

4341 - SHIP STRUCTURAL DRAWING										
Teaching Schedule Per Week			Progressive Assessment		Examination Schedule (Marks)					
Lectures	Practical	Credits			Theory		Practical Ex.		Total	
-	6	6	50	50	-	-	100		200	
Pre-requisite		Source	Semester	Theory	Test	Total	TW	PR	Gr Total	
Nil		SHB		75	25	100	50	-	150	14

Rationale: The course content enable students to understand the mid ship section, design process, determine scantlings from classification society rules. Perform longitudinal strength calculation and develop construction drawing such as shell expansion.

COURSE CONTENTS	Hrs	Mks
1. MID SHIP SECTION DRAWING	40	52
Calculations of hull girder section modulus, check on mid-ship section modulus, stresses induced on deck and keel.		
2. STRENGTH CURVES	32	30
Longitudinal strength calculation, cargo and hull weight distribution, load curve, shear force and bending moment diagrams.		
3. CONSTRUCTION DRAWING	24	18
Shell expansion.		
Total	96	100

Note: Oral examination would include the drawings of the Basic Ship Theory I&II, Basic Ship Drawing and Calculations I&II and Ship Drawing and Calculations.

REFERENCE BOOKS

1. Principles of Naval Architecture by John P. Comstock
2. Basic Ship Theory Vol 1 & 2 by Rawson, K.J. & Tupper E.
3. Ship Construction by D.J. Eyres.
4. Ship Design and Construction by Taggart
5. Rules for Building and Classing Steel vessels by American Bureau of Shipping
6. Classification of Ship-Rules and Regulations by Lloyd's Register of Shipping.