

Undergraduate — B.Sc. in Naval Architecture and Marine Engineering

64 courses · 8 semesters · 161 credits

Course Structure

1st Year 1st Semester

8 courses · 19.5 credits

CODE	COURSE	CREDITS
NAME 1111	Basic Naval Architecture	3
Chem 1101	Chemistry	3
Phy 1101	Physics	3
Math 1101	Mathematics I	3
NAME 1171	Marine Engineering I	3
NAME 1172	Marine Engineering I Sessional	1.5
Chem 1102	Chemistry Sessional	1.5
Phy 1102	Physics Sessional	1.5

1st Year 2nd Semester

9 courses · 19.5 credits

CODE	COURSE	CREDITS
NAME 1211	Hydrostatic and Stability of Ships	3
EEE 1201	Electrical Engineering Principles	3
Math 1201	Mathematics II	3
Ban 1201	বাংলা ভাষা ও সাহিত্য (Bengali Literature and Language)	3
Hum 1201	Advanced English Skills	2
NAME 1242	Basic Engineering Drawings	1.5
EEE 1202	Electrical Engineering Principles Sessional	1
NAME 1200	Computer Aided Drawing	1.5
ME 1200	Workshop Practices Sessional	1.5

2nd Year 1st Semester

8 courses · 20.5 credits

CODE	COURSE	CREDITS
NAME 2101	Theoretical Ship Design	3
NAME 2121	Fluid Mechanics	3
NAME 2151	Mechanics of Structures	3
NAME 2171	Marine Engineering II	4

Ban 2101	বাংলাদেশের অভ্যুদয়ের ইতিহাস (History of Bangladesh Independence)	3
NAME 2122	Fluid Mechanics Sessional	1.5
NAME 2142	Ship Drawings & Calculations I	1.5
NAME 2152	Mechanics of Structures Sessional	1.5

2nd Year 2nd Semester

8 courses · 19.5 credits

CODE	COURSE	CREDITS
Math 2201	Mathematics III	4
EEE 2201	Electrical and Electronic Engineering for Marine Engineers	3
Hum 2201	Economics	2
NAME 2273	Heat Transfer	3
NAME 2291	Shipbuilding Materials	3
NAME 2292	Shipbuilding Materials Sessional	1.5
NAME 2242	Ship Drawings & Calculations II	1.5
EEE 2202	Electrical and Electronic Engineering for Marine Engineers Sessional	1.5

3rd Year 1st Semester

9 courses · 21.5 credits

CODE	COURSE	CREDITS
NAME 3101	Shipbuilding Technology I	3
NAME 3103	Principles of Ship Design	3
NAME 3105	Theory of Machines	3
Hum 3101	Sociology	2
NAME 3121	Marine Hydrodynamics	3
NAME 3122	Marine Hydrodynamics Sessional	1.5
NAME 3142	Ship Drawings & Calculations III	1.5
NAME 3136	Computer Programming in Ship Design I	1.5
NAME 3100	Shipyard Training (4 weeks)	3

3rd Year 2nd Semester

8 courses · 20.5 credits

CODE	COURSE	CREDITS
NAME 3201	Shipbuilding Technology II	3
NAME 3203	Numerical Methods for Engineers	4
NAME 3205	Maneuvering & Control of ships	3
Hum 3201	Principles of Accounting	2
NAME 3223	Resistance & Propulsion of Ships	4
NAME 3224	Resistance & Propulsion of Ships Sessional	1.5

NAME 3236	Computer Programming in Ship Design II	1.5
NAME 3242	Ship Drawings & Calculations IV	1.5

4th Year 1st Semester

8 courses · 21.5 credits

CODE	COURSE	CREDITS
NAME 4101	Engineering Economics in Ship Design	3
NAME 4103	Navigation and Shipping Laws	3
NAME 4105	Dynamics of Marine Vehicles	4
NAME 4121	Computational Fluid Dynamics	4
NAME 4122	Computational Fluid Dynamics Sessional	1.5
NAME 4151	Ship Structures	3
NAME 4152	Ship Structures Sessional	1.5
NAME 4106	Dynamics of Marine Vehicles Sessional	1.5

4th Year 2nd Semester

6 courses · 18.5 credits

CODE	COURSE	CREDITS
NAME 4201	Shipyard Management	3
NAME 4203	Ship Hull Vibration	3
NAME 4221	Finite Element Method in Ship Structures	4
NAME 4271	Marine Engineering III	4
NAME 4272	Marine Engineering III Sessional	1.5
NAME 4000	Project & Thesis	3

Credit Distribution

SEMESTER	CORE	ELECTIVE	LAB	PROJECT	TOTAL	CUMULATIVE
1st Year 1st Semester	19.5	0	4.5	0	19.5	19.5
1st Year 2nd Semester	19.5	0	5.5	0	19.5	39
2nd Year 1st Semester	20.5	0	4.5	0	20.5	59.5
2nd Year 2nd Semester	19.5	0	4.5	0	19.5	79
3rd Year 1st Semester	21.5	0	7.5	0	21.5	100.5
3rd Year 2nd Semester	20.5	0	4.5	0	20.5	121
4th Year 1st Semester	21.5	0	3	1.5	21.5	142.5
4th Year 2nd Semester	18.5	0	1.5	3	18.5	161