

## 2.4 30254 WORKSHOP TECHNOLOGY

### UNIT-1. WELDING AND ITS APPLICATIONS.

Introduction, Classification of welding process, Electrodes, Types of welding joints Welding defects, Gas welding, Welding methods, Brazing, Welding of copper Comparison among welding, brazing and soldering

### UNIT-2. CASTING PROCESS AND ITS APPLICATIONS

Casting process, Pattern and allowances, Core print and types of core prints Moulding sand and its desirable properties, Defects in castings, gating system Special casting process,

### UNIT-3. LATHE

Introduction, Types of lathe, Lathe Operations, Description and functions of various part of lathe, Work holding device, Lathe accessories and attachments, Cutting parameters

### UNIT-4. BORING MACHINES

Introduction, Principle of boring, Classification of boring of machine specifications of horizontal boring machines, Boring Tools,

### UNIT-5. CUTTING TOOL AND CUTTING MATERIALS

Introduction, Cutting Tools, Single point cutting tool geometry, Cutting tool materials Cutting fluids

### UNIT-6. DRILLING AND DRIL MACHINES

Introduction, Classification of drilling machine and their description, Sensitive or bench drilling machine, Specification of drilling machines, Various operations performed on drilling machine, Sped and feed during drilling cutting speed, Types of drills and their features, Drill materials, Drill holding devices

**Reference Book:** Workshop Technology by Dr.K.S.Yadav