

Academics:

- Undergraduate program:

CURRICULUM

Total Credit: Major in Nautical:152 Credits

Total Credit: Major in Engineering:150/151 Credits

SI. No.	Course Code	Subject	Credit
Theory			
1	SMS 1101	Principles of Ship and Sailings	3.00
2	SMS 1103	Shipping and Port Management	3.00
3	SMS 1105	Ship Structure and Construction	3.00
4	CSE 1181	Computer Fundamentals	3.00
5	ENG 1183	Maritime English and Communication Skills	3.00
6	PHY 1185	Physics and Electronics- I	3.00
7	MATH 1187	Mathematics- I	3.00
Sessional/Practical (Any one)			
1.	SMS 1106	Ship Structure and Construction Sessional	1.00
2.	SMS 1108	Maritime Signaling	1.00
3.	CSE 1182	Computer Fundamentals Sessional	1.00

The details of course codes and titles organized in different levels and terms are as follows:

Level 1 (Freshman Year), Term 1

Level 1 (Freshman Year), Term 2

SI. No.	Course Code	Subject	Credit
Theory			
1	SMS 1201	Maritime Geography and Oceanography	3.00

2	SMS 1203	Cargo Operation Management	3.00
3	SMS 1205	Naval Architecture-I	3.00
4	SMS 1207	Maritime Safety and Security	3.00
5	SMS 1209	Emergence of Maritime Sector in Bangladesh	3.00
6	MATH 1281	Mathematics II	3.00
7	PHY 1285	Physics and Electronics II	3.00
Sessional/Practical (Any 2)			
1	SMS 1208	Maritime Safety and Security Sessional	1.00
2	SMS 1212	Practical Seamanship	1.00
3	PHY 1286	Physics and Electronics II Sessional	1.00

Level 2 (Sophomore Year), Term 1(For Deck:20 credits) (For Engine: 20/21 Credits)

Sl. No.	Course Code	Subject	Credit
Theory			
1	SMS 2105	Maritime Management and Leadership	3.00
2	SMS 2107	Marine Engineering and Control System	3.00
3	SMS 2109	Maritime Environment and Sustainability	3.00
4	BAN 2181	Bangla Language and Literature	3.00
5	CSE 2183	Computer Applications in Maritime	3.00
Sessional/Practical			
1	SMS 2112	Computer Aided Maritime Drawing	1.00
2	CSE 2184	Computer Applications in Maritime Sessional	1.00

A. For Major in Nautical Science Only (Any 1)

Sl. No.	Course Code	Subject	Credit
1.	SNS 2401	Principles of Navigation	3.00
2.	SNS 2503	Collision Prevention Regulations	3.00

3.	SMS 2504	Collision Prevention Regulations Sessional	1.00
4.	SMS 2505	Introduction to Maritime transportation and Logistics	3.00

B. For Major in Marine Engineering Only (Any 1)

SI. No.	Course Code	Subject	Credit	Prerequisite
1	SME 2451	Marine Internal Combustion Engineering - I	3.00	
2	SME 2453	Marine Auxiliary Machinery-I	3.00	SME 2454
3	SME 2454	Marine Auxiliary Machinery-I Sessional	1.00	SME 2453

Level 2 (Sophomore Year), Term 2 (For Deck:16 credits) (For Engine:16/17 Credits)

SI. No.	Course Code	Subject	Credit
		Theory	
1	SMS 2203	Maritime Laws and Regulations	3.00
2	SMS 2205	Meteorology and Instrumentation	3.00
3	SMS 2207	Ship Operation Technology	3.00
4	CSE 2281	Information System Management	3.00
		Sessional/Practical (Any 1)	
1	SMS 2200	Marine Workshop /Industrial Training/BTAC	1.00
2	SMS 2214	Boat Work and ShipYard Visit	1.00

C. For Major in Nautical Science Only (Any 1)

SI. No.	Course Code	Subject	Credit
1	SNS 2405	Ocean and Offshore Navigation	3.00

2	SNS 2407	Radio Communication and GMDSS	3.00
3	SNS 2509	Coastal Navigation	3.00
4	SNS 2510	Coastal Navigation Sessional	1.00
5	SNS 2511	Ocean Management	3.00

D. For Major in Marine Engineering Only(any 1)

SI. No.	Course Code	Subject	Credit	Prerequisite
1	SME 2455	Marine Internal Combustion Engineering - II	3.00	
2	SME 2457	Marine Auxiliary Machinery-II	3.00	SME 2458
3	SME 2458	Marine Auxiliary Machinery-II Sessional	1.00	SME 2457
4	SME 2459	Marine Steam Engineering	3.00	

Level 3 (Junior Year), Term 1(16 credits)

SI. No.	Course Code	Subject	Credit
Theory			
1.	SMS 3401	Research Methodology	3.00
2.	SMS 3403	Principal of Accountant and finance	3.00
3.	SMS 3201	Containerization and multimodal transportation	3.00
4.	SMS 3203	Corporate Maritime Strategies	3.00
5.	SMS 3405	Introduction to Statistics	3.00
	15.00		
Sessional/Practical			
1	SMS 3502	Student Concluding Seminar	1.00

Level 3 (Junior Year), Term 2(19 credits)

SI. No.	Course Code	Subject	Credit
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Theory			
1	SMS 3407	Human Resource Management	3.00
2	SMS 3205	Green Shipping Management	3.00
3	SMS 3207	Port Design , development & layout	3.00
4	SMS 3409	Export & Import Documentation	3.00
5	SMS 3411	Principle of Economics	3.00
6	SMS 4203/SMS 3301	Environmental Science and Technology	3.00
Sessional/Practical			
1	SMS 3504	Student Concluding Seminar	1.00

Level 4 (Senior Year), Term 1

Sl. No.	Course Code	Subject	Credit
Theory			
1.	SMS 4101	Naval Architecture -II	3.00
2.	S** 44XO	Option I	3.00
3.	S** 44XO	Option I	3.00
4.	S** 44XO	Option I	3.00
5.	S** 45XO	Option II	3.00
6.	S** 45XO	Option II	3.00
Sessional/Practical			
1	S** 4000	Project and Thesis	3.00
2	S** 45XE	Option II Sessional	1.00
3	S** 45XE	Option II Sessional	1.00

Level 4 (Senior Year), Term 2,(For Deck:16 credits) (For Engine:13Credits)

Sl. No.	Course Code	Subject	Credit
Theory			
1.	SMS 4201	Professionalism and Ethics	3.00
2.	SMS 4203	Environmental Science and Technology	3.00
3.	S** 44XO	Option I	3.00
4.	S** 44XO	Option I	3.00
5.	S** 45XO	Option II	3.00
Sessional/Practical			
1	S** 4000	Project and Thesis	3.00

2	S** 45XE	Option II Sessional	1.00
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Project and Thesis

SI. No.	Course Code	Subject	Credit
1	SNS 4000	Project and Thesis	6.0
2	SME 4000	Project and Thesis	6.0

For Major in Nautical Science Only (Any 1)

SI. No.	Course Code	Subject	Credit
1		Option I	3.00

E. For Major in Nautical Science

Option –I (Choose Any 6(Six) Courses)

SI. No.	Course Code	Subject	Credit
1	SNS 4401	Satellite and Hyperbolic Navigation	3.00
2	SNS 4403	Climatology	3.00
3	SNS 4405	Marine Fisheries Management	3.00
4	SNS 4407	Port and Harbor Management	3.00
5	SNS 4409	Marine Surveying and Casualty Investigation	3.00
6	SNS 4411	International Trade and Ship Chartering	3.00
7	SNS 4413	Marine Pollution Management	3.00
8	SNS 4417	Bridge Team and Resource Management	
9	SNS 4419	Shipyards Management	3.00
10	SNS 4421	Occupational Health Safety Studies	3.00
11	SNS 4453	Navigational Instrument	3.00
12	SNS 4423	Hinterland Strategies	3.00

Option –II (Choose Any 2(two) Courses with Sessional)- Any three

SI. No.	Course Code	Subject	Credit
1.	SNS 4501	Ship Fire Prevention and Control	3.00
2.	SNS 4502	Ship Fire Prevention and Control Sessional	1.00
3.	SNS 4503	Strategic Supply Chain Management	3.00
4.	SNS 4504	Strategic Supply Chain Management Sessional	1.00
5.	SNS 4505	Voyage Planning and Chart Work	3.00
6.	SNS 4506	Voyage Planning and Chart Work Sessional	1.00
7.	SNS 4507	Radar Navigation	3.00
8.	SNS 4508	Radar Navigation Sessional	1.00
9.	SNS 4509	Fleet and Crewing Management	3.00
10.	SNS 4510	Fleet and Crewing Sessional	1.00

F. For Major in Marine Engineering

Option –I (Choose Any 5(five) Courses)

SI. No.	Course Code	Subject	Credit
1	SME 4451	Ship Maintenance and Repair	3.00
2	SME 4455	Fault Detection and Damage Prevention	3.00
3	SME 4457	Theory of Machines	3.00
4	SME 4461	Fishing Vessel Technology	3.00
5	SME 4465	Mechanics of Materials	3.00
6	SME 4467	Applied Mechanics	3.00
7	SME 4469	Resistance and Propulsion of Ships	3.00
8	SME 4471	Control Engineering and Automation	3.00

Option –II (Choose Any 3(three) Courses with Sessional)

SI. No.	Course Code	Subject	Credit
1	SME 4551	Fluid Mechanics	3.00
2	SME 4552	Fluid Mechanics Sessional	1.00
3	SME4559	Thermodynamics and Heat Transfer	3.00
4	SME4560	Thermodynamics and Heat Transfer Sessional	1.00
5	SME 4561	Engineering Drawing and Design	3.00
6	SME 4562	Engineering Drawing and Design Sessional	1.00
7	SME 4563	Marine Boiler and Steam Engineering	3.00
8	SME 4564	Marine Boiler and Steam Engineering Sessional	1.00
9	SME 4553	Welding Technology	3.00

10	SME 4554	Welding Technology Sessional	1.00
11	SME 4555	Shipbuilding Materials	3.00
12	SME 4556	Shipbuilding Materials Sessional	1.00