Course Number and Name
BEE1L1 - BASIC ELECTRICAL AND ELECTRONICS ENGINEERING PRACTICES LABORATORY

Credits and Contact Hours
1 & 45

Course Coordinator’s Name
Ms Sheryl

Text Books and References
Lab Manual

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

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<th>Prerequisites</th>
<th>Co-requisites</th>
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<td>+2 Level Physics</td>
<td>Basic Electrical and Electronics Engineering required, elective, or selected elective (as per Table 5-1)</td>
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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

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List of Topics Covered

LIST OF EXPERIMENTS

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 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.
3. Soldering and desoldering practice.
4. Verification of logic gates (OR, AND, OR, NOT, NAND, EX-OR).