

SUBJECT TITLE : **GENERAL WORKSHOP-II**
(Common for all Engg. other than ME, AU, TD, TT)
SUBJECT CODE :
PERIODS/WEEK : **2**
PERIODS/SEMESTER : **36**
CREDITS : **2**

TIME SCHEDULE

Module	Topic	Periods
I	Carpentry	9
II	Fitting	9
III	Sheet Metal	9
IV	Welding	9
Total		36

OBJECTIVES

Students were given an introduction to workshop practice in the First Semester. This course is intended to hone their skills.

Upon completion of the course of study, the student should be able to:

1. Perform various exercises as per the given drawing and specifications.
2. Identify the required tools from a given number of tools.
3. Select particular tool for a specified operation.
4. Locate the functional part of equipments and tools.
5. Explain the use of tools and equipment.
6. Prepare the edges/work piece as per drawing standard.
7. Set up the job as per the procedures of operation.
8. Perform various steps as per the procedure.
9. Inspect the job for achievement of accuracy and finish.
10. Clean the tools, instruments and work place.
11. Return the tools, instrument as per regulations.
12. Exhibit safety precautions.

CONTENT DETAILS

1. CARPENTRY

Study of timber-structure of wood, classification of timber, seasoning of wood.

Exercises:-

Preparation of carpentry joints like cross halving joints, dove tail joint, mortise and tenon joint.

2. **FITTING**

Study of tools:-

Drills, Reamers and Taps-Hand drill, power drill

Exercises:-

Different type of male and female joint, drilling, reaming, tapping and dieing.

3. **SHEET METAL**

Study of sheet metal operations – piercing, punching, notching, perforating, slotting, blanking, lancing and cutting off.

Exercise:-

Grooved joints, locked grooved joints, punching and drilling of sheets.

4. **WELDING**

Welded joints after edge preparation – ‘V’ and double ‘V’

REFERENCE:-

1. Workshop Manual by P. Kannaiah & K L Narayana
2. Workshop Technology Vol. I by S K Hajra Choudhary
3. Workshop Technology Vol. II by S K Hajra Choudhary