

PNS SCHOOL OF ENGINEERING & TECHNOLOGY, MARSHAGHAI, KENDRAPARA

LESSON PLAN

Discipline : Mechanical	Semester:4TH	Name of the Teaching Faculty :Er. PRAFULLA KUMAR NAYAK	
SUBJECT : PR-02, TE-II LAB	No. of Days / per week class allotted : 4	Semester From date : 22.12.2025 to Date :18.04.2026 Weeks : 12	
Week	Class Day	Topics	
1st	1st	Study of high-pressure boiler with models(GR-A)(EXPT-01)	
	2nd	Study of high-pressure boiler with model(GR-B)	
	3rd	RECORD VERIFICATION(GROUP-A)	
	4th	RECORD VERIFICATION(GROUP-B)	
2nd	1st	Study of boiler mountings and accessories(GR-A)	
	2nd	Study of boiler mountings and accessories(GR-B)	
	3rd	RECORD VERIFICATION(GROUP-A)	
	4th	RECORD VERIFICATION(GROUP-B)	
3rd	1st	Conduct performance test on VCR test rig to determine COP of the refrigerator (GR-A)	
	2nd	Conduct performance test on VCR test rig to determine COP of the refrigerator (GR-B)	
	3rd	RECORD VERIFICATION(GROUP-A)	
	4th	RECORD VERIFICATION(GROUP-B)	
4th	1st	Conduct performance test on multi stage reciprocating compressor(GR- A)	
	2nd	Conduct performance test on multi stage reciprocating compressor(GR- B)	
	3rd	RECORD VERIFICATION(GROUP-A)	
	4th	RECORD VERIFICATION(GROUP-B)	
5th	1st	Conduct Morse test to determine the indicated power of individual cylinders(GR- A)	
	2nd	Conduct Morse test to determine the indicated power of individual cylinders(GR- B)	
	3rd	RECORD VERIFICATION(GROUP-A)	
	4th	RECORD VERIFICATION(GROUP-B)	
6th	1st	Conduct Performance test on 2-S CI/SI engine.(GR-A)	
	2nd	Conduct Performance test on 2-S CI/SI engine.(GR-B)	
	3rd	RECORD VERIFICATION(GROUP-A)	
	4th	RECORD VERIFICATION(GROUP-B)	
7th	1st	Conduct Performance test on 4-S CI/SI engine.(GR-A)	
	2nd	Conduct Performance test on 4-S CI/SI engine.(GR-B)	
	3rd	RECORD VERIFICATION(GROUP-A)	
	4th	RECORD VERIFICATION(GROUP-B)	

8th	1st	Conduct Heat balance test on CI/SI engine.(GR-A)
	2nd	Conduct Heat balance test on CI/SI engine(GR-B)
	3rd	RECORD VERIFICATION(GROUP-A)
	4th	RECORD VERIFICATION(GROUP-B)
9th	1st	Conduct Economical speed test on 4-S CI/SI engine.(GR-A)
	2nd	Conduct Economical speed test on 4-S CI/SI engine.(GR-B)
	3rd	RECORD VERIFICATION(GROUP-A)
	4th	RECORD VERIFICATION(GROUP-B)
10th	1st	Thermal conductivity test on 1) Thick slab 2) Composite wall 3) Thick cylinder(GR-A)
	2nd	Thermal conductivity test on 1) Thick slab 2) Composite wall 3) Thick cylinder(GR-B)
	3rd	RECORD VERIFICATION(GROUP-A)
	4th	RECORD VERIFICATION(GROUP-B)
11th	1st	Leak detection of refrigeration equipment(GR-A)
	2nd	Leak detection of refrigeration equipment(GR-B)
	3rd	RECORD VERIFICATION(GROUP-A)
	4th	RECORD VERIFICATION(GROUP-B)
12th	1st	Conduct performance test on A/C test rig to determine COP of the
	2nd	Conduct performance test on A/C test rig to determine COP of the
	3rd	RECORD VERIFICATION(GROUP-A)
	4th	RECORD VERIFICATION(GROUP-B)

Signature of Demonstrator

Signature of H.O.D

Signature of Principal