

Course code	Course Title	L	T	P	C
BEEE102P	Basic Electrical and Electronics Engineering Lab	0	0	2	1
Pre-requisite	Nil	Syllabus version			
		1.0			
Course Objective					
1. Design and solve the fundamental electrical and electronics circuits					
Course Outcomes					
1. Identify appropriate method of solving the fundamental electrical and electronics circuits					
2. Design and conduct experiments on electrical and electronics circuits					
Experiments (Indicative)					
1	Verification of Kirchoff's law				
2	Verification of Maximum Power Transfer Theorem				
3	Staircase wiring circuit layout for multi storage building				
4	Lamp dimmer circuit (Darlington pair circuit using transistors) used in cars.				
5	Measurement of Earth resistance using Megger				
6	Sinusoidal steady state response of RLC circuits				
7	Three phase power measurement for ac loads				
8	Design of half-adder and full-adder digital circuits				
9	Synthesis of 8x1 multiplexer and 1x8 de-multiplexers				
10	Characteristics of PN diode and acts as switch				
11	Realization of single-phase rectifier				
12	Design of regulated power supply using Zener diode.				
13	Characteristics of MOSFET				
14	Characteristics of BJT				
15	Measurement of energy using single-phase energy meter				
16	Measurement of power in a 1-phase circuit by using CTs and PTs				
Total Laboratory Hours				30 hours	
Mode of assessment: Continuous assessment, FAT					
Recommended by Board of Studies		28-05-2022			
Approved by Academic Council		No. 67	Date	08-08-2022	