

## GOVERNMENT POLYTECHNIC, NABARANGPUR DEPARTMENT OF MECHANICAL ENGINEERING

arrive for Technology		
Discipline: MECHANICAL ENGG	Semester: 5 <sup>TH</sup>	Name of the Teaching Faculty: DEEPAK RANJAN PATTNAIK
Subject: HYDRAULIC MACHINES &INDUSTRIAL FLUID POWER LAB	No. of days/per week class allotted: 04	Semester From date: 1.08.2023 To Date:  No. of Weeks: 15
COURSE	CO.1: Condu	ducting performance test on impulse and reaction turbines.  cting Performance test on centrifugal pump

OUTCOMES

C0.2:Conducting Performance test on centrifugal pump
Co.3: Designing and operating pneumatic circuits
CO.4:Designing and operating industrial fluid power circuits.

WEEK	CLASS	THEORY/TOPIC
181	1	1.0 Performance test on impulse turbine and to find out the efficiency
	2	i a p c test on impulse turbine and to find out the circles.
2 <sup>ND</sup>	1	1.0 Performance test on impulse turbine and to find out the effective
	2	RECORD SUBMISSION & SESSIONAL
3 <sup>RD</sup>	1	2.0 Performance test on Kaplan turbine and to find out the efficiency
	2	2.0 Performance test on Kaplan turbine and to find out the efficiency
4 <sup>TH</sup>	1	DECORD SURMISSION & SESSIONAL
27:	2	2.0 P. Commanda test on Francis turbine & to find out the efficiency
5 <sup>TH</sup>	1	2.0 Descendance test on Francis turbine &to find out the efficiency
	2	3.0 Performance test on Francis turbine & to find out the efficiency
6 <sup>TH</sup>	1	DECORD SUBMISSION & SESSIONAL
	2	4.0 Performance test on centrifugal pump and to find out the
7 <sup>тн</sup>	1	4.0 Performance test on centrifugal pump and to find out the characteristic curves
	2	DECORD SUBMISSION & SESSIONAL
тн	1	5.0 Direct operation of single & double acting pneumatic cylinder
8	2	5.0 Direct operation of single & double acting pneumatic cylinder
тн	1	5.0 Direct operation of single & double acting pneumatic cylinder
,	2	RECORD SUBMISSION & SESSIONAL
0 <sup>TH</sup>	1	6.0 Operating double acting Pneumatic cylinder with quick exhaust valve
U	2	6.0 Operating double acting Pneumatic cylinder with quick exhaust valve
1 <sup>TH</sup>	1	6.0 Operating double acting Pneumatic cylinder with quick exhaust valv
	2	RECORD SUBMISSION & SESSIONAL

12711	1	7.0 Speed control double acting pneumatic cylinder using metering in and metering out circuits 7.0 Speed control double acting pneumatic cylinder using metering in the precision out circuits
	2	7.0 Speed control double acting phedinant cylinder and metering out circuits
13тн	1	The action of single exhounce acting
	2	8.0 Direct operation of single &double acting hydraune 57
14 <sup>TH</sup>	1	9.0 Direct operation of Hydraulic motor
	2	0.0 Diseast operation of Hydraulic motor
15 <sup>TH</sup>	1	10.0 Speed control double acting hydraulic cylinder using metering in & metering out circuits
	2	FINAL RECORD SUBMISSION

Deepar ranjon pattner, sign. Of Faculty concerned

Academic coordinates II 123

Principal of Valuations III 723