

PROGRAMME STRUCTURE
FOR
DIPLOMA PROGRAMME IN
SHIPBUILDING ENGINEERING
UNDER RATIONALISED SEMESTER SYSTEM
(IMPLEMENTED FROM ACADEMIC YEAR 2020-2021)



GOVERNMENT OF GOA
BOARD OF TECHNICAL EDUCATION, GOA STATE

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Directorate of Technical Education, Goa State

DIPLOMA IN ENGINEERING CURRICULUM STRUCTURE											
Semester	Code	Subjects	L	T	P	H	TH	TM	PR	TW	TOT
FIRST	GC101	Comm. Skills	0	0	2	2	–	–	25	25	50
	GC102	Engineering Maths-I	4	2	0	6	75	25	–	–	100
	GC103	Applied Physics-I	4	0	2	6	75	25	–	25	125
	GC106	Basic Engineering Practice I (Mech.& Elect)	0	0	6	6	–	–	50	100	150
	GC203	Environmental Studies	3	0	0	3	75	25	–	–	100
			11	2	10	23	225	75	75	150	525
SECOND	GC201	Engineering Maths-II	4	2	0	6	75	25	–	–	100
	GC202	Applied Physics-II	3	0	2	5	75	25	–	25	125
	GC104	Applied Chemistry	3	0	2	5	75	25	–	25	125
	GC204	Engineering Drawing	2	0	4	6	–	–	50	50	100
	GC205	Engineering Materials	3	0	0	3	75	25	–	–	100
	GC107	Basic Engineering Practice II (Elec.& Comp.)	0	0	4	4	–	–	50	75	125
			15	2	12	29	300	100	100	175	675
THIRD	SB301	Basic Ship Theory I	3	0	3	6	75	25	0	50	150
	SB302	Shop Floor Practice	3	0	3	6	75	25	0	50	150
	SB303	Introduction To Thermodynamics	3	0	1	4	75	25	0	25	125
	CC301	Engineering Mechanics	3	1	1	5	75	25	0	25	125
	CC302	Elements Of Electrical And Electronics Engg.	3	0	2	5	75	25	0	25	125
	MC304	Computer Aided Drafting	0	0	4	4	0	0	50	50	100
			15	1	14	30	375	125	50	225	775
FOURTH	MC401	Strength Of Material	3	1	1	5	75	25	0	25	125
	SB401	Basic Ship Theory II	3	0	3	6	75	25	0	50	150
	SB403	Welding In Ship Construction	3	0	3	6	75	25	0	50	150
	SB404	Marine Engineering I	3	0	2	5	75	25	25	25	150
	SB405	Ship Construction Technology	3	0	2	5	75	25	0	25	125
	CC501	Entrepreneurship Development	0	0	2	2	0	0	0	25	25
			15	1	13	29	375	125	25	200	725
FIFTH	TR501	Inplant Training Phase I	-	-	-	-	-	-	100	100	Grade
SIXTH	SB601	Marine Engineering II	3	0	2	5	75	25	25	25	150
	SB602	Ship Repair Engineering	4	0	2	6	75	25	25	25	150
	SB603	Ship Drawing & Calculation	1	0	6	7	75	25	25	25	150
	GC602	Business Communication	0	0	2	2	0	0	25	25	50
	SB604	Ship Resistance & Propulsion	4	0	0	4	75	25	0	0	100
		Elective-I	3	0	2	6	75	25	25	25	150
			15	0	14	29	375	125	125	125	750

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SEVENTH	SB701	Elementary Ship Design	5	0	0	5	75	25	0	0	100
	SB704	Computer Application In Ship Design	0	0	4	4	0	0	50	50	100
	SB703	Shipbuilding Project	0	0	5	5	0	0	50	100	150
	CC601	Industrial Organization and Management	3	0	0	3	75	25	0	0	100
		Elective-II	3	0	2	5	75	25	25	25	150
		Elective-III	3	0	2	5	75	25	25	25	150
			14	0	15	29	300	100	150	200	750
EIGHTH	TR801	Inplant Training Phase II	-	-	-	-	-	-	100	100	Grade
L- Lecturers T – Tutorial P – Practical H-Hours TH – Theory Marks TM – Test Marks PR – Practical Marks TW- Term Work Marks											

ELECTIVE GROUPS

	Elective-I
SB611	Marine Regulations
FE604	Quality Control & Inspection
SB612	Material Handling & Safety Engineering
MC403	Mechatronics
	Elective-II
SB711	Marine Structural Design
SB712	Deisel Engine Oper. & Maintenance
FE614	Offshore Structures
SB723	Defence Ship Construction
	Elective-III
SB713	Shipyards Practice
SB714	Marine Drawing Practice
MC601	Machine Design Practice