

Branch Name:	Electrical Engineering
Program Code:	ET109
Course Name:	WORKSHOP
Course Code:	1ET1000116
Pre-requisite Course:	None

Course Objectives:

1. Workshop practice is the significant component in engineering education.
2. This course aim to develop and enhance relevant technical hand skills required by engineering under graduate students.
3. This course intends to impart basic know-how of various tools/equipment's/instruments and their usage in different sections of engineering.
4. Workshop curricula build the hands on experiences which would help to learn various courses in successive semesters.

Teaching and Examination Scheme:

Teaching Scheme (Hours per week)				Evaluation Scheme (Marks)								
Lecture	Tutorial	Practical	Credit	Theory				Practical				Total
				University Assessment		Continuous Assessment		University Assessment		Continuous Assessment		
				Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	
-	-	2	1	-	-	-	-	-	-	08	20	20

Course Contents			
Sr. No	Topic	Total Hours	Weight (%)
Section-A			
1	Understanding Computer Components & Peripherals along with their installations	3	8
2	Understanding networking devices and peripherals	3	8
3	Understanding Internet, Email and Social media	3	9
4	Understanding office automation tools	3	9
Section-B			
5	Introduction to basic electronic components	3	8
6	Introduction to CAD tools	3	8
7	Soldering practice	3	8
8	Case study: Small working model	3	9
Section-C			
9	Measurements of various electrical quantities	3	8
10	Introduction to circuit simulation tools	3	8
11	Wiring of Switch, MCB & ELCB for a given load circuit	3	8
12	Wiring off an, tube light & two-way control (staircase wiring)	3	9

LAB/Practical:

Various experimentations/hands-on sessions, are to be carried out in consistency with the course contents mentioned above.

Course Learning Outcomes (CLO): On completion of this course, the students will be able to:

CLO	Description	Bloom's Taxonomy Level
CLO1	Recognize and comprehend significance of various computer components	1 Remembering 2 Understanding
CLO2	Recognize and comprehend significance of various Electrical components	1 Remembering 2 Understanding
CLO3	Recognize and comprehend significance of various Electronics components	1 Remembering 2 Understanding
CLO4	Understand basic construction and operation of various laboratory equipments	2 Understanding 3 Applying
CLO5	Assemble the different parts of Computer and creating bootable device and installation and maintenance	3 Applying 4 Analyze 5 Evaluate 6 Creating
CLO6	Understand the electrical circuit and wiring of switch, MCB, ELCB	3 Applying 4 Analyze 5 Evaluate 6 Creating

Mapping of CLOs with POs & PSOs:

Course Learning Outcomes	Program Outcomes(POs)												Program Specific Outcomes (PSOs)			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
CLO1	H		M	L					H				M		M	
CLO2	H		M	L					H				M		M	
CLO3	H		M	L					H				M		M	
CLO4	H			H					M				H	M	M	M
CLO5	H		H	M	H	H			H				H	H	H	M
CLO6	H		H	M	H	H			H				H	H	H	M

H: High, M: Medium, L: Low