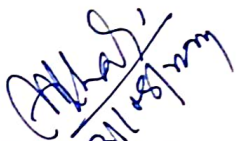




**GOVERNMENT POLYTECHNIC,
NABARANGPUR DEPARTMENT OF
MECHANICAL ENGINEERING**

Discipline: Mechanical engineering	Semester: 5th	Name of the Teaching Faculty: Er. Deepak Ranjan Pattnaik
Subject: HM & IFP LAB	No. of days/per week class allotted: 4	Semester From date: 16.08.2024 To Date: 08.11.2024 No. of Weeks: 12
Week	Class Day	Theory/Practical Topics
1st	1-2	1.0 Performance test on impulse turbine and to find out the efficiency (contd...)
	3-4	2.0 Performance test on Kaplan turbine and to find out the efficiency
2nd	5-6	2.0 Performance test on Kaplan turbine and to find out the efficiency
	7-8	3.0 Performance test on Francis turbine and to find out the efficiency (contd...)
3rd	9-10	3.0 Performance test on Francis turbine and to find out the efficiency
	11-12	4.0 Performance test on centrifugal pump and to find out the characteristic curves
4th	13-14	4.0 Performance test on centrifugal pump and to find out the characteristic curves (contd...)
	15-16	5.0 Direct operation of single & double acting pneumatic cylinder.
5th	17-18	5.0 Direct operation of single & double acting pneumatic cylinder.
	19-20	6.0 Operating double acting pneumatic cylinder with quick exhaust valve (contd...)
6th	21-22	6.0 Operating double acting pneumatic cylinder with quick exhaust valve (contd...)
	23-24	6.0 Operating double acting pneumatic cylinder with quick exhaust valve
7th	25-26	7.0 Speed control double acting pneumatic cylinder using metering in and metering out circuits. (contd...)
	27-28	7.0 Speed control double acting pneumatic cylinder using metering in and metering out circuits.
8th	29-30	7.0 Speed control double acting pneumatic cylinder using metering in and metering out circuits.

	31-32	8.0 Direct operation of single & double acting hydraulic cylinder (contd...)
9 th	33-34	8.0 Direct operation of single & double acting hydraulic cylinder (contd...)
	35-36	8.0 Direct operation of single & double acting hydraulic cylinder
10 th	37-38	9.0 Direct operation of hydraulic motor (contd...)
	39-40	9.0 Direct operation of hydraulic motor (contd...)
11 th	41-42	9.0 Direct operation of hydraulic motor
	43-44	10.0 Speed control double acting hydraulic cylinder using metering in & metering out circuits. (contd...)
12 th	45-46	10.0 Speed control double acting hydraulic cylinder using metering in & metering out circuits. (contd...)
	47-48	10.0 Speed control double acting hydraulic cylinder using metering in & metering out circuits.


Sign. Of HOD I/C

Deepak Ranjan Parthasarathy.
Sign. Of Faculty
concerned 16.08.2024


Academic coordinator
21/08/24


Principal 16.08.24