LESSON PLAN

GOVT. POLYTECHNIC, NAYAGARH

DEPARTMENT OF MECHANICAL ENGINEERING

UBJECT: HM&IFP LAB **Periods:4P/WEEK** **SEMESTER:5th**

AME OF FACULTY: Mr. Himanshu Patra, Lect. (GF)

rom date: 01/07/2024 **To Date:** 08/11/2024 **No. of weeks:** 15

Week	Class Day(2P/day)	Theory / Practical Topics
1st	1st	Performance test on impulse turbine and to find out the efficiency
	2nd	Performance test on impulse turbine and to find out the efficiency
2nd	1st	Performance test on impulse turbine and to find out the efficiency
	2nd	Performance test on Kaplan turbine and to find out the efficiency
3rd	1st	Performance test on Kaplan turbine and to find out the efficiency
	2nd	Performance test on Kaplan turbine and to find out the efficiency
4th	1st	Performance test on Francis turbine and to find out the efficiency
	2nd	Performance test on Francis turbine and to find out the efficiency
5th	1st	Performance test on Francis turbine and to find out the efficiency
	2nd	Performance test on centrifugal pump and to find out the characteristic curves
6th	1st	Performance test on centrifugal pump and to find out the characteristic curves
	2nd	Performance test on centrifugal pump and to find out the characteristic curves
7th	1st	Direct operation of single &double acting pneumatic cylinder
	2nd	Direct operation of single &double acting pneumatic cylinder
8th	1st	Direct operation of single &double acting pneumatic cylinder
	2nd	Operating double acting pneumatic cylinder with quick exhaust valve
9th	1st	Operating double acting pneumatic cylinder with quick exhaust valve
	2nd	Operating double acting pneumatic cylinder with quick exhaust valve
10th	1st	Speed control double acting pneumatic cylinder using metering in and metering out circuits.
	2nd	Speed control double acting pneumatic cylinder using metering in and metering out circuits.
11th	1st	Speed control double acting pneumatic cylinder using metering in and metering out circuits.
	2nd	Direct operation of single &double acting hydraulic cylinder
12th	1st	Direct operation of single &double acting hydraulic cylinder

	2nd	Direct operation of single &double acting hydraulic cylinder
13th	1st	Direct operation of hydraulic motor
	2nd	Direct operation of hydraulic motor
14th	1st	Direct operation of hydraulic motor
	2nd	Speed control double acting hydraulic cylinder using metering in & metering out circuits.
15th	1st	Speed control double acting hydraulic cylinder using metering in & metering out circuits.
	2nd	Speed control double acting hydraulic cylinder using metering in & metering out circuits.

Himanshu Pathy
AE, (Mech)