

PNS SCHOOL OF ENGG. & TECH., MARSHAGHAI
DEPARTMENT OF MECHANICAL ENGINEERING LESSON PLAN

BRANCH : MECHANICAL	SEMESTER : 5TH	NAME OF THE TEACHING FACULTY : MR.PRAFULLA KUMAR NAYAK
SUBJECT: (PR-2) HM & IFM Lab	NO. OF DAYS PER WEEK CLASS ALLOTTED : 04	SEMESTER FROM DATE: 14.07.2025 TO 15.11.2025 WEEKS:12
WEEK	CLASS DAY	LAB EXPERIMENTS
1 st	1 st	Performance test on impulse turbine and to find out the efficiency (GR -A)
	2 nd	Performance test on impulse turbine and to find out the efficiency (GR -B)
	3 rd	Record Verification (GR -A)
	4 th	Record Verification (GR -B)
2 nd	1 st	Performance test on kaplan turbine and to find out the efficiency (GR -A)
	2 nd	Performance test on Kaplan turbine and to find out the efficiency (GR -B)
	3 rd	Record Verification (GR -A)
	4 th	Record Verification (GR -B)
3 rd	1 st	Performance test on Francis turbine and to find out the efficiency (GR -A)
	2 nd	Performance test on Francis turbine and to find out the efficiency (GR -B)
	3 rd	RecordVerification (GR -A)
	4 th	RecordVerification (GR -B)
4 th	1 st	Performance test on centrifugal pump and to find out the characteristic curves (GR -A)
	2 nd	Performance test on centrifugal pump and to find out the characteristic curves (GR -B)
	3 rd	RecordVerification (GR -A)
	4 th	RecordVerification (GR -B)
5 th	1 st	Direct operation of single & double acting pneumatic cylinder (GR -A)
	2 nd	Direct operation of single & double acting pneumatic cylinder
	3 rd	Record Verification (GR -A)
	4 th	Record Verification (GR -B)
6 th	1 st	Operating double acting pneumatic cylinder with quick exhaust valve (GR -A)
	2 nd	Operating double acting pneumatic cylinder with quick exhaust valve

7th	3rd	Record Verification (GR -A)
	4th	Record Verification (GR -B)
	1st	Speed control double acting pneumatic cylinder using metering in and metering out circuits (GR -A)
	2nd	Speed control double acting pneumatic cylinder using metering in and metering out circuits (GR -B)
8th	3rd	Record Verification (GR -A)
	4th	Record Verification (GR -B)
	1st	Direct operation of single & double acting hydraulic cylinder (GR -A)
	2nd	Direct operation of single & double acting hydraulic cylinder (GR -B)
9th	3rd	Record Verification (GR -A)
	4th	Record Verification (GR -B)
	1st	Direct operation of hydraulic motor (GR -A)
	2nd	Direct operation of hydraulic motor (GR -B)
10th	3rd	Record Verification (GR -A)
	4th	Record Verification (GR -B)
	1st	Speed control double acting hydraulic cylinder using metering in circuits. (GR -A)
	2nd	Speed control double acting hydraulic cylinder using metering in circuits. (GR -B)
11th	3rd	Record Verification (GR -A)
	4th	Record Verification (GR -B)
	1st	Speed control double acting hydraulic cylinder using metering out circuits (GR -A)
	2nd	Speed control double acting hydraulic cylinder using metering out circuits (GR -B)
12th	3rd	Record Verification (GR -A)
	4th	Record Verification (GR -B)
	1st	Record Verification (GR -A)
	2nd	Record Verification (GR -B)

Signature of
Demonstrator

Signature of H.O.D

Signature of Principal