.
- Tue - Lathe.
Major components & their function
- Wed - x
- Fri - x

6th

- Mon - Define multiple tool holder
Turner lathe
- Tue - x
- Wed - Difference with respect to Capstan lathe.
- Fri - x

7th

- Mon - Major components & their functions
- Tue - Draw the tooling layout for preparation of a hexagonal bolt & nut
- Wed - shaper
- Fri - potential application area of a shaper machine

Signature.....

	Mon	x
	Tue	- Major Components & their function
	Wed	- x
8th	Fri	- Explain the automatic table feed mechanism.
	Mon	- Explain the construction & working of tool head
	Tue	- Explain the quick return mechanism through sketch.
	Wed	- State the specification of a shaping machine.
9th	Fri	x
	Mon	- Planning machine
	Tue	- Application area of a planer & its difference with respect to shaper.
10th	Wed	- Major Components & their functions. The table drive mechanism.
	Fri	- x
	Mon	- Working of tool & tool support. - clamping of work through sketch.
	Tue	x
	Wed	- Milling machine
	Fri	- x
11th	Fri	- Types of milling machine & operations performed by them & also same for CNC milling machine

	Mon	- Explain work holding attachment.
	Tue	- Construction & working of simple dividing head.
12th	Wed	- x
	Fri	- x
	Mon	- procedure of simple & Compound Indexing.
	Tue	- Illustration of different indexing methods.
13th	Wed	- Slaten Major components & their functions.
	Fri	- Construction & working of slaten machine.
	Mon	- Tool used in slaten.
	Tue	- Grinding Significance of grinding operation
	Wed	- Manufacturing of grinding wheel
14th	Fri	- Criteria for selecting of grinding wheels. Specification of grinding wheels with example working of cylindrical, surface grinder.
	Mon	- Internal machining operation.
	Tue	- Classification of drilling machine.
	Wed	- Working of Bench drilling machine Pillar drilling machine
15th	Fri	- Radial drilling machine

Signature..... *Spd*

Mon

- Boring

- Basic principle of Boring

Tue

Difference betⁿ boring & drilling.

Wed

- Broaching.

16th

Fri

- Types of broaching (Pull & push type)

Advantages of broaching & application.

- X

Mon

- Surface finish lapping.

Tue

- Definition of surface finish.

17th

Wed

- Description of lapping & explain their specific cutting.

Fri

- X