

UTKAL GOURAV MADHUSUDAN INSTITUTE OF TECHNOLOGY, RAYAGADA**Academic Lesson Plan for 1st Semester – 2024 (Winter)**

Name of the teaching faculty : Sri Umesh Chandra Sethi,
Guest Faculty (Electrical)

Discipline : Civil & Mechanical

Dept. : Department of Mathematics & Science

Semester : 1st

Subject : PR 4(a): Fundamentals of Electrical & Electronics Engineering Lab

No of Periods per Week: 2,

Total Periods: 30,

Sessional: 25 Marks,

Total Marks: 25 Marks

Week	Period	Experiment No	Experiment
1 st	1 st	EXPT-1	Determination of the permeability of magnetic material by plotting its B-H curve.
	2 nd	EXPT-1	Determination of the permeability of magnetic material by plotting its B-H curve.
2 nd	1 st	EXPT-2	Measure voltage, current and power in 1-phase circuit with resistive load.
	2 nd	EXPT-2	Measure voltage, current and power in 1-phase circuit with resistive load.
3 rd	1 st	EXPT-3	Measure voltage, current and power in R-L series circuit.
	2 nd	EXPT-3	Measure voltage, current and power in R-L series circuit.
4 th	1 st	EXPT-4	Determine the transformation ratio(K)of 1-phase transformer
	2 nd	EXPT-4	Determine the transformation ratio(K)of 1-phase transformer.
5 th	1 st	EXPT-5	Connect single phase transformer and measure input and output quantities.
	2 nd	EXPT-5	Connect single phase transformer and measure input and output quantities.

6th	1st	EXPT-6	Make Star & Delta connection in starter to run induction motor.
	2nd	EXPT-6	Make Star & Delta connection in starter to run induction motor.

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