

AMMV07 MARINE MACHINERY DRAWING

UNIT-1 EXPLANATION AND SKETCHING

- 1.1 Dimensioning conventions of shafts, arcs, angles, holes, tapers, welded joints, threads and pipes conventional representation of metals and materials.
- 1.2 Sectioning conventions, removed sections and revolved sections, parts not usually sectioned, conventions of gears

UNIT-2 LIMITS, FITS AND TOLERANCES

- 2.1 Limits and tolerances, Surface Finish, Type of fits
- 2.2 Description, hole basis system and shaft basis system,
- 2.3 Calculations involving minimum and maximum clearances for given combination of tolerance grades- simple problems, geometric tolerances

UNIT-3 RIVETS AND JOINTS

- 3.1 Sketching screw-threads, screwed fastenings, rivets and riveted joints keep.
- 3.2 Cotter joints & pin joints.

UNIT-4 MARINE MACHINERY PARTS

- 4.1 Drawing of machine components in assembly
- 4.2 Details like couplings, glands, non-return valves, cocks & plugs, cylinder, connecting rod & bearings.
- 4.3 Boiler mountings- full bore safety valve, gauge glass, main stop valve.

UNIT-5 MARINE COMPONENT

- 5.1 Assembly drawings of simple marine components
- 5.2 Bilge strainer boxes, control valves, cylinder relief valves, boiler blow down cock.

References Books:

1. Gopalakrishna K.R., "Machine Drawing", 17th Edition, Subhas Stores Books Corner, Bangalore, 2003.
2. Gill P.S., "A text book on Machine Drawing", S.K. Kataria & sons, Mumbai, 2000.
3. Junnarkar,N.D., "Machine Drawing",1st Ed. Pearson, 2004