

**PNS SCHOOL OF ENGINEERING & TECHNOLOGY, MARSHAGHAI, KENDRAPARA**  
**LESSON PLAN**

Discipline : Mechanical	Semester:3RD	Name of the Teaching Faculty : Er. M.K. PADHIARY & Er. A.C. SAMAL	
Subject : MEL LAB(PR-01)	No. of Days / per week class allotted : 4	Semester From date : 14.07.2025 to Date :15.11.2025 Weeks : 15	No. of
Week	Class Day	Topics	
1st	1st	Moulding & casting of (i) Connecting rod (ii) Solid bearing (iii) V-Pulley/Gear Pulley(GR-A)	
	2nd	Moulding & casting of (i) Connecting rod (ii) Solid bearing (iii) V-Pulley/Gear Pulley(GR-B)	
	3rd	RECORD VERIFICATION(GROUP-A)	
	4th	RECORD VERIFICATION(GROUP-B)	
2nd	1st	Moulding & casting of (i) Connecting rod (ii) Solid bearing (iii) V-Pulley/Gear Pulley(GR-A)	
	2nd	Moulding & casting of (i) Connecting rod (ii) Solid bearing (iii) V-Pulley/Gear Pulley(GR-B)	
	3rd	RECORD VERIFICATION(GROUP-A)	
	4th	RECORD VERIFICATION(GROUP-B)	
3rd	1st	Arc welding (i) Lap Joint (ii) Butt Joint (iii) T- Joint(GR-A)	
	2nd	Arc welding (i) Lap Joint (ii) Butt Joint (iii) T- Joint(GR-B)	
	3rd	RECORD VERIFICATION(GROUP-A)	
	4th	RECORD VERIFICATION(GROUP-B)	
4th	1st	SPOT welding (GR-A)	
	2nd	SPOT welding (GR-B)	
	3rd	RECORD VERIFICATION(GROUP-A)	
	4th	RECORD VERIFICATION(GROUP-B)	
5th	1st	Gas welding (i) Lap Joint (ii) Butt Joint(GR-A)	
	2nd	Gas welding (i) Lap Joint (ii) Butt Joint(GR-B)	
	3rd	RECORD VERIFICATION(GROUP-A)	
	4th	RECORD VERIFICATION(GROUP-B)	
6th	1st	Turning Exercise (i) Facing, Step Turning & Chamfering (ii) Step Turning & Taper Turning(GR-A)	
	2nd	Turning Exercise (i) Facing, Step Turning & Chamfering (ii) Step Turning & Taper Turning(GR-B)	
	3rd	RECORD VERIFICATION (GROUP-A)	
	4th	RECORD VERIFICATION(GROUP-B)	
7th	1st	(iv) Step Turning & & Knurling (v) Step Turning & Thread Cutting(vi) Turning and Drilling(GR-A)	
	2nd	(iv) Step Turning & & Knurling (v) Step Turning & Thread Cutting(vi) Turning and Drilling(GR-B)	
	3rd	RECORD VERIFICATION(GROUP-A)	
	4th	RECORD VERIFICATION(GROUP-B)	
8th	1st	(iv) Step Turning & & Knurling (v) Step Turning & Thread Cutting(vi) Turning and Drilling(GR-A)	
	2nd	(iv) Step Turning & & Knurling (v) Step Turning & Thread Cutting(vi) Turning and Drilling(GR-B)	
	3rd	RECORD VERIFICATION(GROUP-A)	
	4th	RECORD VERIFICATION(GROUP-B)	

9th	1st	Grinding the Lathe Cutting tools to the required angles(GR-A)
	2nd	Grinding the Lathe Cutting tools to the required angles(GR-B)
	3rd	RECORD VERIFICATION(GROUP-A)
	4th	RECORD VERIFICATION(GROUP-B)
10th	1st	Grinding the Lathe Cutting tools to the required angles(GR-A)
	2nd	Grinding the Lathe Cutting tools to the required angles(GR-B)
	3rd	RECORD VERIFICATION(GROUP-A)
	4th	RECORD VERIFICATION(GROUP-B)
11th	1st	Study of Lathe, Drilling machine, shaping machine and slotting machine(GR-A)
	2nd	Study of Lathe, Drilling machine, shaping machine and slotting machine(GR-B)
	3rd	RECORD VERIFICATION(GROUP-A)
	4th	RECORD VERIFICATION(GROUP-B)
12th	1st	Study of Lathe, Drilling machine, shaping machine and slotting machine (GR-A)
	2nd	Study of Lathe, Drilling machine, shaping machine and slotting machine(GR-B)
	3rd	RECORD VERIFICATION(GROUP-A)
	4th	RECORD VERIFICATION(GROUP-B)
13th	1st	The dismantling some of the components of lathe and then assemble the same(GR-A)
	2nd	The dismantling some of the components of lathe and then assemble the same(GR-B)
	3rd	RECORD VERIFICATION(GROUP-A)
	4th	RECORD VERIFICATION(GROUP-B)
14th	1st	List the faults associated with lathe and its remedies(GR-A)
	2nd	List the faults associated with lathe and its remedies(GR-B)
	3rd	RECORD VERIFICATION(GROUP-A)
	4th	RECORD VERIFICATION(GROUP-B)
15th	1st	The routine and preventive maintenance procedure for lathe(GR-A)
	2nd	The routine and preventive maintenance procedure for lathe(GR-B)
	3rd	RECORD VERIFICATION(GROUP-A)
	4th	RECORD VERIFICATION(GROUP-B)

Manas Kumar Podhary  
Ananta Ch. Damal  
Signature of Demonstrator

Signature of H.O.D

Signature of Principal