



SYNERGY SCHOOL OF ENGINEERING, DHENKANAL
DEPARTMENT OF MECHANICAL ENGINEERING

LESSION PLAN

SESSION- 2026-2027

SUBJECT	MANUFACTURING ENGINEERING-II LAB	TOTAL PERIODS-	60
BRANCH-	MECHANICAL ENGG	COURSE CODE-	MEPC 309 (PR- 3)
SEMESTER-	5 TH		
NAME-	Biswajit Mishra , Lecturer/ Rajesh Naik, WI	Start Date-	01/07/2026
		End Date-	05/11/2026

Sl No.	week	Day (2 periods/day)	Topic To be Covered
1	1ST	1st day	Introduction to the Manufacturing Engineering Lab
		2nd day	Brief description about the tools & equipment used in the ME Lab-II.
2	2ND	1st day	Drilling three different sized holes in MS plate, maintaining uniform distance between them: Procedure & Demonstration
		2nd day	Drilling three different sized holes in GI plate, maintaining uniform distance between them
3	3RD	1st day	Generation of Spur Gear Teeth on a Round Bar of 40 mm size
		2nd day	Generation of Spur Gear Teeth on a Round Bar of 40 mm size
4	4TH	1st day	Grind external and internal surfaces using a universal grinding machine.
		2nd day	Grind external and internal surfaces using a universal grinding machine.
5	5TH	1st day	Grinding Cutting Tools to different Rake & Relief angle
		2nd day	Grinding Cutting Tools to different Rake & Relief angle
6	6TH	1st day	Grinding Flat Surface on a Surface Grinder Using Magnetic Chuck and Clamping Devices
		2nd day	Grinding Flat Surface on a Surface Grinder Using Magnetic Chuck and Clamping Devices
7	7TH	1st day	Dismantling and Servicing of Drilling Machine Components and Reassembly
		2nd day	Dismantling and Servicing of Drilling Machine Components and Reassembly
8	8TH	1st day	Dismantling of Shaper Head Components
		2nd day	Dismantling of Shaper Head Components
9	9TH	1st day	Servicing of Shaper Head Components and Reassembly
		2nd day	Servicing of Shaper Head Components and Reassembly
10	10TH	1st day	Dismantling of Milling Machine Components
		2nd day	Dismantling of Milling Machine Components
11	11TH	1st day	Servicing of Milling Machine Components and Reassembly
		2nd day	Servicing of Milling Machine Components and Reassembly
12	12TH	1st day	Servicing of Universal Grinding Machine
		2nd day	Servicing of Universal Grinding Machine
13	13TH	1st day	Simple Planning Exercise: Cutting 'T' slots
		2nd day	Simple Planning Exercise: Cutting 'T' slots
14	14TH	1st day	Shaping a Hexagon on a Round Bar, Keyways, Grooves, and Splines.
		2nd day	Shaping a Hexagon on a Round Bar, Keyways, Grooves, and Splines.
15	15TH	1st day	QUIZ TEST
		2nd day	EVALUATION

Rajesh
10/06/26
Sign of Lab Asst.

B
02/06/2026
Sign of Faculty

GP
26/6/26
H.O.D
MECHANICAL ENGG. DEPT.
SSE, Dhenkanal