WORKSHOP PRACTICE

[As per Choice Based Credit System (CBCS) scheme] (Effective from the academic year 2017 -2018)

SEMESTER - I/II

Subject Code	17WSL16/17WSL26	IA Marks	40
Labs / Tutorial Hours/Week	3 (1 hr Tut +2 hrs lab)	Exam Marks	60
Total Number of Lecture Hours	42	Exam Hours	03

CREDITS - 02

Course objectives:

- To impart knowledge and skill to use tools, machines, equipment, and measuring instruments.
- Educate students of Safe handling of machines and tools.

Module -1	Teaching Hours
1. Use of Hand Tools: V-block, Marking Gauge, Files, Hack Saw, Drills, Taps and Minimum 3 models involving Dove tail joint, Triangular joint and Semicircular joint.	3 Hours
2. Welding: Study of electric arc welding tools &equipments, Models: Butt Joint, Lap Joint, T joint & L-joint.	
3. Sheet Metal & Soldering Work: Development & Soldering of the models: Tray, Frustum of cone, Prism(Hexagon & Pentagon), Truncated Square Pyramid, Funnel.	
4. Study & Demonstration of power tools in Mechanical Engineering.	

Course outcomes:

At the end of the course, the student will be able to:

- 1. Demonstrate and produce different types of fitting models.
- 2. Gain knowledge of development of sheet metal models with an understanding of their applications.
- 3. Perform soldering and welding of different sheet metal & welded joints.
- 4. Understand the Basics of Workshop practices.

Scheme of Examination

Fitting Model / Sheet Metal Work: 50 Marks

(50% of the batch to be given Fitting and remaining 50% to be given Sheet

metal work including Soldering)

Welding: 30 Marks
Viva voce: 20 Marks
Total: 100 Marks

Ref Books: Elements of Workshop Technology:Vol I:Manufacturing Processes, S K Hajra. Choudhury, A K. Hajra Choudhury,15th Edition Reprinted 2013,Media Promoters &Publishers Pvt Ltd., Mumbai.

Note: No mini drafters and drawing boards required. Drawings (Developments) can be doneon sketch sheets using scale, pencil and Geometrical Instruments