

GANESH INSTITUTE OF ENGINEERING AND TECHNOLOGY, POLYTECHNIC

DEPARTMENT OF MECHANICAL ENGINEERING

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LESSON PLAN CUM PROGRESS REPORT

SUBJECT: TOOL ENGINEERING		SEMESTER- 4TH	BRANCH: MECHANICAL ENGINEERING		
LECTURE NO.	CO	TOPIC TO BE COVERED	PLAN DATE	ACTION DATE	REVIEW BY HOD
1	co1	Metal Cutting	1/5/2026		
2	co1	Mechanics of Metal cutting	1/6/2026		
3	co1	requirements of tools	1/7/2026		
4	co1	cutting forces; types of chips	1/8/2026		
5	co1	chip thickness ratio; shear angle	1/12/2026		
6	co1	simple numerical	1/13/2026		
7	co1	types of metal cutting process; or- thogonal	1/15/2026		
8	co1	oblique and form cutting	1/19/2026		
9	co1	Cutting fluids: types; characteristics and applications	1/20/2026		
10	co1	Tool wear: Types of wear	1/21/2026		
11	co1	Tool life; Tool life equations	1/22/2026		
12	co1	Doubt clearing class	1/27/2026		
13	co1	Doubt clearing class	1/28/2026		
14	co2	Machinability: definition	1/29/2026		
15	co2	factors affecting machinability	2/2/2026		
16	co2	machinability index	2/3/2026		
17	co2	Tool materials: Types; characteristics	2/4/2026		
18	co2	Tool materials: Types; characteristics: applications	2/5/2026		
19	co2	Heat treatment of tool steels	2/9/2026		
20	co2	Specification of carbide tips	2/10/2026		
21	co2	Types of ceramic coatings	2/11/2026		
22	co2	Cutting Tool Geometry: Single point cutting tool	2/12/2026		
23	co2	drills; reamers; milling; cutters	2/16/2026		
24	co2	Types of dies and construction	2/17/2026		
25	co2	Simple Die; Compound Die	2/18/2026		
26	co2	Progressive Die; Combination Die.	2/19/2026		
27	co2	Punch & Die mountings	2/23/2026		
28	co2	pilots; strippers; misfeed detectors	2/24/2026		
29	co2	Pressure Pads; Knock outs	2/25/2026		

30	co2	stock guide; Feed-Stop	2/26/2026		
31	co2	Doubt clearing class	3/2/2026		
32	co2	Doubt clearing class	3/5/2026		
33	co3	guide bush; guide pins	3/9/2026		
34	co3	Die Design Fundamentals	3/10/2026		
35	co3	Die Operations	3/11/2026		
36	co3	blanking; piercing; shearing	3/12/2026		
37	co3	cropping; notchng; lancing; coining	3/16/2026		
38	co3	embossing; stamping; curling	3/17/2026		
39	co3	drawing; bending; forming	3/18/2026		
40	co3	Die set; Die shoe; Die area	3/19/2026		
41	co3	Calculation of clearances on die and punch for blanking and piercing dies	3/23/2026		
42	co3	Strip layout	3/24/2026		
43	co3	Calculation of material utilization factor	3/25/2026		
44	co3	Doubt clearing class	3/26/2026		
45	co3	Doubt clearing class	3/30/2026		
46	co4	Forming Dies	3/31/2026		
47	co4	Bending methods; Bending Dies	4/2/2026		
48	co4	bend allowance, spring back; spanking	4/6/2026		
49	co4	bending pressure; pressure pads	4/7/2026		
50	co4	development of blank length	4/8/2026		
51	co4	Drawing: operations	4/9/2026		
52	co4	Metal flow during drawing	4/13/2026		
53	co4	Calculation of Drawing blank size	4/15/2026		
54	co4	variables affecting metal flow during drawing	4/16/2026		
55	co4	single action and double action dies	4/20/2026		
56	co4	combination dies	4/21/2026		
57	co4	Fundamentals of other Tools	4/22/2026		
58	co4	Constructional features of - Pressure Die casting dies	4/23/2026		
59	co4	metal extrusion dies; injection molding dies;	4/27/2026		
60	co4	forging dies; plastic extrusion dies.	4/28/2026		
61	co4	Doubt clearing class	4/29/2026		
62	co4	Doubt clearing class	4/30/2026		

