

1/4 B.Tech. SECOND SEMESTER

CE2L2

ENGINEERING WORKSHOP

Credits: 2

Lecture: --

Internal assessment: 25 marks

Lab : 3 periods/week

Semester end examination: 50 marks

Objectives:

- To gain experience on different trades of Engineering like Carpentry, Tin Smithy, Welding and House Wiring.

Learning outcomes:

After performing the experiments listed in the syllabus, the students will be able to:

- Model and design various basic prototypes in the carpentry trade such as Lap joint, Lap Tee joint Dove tail joint, Mortise & Tenon joint, Cross-Lap joint.
- Design and model various basic prototypes in the trade of welding such as Lap joint, Lap Tee joint, Edge joint, Butt joint and Corner joint.
- Make various basic prototypes in the trade of tin smithy such as saw edge, wired edge, lap seam, grooved seam, and funnel preparations.
- Perform various basic House Wiring techniques such as connecting one lamp with one switch, connecting two lamps with one switch, connecting a fluorescent tube, stair case wiring, go down wiring.

1. TRADES FOR EXERCISES:

1. Carpentry
2. Fitting
3. Tin-Smithy
4. Black Smithy
5. House-wiring

Learning resources

Text Book:

1. Workshop Manual by Kannaiah. P and Narayana, K.L. , Scitech Publishers, 2009.