

5333 - SHIPYARD PRACTICE										
Teaching Schedule Per Week			Progressive Assessment		Examination Schedule (Marks)					
Lectures	Practical	Credits			Theory		Practical Ex.	Total		
3	2	5	25	25	3 Hrs	100	--	150		
Pre-requisite		Source	Semester	Theory	Test	Total	TW	PR	Gr Total	
Nil		SHB								
				75	25	100	25	-	125	

(Updated upto 05-10-2001)

Rationale:- It deals with the general aspects of the construction as outlined in Shipbuilding Engg. Course. It enables the students to know: How to draw fair lines to full scale as practised in the loft department and the subsequent marking and cutting of plates. How the testing and installation of various ship systems are carried out during construction phases. The launching operations on completion of hull construction.

COURSE CONTENTS		Hrs	Mks
1. HULL CONSTRUCTION		15	26
Fairing of full scale lines and shell expansion, shell development and frame lines marking, cutting. Prefabrication-plates preparation, template making, construction skid and frame fitting. Building berth and construction on an inclined slipway. Erection, assessment of weights and position of C.G. of prefabricated unit, sequence of erection and welding alignment of members.			
2. PRODUCTION PLANNING		5	20
Flow-chart, Bar- chart, Pert & CPM, procurement of material, material Scheduling.			
3. MACHINERY INSTALLATION & ALIGNMENT		20	30
Stern tube fitting, 'A' bracket alignment, machinery installation, stern gear line boring, pre-launching checks, installation of steering gear, main propulsion engines alignment.			
4. LAUNCHING PROCEDURE		8	24
Inclining experiment, trial for speed, manoeuvrability, fuel consumption and Other specific requirements.			
Total		48	100

PRACTICALS

- Fairing of full-scale lines.
- Specimen of flow chart, bar chart – Pert & CPM
- Machinery installation and alignment.
- Line Boring
- Launching preparation & procedure
- Sea Trials – collection of data and interpretation.

REFERENCE BOOKS: -

- Merchant Ship Construction by D.A. Taylor
- Ship Design & Construction by R. Taggart.
- Ship Construction by D. J. Eyres.

