

SYLLABUS :-

Vibration induced in floating elastic structure like ship due to wave, propeller and machinery; The basic concept of structural vibration; Free and forced vibration of single degree of freedom system; Empirical formulae for the evaluation of frequencies in ship hull vibration; Free and forced vibration of multi-degree of freedom system; Vibration of a continuous system; Concept of added mass and its effect in ship hull vibration; Hull resonance diagram; Selection of engine and propeller based on vibration considerations Vibration of machine shafts; Design of engine mounts.