



SYNERGY SCHOOL OF ENGINEERING, DHENKANAL
DEPARTMENT OF MECHANICAL ENGINEERING

LESSION PLAN

SESSION- 2026-2027

SUBJECT- MANUFACTURING ENGINEERING LAB-I	TOTAL PERIODS-60
BRANCH-MECHANICAL ENGG SEMESTER-3 rd	COURSE CODE- MEPC 211 (PR-1)
NAME-Girish Chandra Swain , Lecturer/ Rajesh Naik, WI	StartDate- 01/07/2026 End Date- 05/11/2026

Sl No.	week	Day (2 periods/day)	Topic To be Covered
1	1ST	1stday	Introduction to manufacturing engineering
		2ndday	Introduction to manufacturing engineering
2	2ND	1stday	Expt-1: Moulding & casting of (i) Connecting rod (ii) Solid bearing
		2ndday	Moulding & casting of (iii) V-Pulley/Gear Pulley
3	3RD	1stday	Expt-2: Arc welding (i) Lap Joint
		2ndday	Arc welding (ii) Butt Joint
4	4TH	1stday	Arc welding (ii) T- Joint
		2ndday	Arc welding (ii) T- Joint
5	5TH	1stday	Expt-3: Gas welding (i) Lap Joint
		2ndday	Gas welding (ii) Butt Joint
6	6TH	1stday	Expt-4: Spot welding (i) Lap Joint
		2ndday	Spot welding (i) Lap Joint
7	7TH	1stday	Expt-5: Turning Exercise (i) Facing, Step Turning & Chamfering (ii) Taper Turning
		2ndday	Step Turning & Groove Cutting (iv) Step Turning & Knurling (v) Step Turning & Thread Cutting
8	8TH	1stday	Expt-6: Grinding the Lathe Cutting tools to the required rake & relief angles
		2ndday	Grinding the Lathe Cutting tools to the required rake & relief angles
9	9TH	1stday	Expt-7: Study of Lathe, Drilling machine
		2ndday	Study of shaping machine and slotting machine
10	10TH	1stday	Expt-8: Dismantling lathe components
		2ndday	Assembling lathe components
11	11TH	1stday	Expt-9: List the faults associated with lathe and its remedies
		2ndday	List the faults associated with lathe and its remedies
12	12TH	1stday	Expt-10: The routine and preventive maintenance procedure for lathe
		2ndday	The routine and preventive maintenance procedure for lathe
13	13TH	1stday	The routine and preventive maintenance procedure for lathe
		2ndday	The routine and preventive maintenance procedure for lathe
14	14TH	1stday	EVALUATION
		2ndday	EVALUATION
15	15TH	1stday	QUIZ TEST
		2ndday	QUIZ TEST

Rajesh
02/06/26
Sign of Lab Asst.

[Signature]
26/6/26
Sign of Faculty

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26/6/26
H.O.D.

MECHANICAL ENGG. DEPT.
SSE, Dhenkanal