# LEVEL VI COURSES

	·	6021 -	SIIII	BUILDIN	G TRAL	NING	- 1				
Teaching	Schedule P	er Weck	Progressive		Examination Schedule (Marks)						
Training	Report	Credits	Assessment		Report		Seminar/viva			Tota!	
24 wks.	2 wks.	30	50	50	100		100 • **			300	
	-	Source			Theory	Test	Total	TW	PR	Gr Total	
Pre-requisite 60 credits		SHB	Semester		-	-	-	150	150	300	

gationale: - The objective of the training is to correlate theory and practice. Through training the students will be able to get hands on experience in the various job activities associated with ship construction and obtain practical knowledge and experience in the installation, operation and maintenance of marine machinery. The infrastructure, equipment and practices of the ship building industry is unique and the training would enable the students to acquaint themselves with these and relate them to the theory learnt. In addition, they will be exposed to industrial environment, obtain experience in working under factory discipline, associate with workers and understand their psychology and work habits, and get familiarised with various materials, processes and shop floor practices.

## COURSE CONTENTS

The students are expected to familiarise themselves with the following activities and jobs at the shipyard and are expected to perform at least 4 to 5 of the following jobs/assignments

during the training period.

1. LOFTING

Preparation of offset, fairing of full scale lines, preparation of templates.

HUMAN RESOURCE AND CURRICULUM DEVELOPMENT CELL, DIRECTORATE OF TECHNICAL EDN, GOA, Dec.2000

#### 2. STEEL PREPARATION

Shot blasting, priming, marking, cutting using pug cutting machine, edge proparation, use of grinding wheel.

3, FABRICATION:

Welding, are welding, gas welding, crection of sub assembly, structural components, preparation of skids, alignment of sub-assemblies.

## 4. OUT-FITTING

Pipe-fabrication, preparation of templates, system assembly, pressure testing, commissioning of system. Rudder installation, propeller mounting, chock fasting,

- shaft alignment. Machinery installation, fabrication of machinery seating,
- machinery alignment, testing and commissioning.

#### 5. LAUNCHING

Side Launching, end launching, crane launching, and dock launching.

## 6. MATERIAL HANDLING

Mobile cranes, EOT'S, Gantrys, trolleys, Pallets.

#### 7. SHIPYARD PRACTICES

Material estimation, work scheduling, material planning, material p management, quality control, compliance with statutory requirer		t, project			
classification society					
Notes-					
1. Orientation for industrial training at the institute	-	l day			
2. Training in the industry		24 - Weeks			
3. Report writing and preparation for seminar presentation in the Ins	d preparation for seminar presentation in the Institute				

Report: The students are required to maintain a daily diary as a day to day record of their attendance at the factory, indicating clearly the activities/jobs performed by them during the day. Doing the daily diary, the students will prepare a report detailing all the job activities performed at the yard and in full detail the specific projects undertaken by them. The report will also cover the

layout of the yard, facilities and infrastructure, orders on hand, types of ships under construction, capabilities of the yard, etc. Management aspects such as material organisation, planning systems and procedures, material storage and usage, estimation and costing etc, are also to be covered in the report. The report is to be in typed format complete with illustrations and drawings.

> 100 Marks 100 Marks 100 Marks 300 Marks

Total

Evaluation Schedule:	
Progressive assessment (By Institute – 50%, By Industry Trainer – 50%)	
Report (By external examiners)	
Seminar/Viva/Oral (By external examiners)	

## HUMAN RESOLUCE A RECORDER ON DEVELOPMENT CELL, DEFE TORATE OF TECHNICAL RDN, GOA, Dec 2009