UTKAL GOURAV MADHUSUDAN INSTITUTE OF TECHNOLOGY, RAYAGADA Academic Lesson Plan for Winter Semester- 2022

Name of the Teaching Faculty: Er. Saroj Kumar Sahu Department: Mechanical Engineering

Semester: 5th Subject: HYDRAULIC MACHINES &INDUSTRIAL FLUID

POWER LAB

No. of Periods per Week: 4 Total Periods: 60 End Semester Exam: 50 Sessional: 25 Total Marks: 75 Practical - 2

SI. No.	Week	Period	Topic to be covered
1.	1 st	1 st	Performance test on impulse turbine and to find out the efficiency
2.		2 nd	Do
3.		3 rd	Do
4.		4 th	Do
5.	2 nd	1 st	Do
6.		2 nd	Do
7.		3 rd	Do
8.		4 th	Do
9.	3 rd	1 st	Performance test on Kaplan turbine and to find out the efficiency
10.		2 nd	Do
11.		3 rd	Do
12.		4 th	Do
13.	4 th	1 st	Do
14.		2 nd	Do
15.		3 rd	Do
16.		4 th	Do
17.	5 th	1 st	Performance test on Francis turbine and to find out the efficiency
18.		2 nd	Do
19.		3 rd	Do
20.		4 th	Do
21.	6 th	1 st	Do
22.		2 nd	Do
23.		3 rd	Do
24.		4 th	Do
25.	7 th	1 st	Performance test on centrifugal pump and to find out the characteristic curves
26.		2 nd	Do
27.		3 rd	Do
28.		4 th	Do
29.	8 th	1 st	Do

30.		2 nd	Do
31.		3 rd	Direct operation of single &double acting pneumatic cylinder.
32.		4 th	Do
33.	9 th	1 st	Do
34.		2 nd	Do
35.		3 rd	Do
36.		4 th	Do
37.		1 st	Operating double acting pneumatic cylinder with quick exhaust valve
38.	10 th	2 nd	Do
39.		3 rd	Do
40.		4 th	Do
41.		1 st	Do
42.		2 nd	Do
43.	11 th	3 rd	Speed control double acting pneumatic cylinder using metering in and metering out circuits.
44.		4 th	Do
45.		1 st	Do
46.		2 nd	Do
47.	12 th	3 rd	Direct operation of single &double acting hydraulic cylinder
48.		4 th	Do
49.		1 st	Do
50.		2 nd	Do
51.	13 th	3 rd	Direct operation of hydraulic motor
52.		4 th	Do
53.		1 st	Do
54.		2 nd	Do
55.	14 th	3 rd	Speed control double acting hydraulic cylinder using metering in & metering out circuits.
56.		4 th	Do
57.	15 th	1 st	Do
58.		2 nd	Do
59.		3 rd	Do
60.		4 th	Do

The above lesson plan prepared by the concerned faculty.

Er. Saroj Kumar Sahu

LECTURE, MECHANICAL DEPARTMENT