		4336	- MAR	INE	ENGINE	ERIN	G - I				
Teaching	g Schedule P	er Week	Progr	essive		Exa	mination	Schedu	ıle (Ma	arks)	
Lectures	Practical	Credits	Assessment			Theory			Practical Ex.		
3	2 .	5	25	25	3 Hr	s I	00	•		150	
Prc-requisite		Source	Semester		Theory	Test	Total	TW	PR	Gr Total	
Nil		SHB			75	25	100	25	-	125	

Rationale: - Technicians involved in shipbuilding, ship repairs and ship operations are required to have a thorough knowledge of pipeline systems with fittings, types of valves and their selection, types of Marine pumps, boilers types, diesel engines working cycles and components. Having studied this subject, student shall be able to choose material for pipe depending on ship systems for installation on board. Select valves for particular applications. Take decision for particular pump for ship service with their starting, stopping & maintenance strategies. Know various types of boilers in Marine usage, with mountings, accessories, maintenance, testing, & operation. Know four-stroke, two stroke cycles engines & their application on the ships.

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	COURSE CONTENTS	Į	Irs	M
1. PIPES		а 1	9	15
Shin ninelines, the	eir material, fittings, methods of joining pipes, expansion joints, packing, strainers, steam traps, care of piping.	К., ,	9	20
quiek closing	sed-on-board the ship- Cocks, globe valve, gate valve, relief valve, valve, reducing valve, valve chests, storm valve, throttle valve, and ball valve. Provision of valves before and after pumps-SD and	3		25
matamt numme	PS Characteristics and Marine applications of reciprocating, centrilugal, used on ships. Definition and terminology, impeller characteristics, tenance of pumps, testing of pumps, starting and stopping of pumps.		12	25
mountings an	ILERS boilers in Marine applications, fire tube and water tube boilers, d accessories, principles of combustion, air supply, fuel supply, fuel r feed water treatment, boiler operation, care & maintenance.	i.	14	210

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	tere y		
SYLLABI OF COURSES FO	OR DIPLOMA PROGRAMME IN SHIPBUILDING ENGINEERING, LEV	EL IV&VI	11
COMPRESSORS		6	15
ypes - Reciprocating- s details and applicatio	simple and multistage, centrifugal and rotary. Constructional ns. Air receivers and mountings	Ŭ	15
	Total	48	100
To study builer mounti Study of performance EFERENCE BOOKS Introduction to Marine En	& study principle of working of reciprocating, centrifugal, ro	5	
Marine Auxiliary Machine	of air compressor.		
Marine steam boilers by H	of air compressor. 1926. by D.A. Taylor Butterworths, 1983, The University press, Cambrery by David D. Smith. Butterworths, London	ridge.	
Marine Steam boilers by H Marine Diesel Engines by	of air compressor.	ridge.	

