Course Number and Name

BEE2L1 - BASIC ELECTRICAL AND ELECTRONIC ENGINEERING PRACTICES LABORATORY

Credits and Contact Hours

1 & 45

Course Coordinator's Name

Ms Sheryl

Text Books and References

Course Description

- To enhance the student with knowledge on electrical and electronic equipments.

Prerequisites	Co-requisites
NIL	Basic Electrical and Electronics Engineering

required, elective, or selected elective (as per Table 5-1)

Course Outcomes (COs)

CO1	Students will able to handle basic electrical equipments.
CO2	Students will able to do staircase wiring.
CO3	Students will able to understand domestic wiring procedures practically.
CO4	Student will able to assemble electronic systems.
CO5	Students will understand all the fundamental concepts involving electrical engineering
CO6	Students will understand all the fundamental concepts involving electronics engineering

Student Outcomes (SOs) from Criterion 3 covered by this Course

COs/SOs	a	b	c	d	e	f	g	h	i	j	k
CO1	M	H	M			L		L	L	M	H
CO2		H	M			L		L	L		H
CO3		H	M			L		L			H
CO4	M	H	M			L		L	L	M	H
CO5	M	H	M			L		L		M	H
CO6		H				L		L	H		H

List of Topics Covered

I LIST OF EXPERIMENTS FOR ELECTRICAL ENGINEERING LAB

1. Fluorescent lamp wiring
2. Stair case wiring
3. Measurement of electrical quantities-voltage current, power & power factor in RLC circuit
4. Residential house wiring using fuse, switch, indicator, lamp and energy meter
5. Measurement of energy using single phase energy meter
6. Measurement of resistance to earth of electrical equipment

II LIST OF EXPERIMENTS FOR ELECTRONICS ENGINEERING LAB

1. Study of electronic components and equipments.
   a. Resistor colour coding using digital multi-meter.
   b. Assembling electronic components on bread board.
2. Measurement of ac signal parameters using cathode ray oscilloscope and function generator.
3. Soldering and desoldering practice.
4. Verification of logic gates (OR, AND, OR, NOT, NAND, EX-OR).
5. Implementation of half adder circuit using logic gates.