

ACADEMIC SESSION: 2022-23(SUMMER -2023)

DISCIPLINE:MECHANICAL ENGINEERING		Semester:4TH	Name of the teachingfaculty: SWETAPRNA DASH	
Subject: manufacturing technology		Semester from date:14.02.2023 to 23.05.2023		
SL NO	DATE	CHAPTER	THEORY TOPIC NAME	NO OF PERIODS
1	16/02/2023	Tool Materials	Composition of various tool materials	1
2	17/02/2023		Physical properties& uses of such tool materials.	1
3	20/02/2023	Cutting Tools	Cutting action of various and tools such as Chisel, hacksaw blade, dies and reamer	1
4	23/02/2023		Turning tool geometry and purpose of tool angle	1
5	24/02/2023		Machining process parameters (Speed, feed and depth of cut)	1
6	25/02/2023		Coolants and lubricants in machining and purpose	1
7	27/02/2023	Lathe Machine	Construction and working of lathe and CNC lathe	1
8	02/03/2023		Major components of a lathe and their function	1
9	03/03/2023		Operations carried out in a lathe(Turning, thread cutting, taper turnin	1
10	04/03/2023		internal machining, parting off, facing, knurling)	1
11	06/03/2023		Safety measures during machining	1
12	09/03/2023		Capstan lathe	1
13	10/03/2023		Difference with respect to engine lathe	1
14	11/03/2023		Major components and their function•	1
15	13/03/2023		Define multiple tool holders	1
16	16/03/2023		Turret Lathe	1
17	17/03/2023		Difference with respect to capstan lathe	1
18	18/03/2023		Major components and their function	1
19	20/03/2023		Draw the tooling layout for preparation of a hexagonal bolt &bush	1
20	23/03/2023	Shaper	Potential application areas of a shaper machine	1
21	24/03/2023		Major components and their function	1
22	25/03/2023		Explain the automatic able feed mechanism	1
23	27/03/2023		Explain the construction &working of tool head	1
24	31/03/2023		Explain the quick return mechanism through sketch	1
25	03/04/2023		State the specification of a shaping machine.	1
26	06/04/2023	Planning Machine	Application area of a planer and its difference with respect to shaper	1
27	08/04/2023		Major components and their functions	1
28	10/04/2023		The table drive mechanism	1
29	13/04/2023		Working of tool and tool support	1
30	15/04/2023		Clamping of work through sketch	1
31	17/04/2023	Milling Machine	Types of milling machine and operations performed by them	1
32	20/04/2023		also same for CNC milling machine	1
33	21/04/2023		Explain work holding attachment	1
34	22/04/2023		Construction & working of simple dividing head, universal dividing head	1

35	24/04/2023	Slotter	Procedure of simple and compound indexing	1
36	27/04/2023		Illustration of different indexing methods	1
37	28/04/2023		Major components and their function	1
38	29/04/2023		Construction and working of slotter machine	1
39	01/05/2023		Tools used in slotter	1
40	04/05/2023	Grinding	Significance of grinding operations	1
41	06/05/2023		Manufacturing of grinding wheels	1
42	08/05/2023		Criteria for selecting of grinding wheels 8.4 Specification of grinding wheels	1
43	11/05/2023		example Working of Cylindrical Grinder• Surface Grinder•Centreless Grinder•	1
44	12/05/2023	Internal Machining operations	Working of Bench drilling machine• Pillar drilling machine• Radial drilling machine	1
45	13/05/2023		Boring Basic Principle of Boring• Different between Boring and drilling•	1
46	15/05/2023		Broaching Types of Broaching(pull type, push type)• Advantages of Broaching and application	1
47	18/05/2023	Surface finish, lapping	Definition of Surface finish	1
48	20/05/2023		Description of lapping	1
49	22/05/2023		explain their specific cutting	1

Prepared By
SWETAPARNA DASH
Lect (MECHANICAL)
G P SONEPUR