

5TH SEMESTER MECHANICAL ENGINEERING (2023-24)

SUBJECTS – HYDRAULIC MACHINES & INDUSTRIAL FLUID POWER LAB

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SL NO.	WEEK	DAY	TOPICS TO BE COVERED
1.	1 st	1 st	Performance test on impulse turbine and to find out the efficiency
		2 nd	Performance test on impulse turbine and to find out the efficiency
2.	2 nd	1 st	Performance test on impulse turbine and to find out the efficiency
		2 nd	Performance test on Kaplan turbine and to find out the efficiency
3.	3 rd	1 st	Performance test on Kaplan turbine and to find out the efficiency
		2 nd	Performance test on Kaplan turbine and to find out the efficiency
4.	4 th	1 st	Performance test on Francis turbine and to find out the efficiency
		2 nd	Performance test on Francis turbine and to find out the efficiency
5.	5 th	1 st	Performance test on Francis turbine and to find out the efficiency
		2 nd	Performance test on centrifugal pump and to find out the characteristic curves
6.	6 th	1 st	Performance test on centrifugal pump and to find out the characteristic curves
		2 nd	Performance test on centrifugal pump and to find out the characteristic curves
7.	7 th	1 st	Direct operation of single and double acting pneumatic cylinder.
		2 nd	Direct operation of single and double acting pneumatic cylinder
8.	8 th	1 st	Direct operation of single and double acting pneumatic cylinder
		2 nd	Operating double acting pneumatic cylinder with quick exhaust valve
9.	9 th	1 st	Operating double acting pneumatic cylinder with quick exhaust valve
		2 nd	Operating double acting pneumatic cylinder with quick exhaust valve
10.	10 th	1 st	Speed control double acting pneumatic cylinder using metering in and metering out circuits
		2 nd	Speed control double acting pneumatic cylinder using

11.	11th	1 st	Speed control double acting pneumatic cylinder using metering in and metering out circuits.
		2 nd	Direct operation of single & double acting hydraulic cylinder
12.	12th	1 st	Direct operation of single & double acting hydraulic cylinder
		2 nd	Direct operation of single & double acting hydraulic cylinder
13.	13th	1 st	Direct operation of hydraulic motor
		2 nd	Direct operation of hydraulic motor
14.	14th	1 st	Direct operation of hydraulic motor
		2 nd	Speed control double acting hydraulic cylinder using metering in & metering out circuits
15.	15th	1 st	Speed control double acting hydraulic cylinder using metering in & metering out circuits
		2 nd	Speed control double acting hydraulic cylinder using metering in & metering out circuits