PROGRAM OF STUDY

BSMT 2-1-1 PROGRAM SCHEME

FIRST YEAR

First Year – 1st Semester

Course Code	No	Course Decembring Title	Contac	t Hours		Pre -	Co-
Course Code	No.	Course Descriptive Title	Lec	Lab	Units	Requisite/s	Requisite/s
NAV	1	Terrestrial and Coastal Navigation 1	3	3	4	None	None
SEAM	1	Basic Seamanship	3	3	4	None	None
ICT		Maritime Information Communication Technology with Cyber Security	1	3	2	None	None
NGEC	9	Math, Sciences, and Technology (for development)	3	0	3	None	None
NGEC	1	Understanding the Self	3	0	3	None	None
NGEC	5	Purposive Communication	3	0	3	None	None
NSTP	1	National Service Training Program	3	0	3	None	None
PE	1	Basic Swimming	0	2	2	None	None
		Sub-Total	19	11	0.4		
		Total	3	30	24		

First Year – 2nd Semester

Course Code	Na	Course Descriptive Title	Contac	t Hours	Haita	Pre -	Co- Requisite/s
Course Code	No.		Lec	Lab	Units	Requisite/s	
NAV	2	Terrestrial and Coastal Navigation 2	3	3	4	NAV 1	None
SEAM	2	Ship Construction	3	0	3	SEAM 1	None
COLREGS		Collision Regulations	3	3	4	None	None
MET-O		Meteorology and Oceanography	4	2	5	None	None
PE	2	Advanced Swimming	0	2	2	PE 1	None
NSTP	2	National Service Training Program	3	0	3	None	None
		Sub-Total	16	10	04		
		Total	2	26	21		



SECOND YEAR

Second Year - 1st Semester

Course Code	N-	Course Descriptive Title	Contac	t Hours	Unito	Pre -	Co- Requisite/s
Course Code	No.		Lec	Lab	Units	Requisite/s	
NAV	3	Electronic Navigation	2	3	3	NAV 2	None
NAV	4	Celestial Navigation	2	3	3	NAV 2	None
SEAM	3	Trim, Stability and Stress	2	2	3	SEAM 2	None
SEAM	5	Ship handling and Manoeuvring	2	3	3	NAV 3	None
MARCOM		Maritime Communications	3	3	4	None	None
MGMT	1	Leadership and Teamwork	3	0	3	None	None
		Sub-Total	14	14	19		
		Total	2	28			

Second Year – 2nd Semester

0	,,_		Contac	t Hours		Pre -	Co-
Course Code	No.	Course Descriptive Title	Lec	Lab	Units	Requisite/s	Requisite/s
NAV	5	Operational Use of Radar/ARPA ¹	2	3	3	NAV 3, COLREGS	None
NAV	6	Operational Use of ECDIS ²	1	3	2	NAV 3, NAV 4	None
D-WATCH		Deck Watchkeeping with Bridge Resource Management	3	3	4	MGMT 1, MARCOM, MET-O, COLREGS SEAM 5 Nav 5 Nav 6	None
SEAM	4	Cargo Handling and Stowage	3	3	4	SEAM 3	None
MARLAW		Maritime Law	4	0	4	None	None
		Sub-Total	13	12	47		
		Total	2	25	17		

Note: While NAV 5¹ and NAV 6² are reflected with the D-WATCH course in the 2nd Year – 2nd Semester as prerequisites, the former (NAV 5 and NAV 6) have to be taken and successfully passed first prior to the taking of the latter (D-WATCH course).



THIRD YEAR

Pre-Requisite for Onboard Training (OBT)

Course Code	Ma	Course Descriptive Title	Contac	t Hours	11-24-	Pre -	Co- Requisite/s
	No.		Lec	Lab	Units	Requisite/s	
ВТ		Basic Training	N/A	N/A	N/A	None	None
SDSD		Ship Security Awareness Training and Seafarers with Designated Security Duties	N/A	N/A	N/A	None	None
		Sub-Total			NI/A		
		Total			N/A		

Note: It is the discretion of the Maritime Higher Education Institutions (MHEIs) when to offer the BT and SDSD as long as it is prior to OBT.

Course Code No	Na	No. Course Descriptive Title	Contac	t Hours	Units	Pre - Requisite/s	Co- Requisite/s
	NO.		Lec	Lab			
ОВТ		Onboard Training			40	BT, SDSD	None
	11.	Sub-Total			40		
		Total			40		



FOURTH YEAR

Fourth Year - 1st Semester

0 0d-	NI.	Company Description Title	Contac	t Hours	11-24-	Pre -	Co- Requisite/s
Course Code	No.	Course Descriptive Title	Lec	Lab	Units	Requisite/s	
MARPOW		Basic Marine Engineering	3	0	3	None	None
NGEC	8	Ethics	3	0	3	None	None
RIZAL		The Life and Works of Dr José Rizal	3	0	3	None	None
NGEC	3	The Contemporary World	3	0	3	None	None
NGEC	4	Mathematics in the Modern World	3	0	3	None	None
MARENV		Protection of the Marine Environment	3	0	3	None	None
PE	3	Dual Sports	0	2	2	None	None
		Sub-Total	18	2	00		
	Total		20		20		

Fourth Year - 2nd Semester

Carrea Cada	Ala	Course Descriptive Title	Contac	t Hours	Unite	Pre -	Co- Requisite/s
Course Code	No.		Lec	Lab	Units	Requisite/s	
MGMT	2	Integrated Management System	2	0	2	None	None
NGEC	2	Readings in Philippine History	3	0	3	None	None
NGEC	6	Art Appreciation	3	0	3	None	None
NGEC	7	Science, Technology, & Society	3	0	3	None	None
NGEC	10	Social Sciences & Philosophy	3	0	3	None	None
NGEC	11	Arts and Humanities	3	0	3	None	None
PE	4	Team Sports	0	2	2	None	None
		Sub-Total	17	2	40		
		Total	1	9	19		

Note: The Maritime Higher Education Institutions (MHEI) has the prerogative to rearrange the sequence of New General Education Courses (NGEC) except for NGEC9.



(Program of Study (2-1-1 scheme) for Bachelor of Science in Marine Transportation (BSMT)

PROGRAM OF STUDY

BSMarE 2-1-1 PROGRAM SCHEME

FIRST YEAR

First Year - 1st Semester

Course Code	Course Descriptive Title	Contac	t Hours	Limita	Pre	Co- Requisite/s
		Lec	Lab	Units	Requisite/s	
NGEC 9	Math, Science, and Technology (for development)	3	0	3	None	None
Mach 1	Machine Shop Theory	3	0	3	None	None
Electro 1	Basic Electricity	3	3	4	None	None
MDraw	Maritime Drawing and Diagrams	1	3	2	None	None
ICT	Maritime Information, Communications, and Technology with Networking	1	2	2	None	None
NGEC 4	Mathematics in the Modern World	3	0	3	None	None
NSTP 1	National Service Training Program	3	0	3	None	None
PE 1	Basic Swimming	0	2	2	None	None
	Sub-Total	17	10	22		
	Total		27			

First Year – 2nd Semester

Course Code	Course Descriptive Title	Contac	t Hours	11.4	Pre	Co-
Course Code		Lec	Lab	Units	Requisite/s	Requisite/s
Thermo	Thermodynamics	6	0	6	NGEC 9	None
Electro 2	Basic Electronics	3	3	4	Electro 1	None
IChem	Industrial Chemistry and Tribology	3	2	4	None	None
E Mat	Engineering Materials	3	0	3	NGEC 9	None
Mech	Mechanics and Hydromechanics for Marine Engineering	3	0	3	NGEC 9	None
Mach 2	Machine Shop Practice 1	0	4	2	Mach 1	None
NGEC 5	Purposive Communication	3	0	3	None	None
NSTP 2	National Service Training Program 2	3	0	3	None	None
PE 2	Advance Swimming	0	2	2	PE 1	None
	Sub-Total	24	11	30		-
	Total		35			



SECOND YEAR

Second Year - 1st Semester

Course Cod-	Course Descriptive Title	Contac	t Hours	Units	Pre	Co-
Course Code	Course Descriptive Title	Lec	Lab	Units	Requisite/s	Requisite/s
Mach 3	Machine Shop Practice 2	0	6	2	Mach 1 E Mat	None
Electro 3	Marine Electro-Technology with Maintenance and Repair	3	6	5	Electro 2	None
Aux Mach 1-Lec	Auxiliary Machinery 1 - Lecture	3	0	3	Thermo IChem Mech MDraw	None
Aux Mach 2-Lec	Auxiliary Machinery 2 - Lecture	3	0	3	Thermo IChem Mech MDraw	None
Aux Mach 3-Lec	Auxiliary Machinery 3 - Lecture	3	0	3	Thermo IChem Mech MDraw	None
NGEC 1	Understanding the Self	3	0	3	None	None
NGEC 3	The Contemporary World	3	0	3	None	None
NGEC 7	Science, Technology, & Society	3	0	3	None	None
PE 3	Dual Sports	0	2	2	None	None
	Sub-Total	21	14	07		
	Total	3	35	27		

Second Year – 2nd Semester

0	O D	Contac	t Hours	11	Pre Requisite/s	Co- Requisite/s
Course Code	Course Descriptive Title	Lec	Lab	Units		
Auto 1	Pneumatics and Hydraulics	3	3	4	Electro 3 Mech	None
Auto 2	Marine Plant Instrumentation and Control	3	3	4	Auto 1 Electro 3 Mech	None
Ship Con	Ship Construction and Stability	3	0	3	None	None
Mar Law	Maritime Legislations	4	0	4	None	None
NGEC 6	Art Appreciation	3	0	3	None	None
NGEC 8	Ethics	3	0	3	None	None
PE 4	Team Sports	0	2	2	None	None
	Sub-Total	19	8	00		
	Total	2	27	23		



THIRD YEAR

Pre-Requisite for Onboard Training (OBT)

Course Code	Course Descriptive Title	Contact Hours		Linita	Pre -	Co-
		Lec	Lab	Units	Requisite/s	Requisite/s
BT	Basic Training	N/A	N/A	N/A	None	None
SDSD	Ship Security Awareness Training and Seafarers with Designated Security Duties	N/A	N/A	N/A	None	None
	Sub-Total			N1/A		
	Total			N/A		

Note: It is the discretion of the Maritime Higher Education Institutions (MHEIs) when to offer the BT and SDSD as long as it is prior to OBT.

Course Code	Course Descriptive Title	Contact Hours		Linita	Pre -	Co-
Course Code		Lec	Lab	Units	Requisite/s	Requisite/s
OBT	Onboard Training			40	BT, SDSD	None
	Sub-Total			40		
	Total			40		

FOURTH YEAR

Fourth Year – 1st Semester

Course Code	Course Descriptive Title	Contact Hours		11-14-	Pre	Co-
		Lec	Lab	Units	Requisite/s	Requisite/s
AuxMach 1-Lab	Auxiliary Machinery 1 - Laboratory	0	5	2	AuxMach 1- Lec Auto 1 Auto 2 Electro 3	None
AuxMach 2-Lab	Auxiliary Machinery 2 - Laboratory	0	5	2	AuxMach 2- Lec Auto 1 Auto 2 Electro 3	None
AuxMach 3-Lab	Auxiliary Machinery 3 - Laboratory	0	5	2	AuxMach 3- Lec Auto 1 Auto 2	None

Program of Study (2-1-1 scheme) for Bachelor of Science in Marine Engineering (BSMarE)



(Program of Study (2-1-1 scheme) for Bachelor of Science in Marine Engineering (BSMarE))

Course Code	Course Descriptive Title	Contact Hours		I furito	Pre	Co-
		Lec	Lab	Units	Requisite/s	Requisite/s
					Electro 3	
Main Prop 1	Main Propulsion 1	3	0	3	Thermo Auto 1 Auto 2 AuxMach 1- Lec AuxMach 2- Lec AuxMach 3- Lec	None
EWK 1	Engine Watchkeeping 1	3	3	4	Mar Law ICT	None
NGEC 2	Readings in Philippine History	3	0	3	None	None
NGEC 10	Social Sciences and Philosophy	3	0	3	None	None
	Sub-Total	12	18	10		
Total		30		19		

Fourth Year – 2nd Semester

Course Code	Course Descriptive Title	Contact Hours		Units	Pre	Co-
		Lec	Lab	Units	Requisite/s	Requisite/s
Maint	Maintenance and Repair of Auxiliary Machinery and Equipment	1	5	3	Mach 2 Mach 3 E Mat AuxMach 1- Lab AuxMac 2- Lab AuxMac 3- Lab	None
MGMT	Leadership and Teamwork	3	3	4	None	None
EWK 2	Engine Watchkeeping 2	0	5	2	EWK 1 Mar Law Main Prop 1 AuxMach 1- Lab AuxMach 2- Lab AuxMac 3- Lab	None
Main Prop 2	Main Propulsion 2	0	5	2	Main Prop 1 AuxMach 1- Lab AuxMach 2- Lab AuxMac 3- Lab	None
NGEC 11	Arts and Humanities	3	0	3	None	None
Rizal	The Life and Works of Dr José Rizal	3	0	3	None	None
	Sub-Total	10	18	4 ***		
Tota		28		17		

Program of Study (2-1-1 scheme) for Bachelor of Science in Marine Engineering (BSMarE)

Note: The Maritime Higher Education Institutions (MHEI) has the prerogative to rearrange the sequence of New General Education Courses (NGEC) except NGEC 9.

