

ELECTICAL ENGINEERING PRACTICE		L	T	P	C
15EE102L	Total Contact Hours - 30	0	0	2	1
	Prerequisite				
	Nil				
PURPOSE					
To provide exposure to the students with hands on experience on various Electrical Engineering practices.					
INSTRUCTIONAL OBJECTIVES					
At the end of the course students will be able					
1.	To learn the residential wiring and various types of wiring.				
2.	To measure the various electrical quantities.				
3.	To gain knowledge about the fundamentals of various electrical gadgets and their working and trouble shooting of them.				
4.	To design a prototype of a transformer.				
5.	To know the necessity and types of earthing and measurement of earth resistance.				

LIST OF EXPERIMENTS

1. Residential wiring (using Energy meter, fuses, switches, indicator, lamps, etc)
2. Types of wiring (fluorescent lamp wiring, staircase wiring, godown wiring, etc)
3. Measurement of electrical quantities (like voltage, current, power, power factor in RLC circuits)
4. Measurement of energy (using single phase and three phase energy meter)
5. Study of Earthing and Measurement of Earth resistance.
6. Study of trouble shooting of electrical equipments (fan, iron box, mixer-grinder, etc)
7. Study of various electrical gadgets (Induction motor, transformer, CFL, LED, PV cell, etc)
8. Assembly of choke or small transformer.

REFERENCES

1. Subhransu Sekhar Dash & K.Vijayakumar, “*Electrical Engineering Practice Lab Manual*”. Vijay Nicole Imprints Private Ltd., First Edition, 2013.
2. Jeyachandran.K, Natarajan.S and Balasubramanian.S, “ *A Primer on engineering practices laboratory*”, Anuradha Publications, 2007.
3. Jeyapooan.T, Saravanapandian.M and Pranitha.S, “*Engineering practices lab manual*”, Vikas Publishing House Pvt., Ltd., 2006.

15EE102L- ELECTRICAL ENGINEERING PRACTICE

Course designed by		Department of Electrical and Electronics Engineering										
1.	Student outcomes	a	b	c	d	e	f	g	h	i	j	k
		x	x	x								
2.	Mapping of instructional objectives with student outcome	1-5	2,5	4								
3.	Category	General (G)	Basic Sciences (B)		Engineering Sciences and Technical Arts(E)				Professional Subjects(P)			
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4.	Approval											