

Marine Equipment Drawing – I

S.E. Sem. III [MARINE]

EVALUATION SYSTEM

	Time	Marks
Theory Exam	4 Hrs.	100
Practical Exam	–	–
Oral Exam	–	–
Term Work	–	–

SYLLABUS

1. Solid Geometry

Intersection of surfaces and interpretation of solids-intersection of prisms with prism and cylinder, intersection cone with prism and cylinder in simple position only.

2. Primary auxiliary views and auxiliary projections of simple machine parts.

3. Machine drawing

Machine Elements

Free hand sketches and preparation of working drawing of the following bolts, nuts, washers, studs, tapped holes etc.

Conventional representational of assembly of threaded parts in sectional views.

4. Detail and Assembly Drawing

Introductions to unit assembly drawing steps involved in preparing assembly drawing from details and vice versa.

Limits fits, and tolerance dimensioning with tolerances indicating various types of fit in detail and assembly drawing.

5. Machinery Component Drawing

Drawing of complete machine components in assembly (Orthographic to Orthographic and isometric to Orthographic) with details like couplings, Glands, Return and non-return valves, cocks and plugs, cylinder and piston assembly connecting rod with bearings.

6. Marine Component Drawing

Assembly Drawing of simply marine components in Orthographic projection from Isometric views e.g. Bilge strainers Boxes, marine, Diesel Pistons 2-stroke & 4-stroke types. Control Valves, Cylinder Relief Valve, Boiler Blow down valves, Diesel Engines Rocker arms.

References :

1. Machine Drawing (*N.D. Bhatt*)
2. Machine Drawing (*Kamat & Rao*)
3. Machine Drawing (*Sidheshwar Shastri*)
4. Machine Drawing (*M. B. Shan*)
5. Engineering Drawing for Marine Engineers (*Reeds Vol. II*)

