

1.5 10005 ENGINEERING DRAWING

UNIT-1 INTRODUCTION TO ENGINEERING DRAWING AND DRAWING INSTRUMENTS

- Introduction
- Classification of Drawing
- Drawing Instruments

UNIT-2 SHEET LAYOUT

- Introduction
- Drawing Sheet Sizes
- Layout
- Molding 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 Parts of a Lathe
- Work Holding Device
- Lathe Accessories and Attachments
- Cutting Parameters

UNIT-4 BORING MACHINES

- Introduction
- Principle of Boring
- Classification of Boring Machines Specifications of a Horizontal Boring Machine
- 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 DRILL MACHINES

- Introduction
- Classification of Drilling Machines and their Description
- Sensitive or Bench Drilling Machine
- Specifications of Drilling Machines
- Various Operations Performed on Drilling Machines
- Speeds and Feed during Drilling Cutting Speed
- Types of Drills and Their Features

- Drill Materials 6.1.9.Drill Holding Devices
- Reamers

UNIT-8 HAND TOOL

- Foundry Shop
- Files

UNIT-9 PRACTICAL WORK

Reference Book: Engineering Drawing by Roop Lal

