

**UTKAL GOURAV MADHUSUDAN INSTITUTE OF TECHNOLOGY, RAYAGADA**

**Academic Lesson Plan for Winter semester- 2022**

**Name of the teaching faculty: Er.RajendraMohanty    Department: Mechanical Engineering**

**Semester: 3<sup>rd</sup> Subject: MECHANICAL ENGINEERING LABORATORY**

**No. of periods per week:3                      Total Periods: 45**

**End semester exam: 50                      Sessional: 25**

**Total Marks:75**

Sl. No.	Week	Period	Topic to be covered
1.	1 <sup>st</sup>	1 <sup>st</sup>	Determination of M.A.,V.R. and efficiency of Screw Jack
2.		2 <sup>nd</sup>	Do
3.		3 <sup>rd</sup>	Do
4.		4 <sup>th</sup>	Determination of Young's modulus by Searle's Apparatus
5.	2 <sup>nd</sup>	1 <sup>st</sup>	Do
6.		2 <sup>nd</sup>	Do
7.		3 <sup>rd</sup>	Study of Universal Testing Machine and
8.		4 <sup>th</sup>	Do
9.	3 <sup>rd</sup>	1 <sup>st</sup>	Do
10.		2 <sup>nd</sup>	Study of Cochran Boiler
11.		3 <sup>rd</sup>	Do
12.		4 <sup>th</sup>	Do
13.	4 <sup>th</sup>	1 <sup>st</sup>	Study and demonstration of Stream Engine
14.		2 <sup>nd</sup>	Do
15.		3 <sup>rd</sup>	Do
16.		4 <sup>th</sup>	Study and demonstration of Diesel Engine
17.	5 <sup>th</sup>	1 <sup>st</sup>	Do
18.		2 <sup>nd</sup>	Do
19.		3 <sup>rd</sup>	Study and demonstration of Petrol Engine
20.		4 <sup>th</sup>	Do
21.	6 <sup>th</sup>	1 <sup>st</sup>	Do
22.		2 <sup>nd</sup>	Model study of Centrifugal pumps,
23.		3 <sup>rd</sup>	Do
24.		4 <sup>th</sup>	Do
25.	7 <sup>th</sup>	1 <sup>st</sup>	Francis Turbine, Kaplan turbine and Pelton wheel.
26.		2 <sup>nd</sup>	Do
27.		3 <sup>rd</sup>	Do

28.		4 <sup>th</sup>	Study of pressure measuring devices
29.	8 <sup>th</sup>	1 <sup>st</sup>	Do
30.		2 <sup>nd</sup>	Do
31.		3 <sup>rd</sup>	Study of venturi-meter
32.		4 <sup>th</sup>	Do
33.	9 <sup>th</sup>	1 <sup>st</sup>	Do
34.		2 <sup>nd</sup>	Verification of Bernouli's Theorem
35.		3 <sup>rd</sup>	Do
36.		4 <sup>th</sup>	Do
37.	10 <sup>th</sup>	1 <sup>st</sup>	Determination of Bending stress in beam using strain gauge
38.		2 <sup>nd</sup>	Do
39.		3 <sup>rd</sup>	Do
40.		4 <sup>th</sup>	Determination of M.A.,V.R. and efficiency of wheel train
41.	11 <sup>th</sup>	1 <sup>st</sup>	Do
42.		2 <sup>nd</sup>	Do
43.		3 <sup>rd</sup>	Determination of friction co-efficient of bearing
44.		4 <sup>th</sup>	Do
45.	12 <sup>th</sup>	1 <sup>st</sup>	Do

**The lesson plan prepared by the concerned faculty**

**Er.RajendraMohanty**

**PTGF, MECHANICAL DEPARTMENT**

