## 4346-SHIP DRAWING AND CALCULATIONS

| Teaching Schedule Per Week | | | Progressive Assessment | | Examination Schedule (Marks) | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | Theory | | Practical Ex. | Total |
| Lectures | Practical | Credits | | | | | | |
| - | 6 | 4 | 25 | 25 | 3 Hrs | 100 | 25 | 175 |

| Pre-requisite | Source |
|---|---|
| 4335 | SHB |

| Semester | Theory | Test | Total | TW | PR | Gr Total | 4 |
|---|---|---|---|---|---|---|---|
| | 75 | 25 | 100 | 50 | 25 | 175 | |

Rationale: The course content is designed to enable the students to perform intact stability calculations, and floodable length calculations. It also gives an introduction to classification society rules and their application.

| COURSE CONTENTS | Hrs | Mks |
|---|---|---|
| **1. CROSS CURVES OF STABILITY** | 49 | 52 |
| Calculation and drawing cross curves of stability, calculation of initial meta-centric height, dynamic stability. | | |
| **2. FLOODING CALCULATIONS** | 26 | 28 |
| Calculation on subdivision, and flooding length, drawing of floodable length curves | | |
| **3. CLASSIFICATION SOCIETY RULES** | 6 | 6 |
| Ship structural components, framing system, design loads. | | |
| **4. BULKHEAD DRAWING** | 15 | 14 |
| Calculation on scantlings of plating and stiffness from classification society rules, bulkhead drawing. | | |
| **Total** | 96 | 100 |

## 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. Naval Architecture-Examples and Theory by B. Barter.
4. Classification of Ship –Rules and Regulations by Indian Register of Shipping-Lloyd's Register of Shipping Rules.
5. Rules for Building and Classing Steel Vessels by American Bureau of Shipping Rules
6. Ship Design and Construction by Taggart
7. Ship Contruction by D.J. Eyres.