

SYLLABUS :-

Introduction to composite materials-, Marine applications of composites;
Processing of FRP composites; Micromechanical analysis of composite strength and stiffness; Analysis of unidirectional lamina and laminated composite; Analytical methods of analysis of laminated beams and plates; Finite element analysis of composite structure; Hygrothermal effects in laminates; Failure theories and laminate strength; Design of FRP composite; Case studies; Mine countermeasure vessels, High performance weight-critical hulls, underwater vehicle.