Basic Workshop

Course Code	19ES1253	Year	I	Semester	II
Course Category	Engineering Sciences	Branch	EEE	Course Type	Lab
Credits	1.5	L-T-P	0-0-3	Prerequisites	Nil
Continuous Internal Evaluation:	25	Semester End Evaluation:	50	Total Marks:	75

Course Outcomes	
Upon successful completion of the course, the student will be able to	
CO1	Apply wood working skills in real world applications
CO2	Build different parts with metal sheets in real world applications.
CO3	Apply fitting operations in various applications.
CO4	Apply different types of basic electric circuit connections and demonstrate soldering.

Contribution of Course Outcomes towards achievement of Program Outcomes & Strength of correlations (H:High, M: Medium, L:Low)														
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	H					L			H		L		L	
CO2	H					L			H		L		L	
CO3	H					L			H		L		L	
CO4	H					L			H		L		L	

Syllabus		
Job Type	**Contents**	**Mapped CO**
Wood Working	Familiarity with different types of woods and tools used in wood working and make following joints i) Half – Lap joint. ii) Mortise and Tenon joint. iii) Corner Dovetail joint or Bridle joint.	CO1
Sheet Metal Working	Familiarity with different types of tools used in sheet metal working, Developments of following sheet metal job from GI sheets i) Tapered tray ii) Conical funnel ii) Elbow pipe	CO2
Fitting	Familiarity with different types of tools used in fitting and do the following fitting exercises i) V-fit ii) Semi-circular fit iii) Bicycle tire puncture and change of two wheeler tire	CO3
Electrical	Familiarities with different types of basic electrical circuits and make the following connections	CO4

Wiring	i) Preparation of a circuit for Parallel and series connection. ii) Preparation of a circuit Go down lighting using Two way switch and tube light. iii) Soldering of wires	

Learning Resources
Text Books
1. Work shop Manual - P.Kannaiah/ K.L.Narayana/ Scitech Publishers. 2. Workshop Manual / Venkat Reddy/ BS Publications/Sixth Edition