

JHARSUGUDA ENGINEERING SCHOOL, JHARSUGUDA

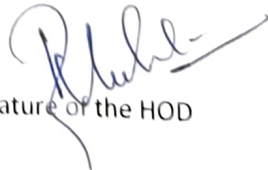
MECHANICAL ENGG. DEPARTMENT

Name of the Faculty:	Session: 2022-23
Course code.: Pr	Course NAME - HYDRAULIC MACHINES & INDUSTRIAL FLUID POWER LAB
Program: Diploma	Department: Mechanical Engg. Deptt.
Semester: 5TH	Section: M1, M2
Branch: MECHANICAL ENGG	

WEEK	Unit	Hours	Practicals to be Covered
1	Practical-1	4	Performance test on impulse turbine and to find out the efficiency
2	Practical-1	2	Performance test on impulse turbine and to find out the efficiency
	practical 2	2	Performance test on Kaplan turbine and to find out the efficiency
3	practical 2	4	Performance test on Kaplan turbine and to find out the efficiency
4	practical 3	4	Performance test on Francis turbine and to find out the efficiency
5	practical 3	2	Performance test on Francis turbine and to find out the efficiency
	practical 4	2	Performance test on centrifugal pump and to find out the characteristic curves
6	practical 4	4	Performance test on centrifugal pump and to find out the characteristic curves
7	practical 5	4	Direct operation of single & double acting pneumatic cylinder.
8	practical 5	2	Direct operation of single & double acting pneumatic cylinder.
	practical 6	2	Operating double acting pneumatic cylinder with quick exhaust valve
9	practical 6	4	Operating double acting pneumatic cylinder with quick exhaust valve
10	practical 7	4	Speed control double acting pneumatic cylinder using metering in and metering out circuits
11	practical 7	2	Speed control double acting hydraulic cylinder using metering in & metering out circuits.
	practical 8	2	Direct operation of single & double acting hydraulic cylinder
12	practical 8	4	Direct operation of single & double acting hydraulic cylinder
13	practical 9	4	Direct operation of hydraulic motor
	practical 9	2	Direct operation of hydraulic motor
14	practical 10	2	Speed control double acting hydraulic cylinder using metering in & metering out circuits.
15	practical 10	4	Speed control double acting hydraulic cylinder using metering in & metering out circuits.



Signature of the Faculty



Signature of the HOD