

WORK SHOP PRACTICE- II

DETAILED SYLLABUS

OBJECTIVES

To understand basics of Metal joining and casting

UNIT- I WELDING

Understand the operation of welding transformer and generator- Handle the Arc welding setup for welding- Handle the Electrode Holder for laying welding beads- Perform various welding joint operations- butt joint, lap joint, corner joint, edge joint, T joint

UNIT- II SHEET METAL PRACTICE 26Hrs

Introduction and demonstration of hand tools used in sheet metal shop - different types of hammers, hard and soft mallet, sheet and wire gauge - demonstration of various raw materials used in sheet metal shop e.g. M.S. sheet, galvanized-iron plain sheet, galvanized corrugated sheet, aluminum sheets etc. Hands on Experience Job I: Practice on making single lap joint/double lap Joint. Job II: Practice on making single cover plate chain type, seam joint and Preparation of any one utility articles like Tray, Cylinder, container and Funnel.

UNIT- III FOUNDRY SHOP 26Hrs

Study of Foundry Tools and Equipment-Sand Mixing, Study of cope and drag-Practice in a single box-Cutting Practice by double box- Hands on Experience, Preparation of moulds- Job I Hexagon, Square and Circular Mould Job II: Combination of Hexagon with Square or Circular Mould