

**10 ME 303 MACHINE DRAWING**  
**II B.Tech I Semester**  
(with effect from the academic year 2011-2012)

Lectures/Week : 1 hrs

Credits: 4

Practice/Week : 4 h

Sessional marks: 40

University Exam: 3 hrs End Examination Marks: 60

**UNIT – I**

**Orthographic Views:** Conversion of Pictorial views into Orthographic views with sectioning.

**UNIT – II**

**Machine Elements:** Drawing views of the following machine elements: Thread profiles, bolted joint, machine and cap screws, types of nuts, locking devices for nuts, Foundation Bolts.

**Keys:** Sunk Keys, Feather Keys, Spline Shaft, Wood – Ruff Key and round Key.

**UNIT – III**

**Shaft Couplings:** Muff Coupling, Split muff Coupling, Flanged Coupling, protective type flanged coupling.

**Riveted Joints:** Different types of riveted heads, Different types of lap joints and butt joint.

**UNIT – IV**

**Assembly Drawing:** Preparation of assembly drawing of Plumber Block, Foot Step Bearing, Swivel Bearing, Screw jack, Stuffing Box, Pipe Vice, Lathe tail Stock, Clapper box, Drill Jig, Cross head, Air cock.

**UNIT – V**

**Part Drawing:** Preparation of part drawing of IC engine connecting rod, Revolving Centre, Square tool post, Eccentric, V- Belt drive, Drill jig, Cross head.

**TEXT BOOKS:**

1. Machine Drawing : Narayana K.L, Kannaiah P. and Venkata Reddy K.
2. Production Drawing : Narayana K.L, Kannaiah P. and Venkata Reddy K.

**REFERENCES:**

1. Machine Drawing : Bhatt N.D., Charotar Publishers.

2. Machine Drawing : Dhawan R.K.