

B.Sc in NAVAL ARCHITECTURE AND MARINE ENGINEERING (NAME)

Semester-wise Course and Credit Distribution

COURSE FLOW DIAGRAM

1st Year 1st Semester

Sl.	Course Code	Course Title	Theory (T)		Sessional (S)		Total Credits
			Contact hrs./week	Credits	Contact hrs./week	Credits	
1.	NAME 1111	Basic Naval Architecture	3.0	3.00	--	--	3.00
2.	Chem 1101	Chemistry	3.0	3.00	--	--	3.00
3.	Phy 1101	Physics	3.0	3.00	--	--	3.00
4.	Math 1101	Mathematics I	3.0	3.00	--	--	3.00
5.	NAME 1171	Marine Engineering I	3.0	3.00	--	--	3.00
6.	NAME 1172	Marine Engineering I Sessional	--	--	3.0	1.50	1.50
7.	Chem 1102	Chemistry Sessional	--	--	3.0	1.50	1.50
8.	Phy 1102	Physics Sessional	--	--	3.0	1.50	1.50
Total			15.0	15.00	9.0	4.50	19.50

Contact hours : 15.0(T) + 9.0(S) = 24.0 hrs./week

No. of theory courses : 5

Total Credits : 19.50

No. of sessional courses : 3

N.B.: Any student of a 4-year diploma in engineering, willing to obtain exemption of the courses of 1st Year 1st Semester, will have to submit an application to the Head of the concerned department for approval.

1st Year 2nd Semester

Sl.	Course Code	Course Title	Theory (T)		Sessional (S)		Total Credits
			Contact hrs./week	Credits	Contact hrs./week	Credits	
1.	NAME 1211 *Preq: NAME 1111	Hydrostatic and Stability of Ships	3.0	3.00	--	--	3.00
2.	EEE 1201	Electrical Engineering Principles	3.0	3.00	--	--	3.00
3.	Math 1201	Mathematics II	3.0	3.00	--	--	3.00
4.	Ban 1201	বাংলা ভাষা ও সাহিত্য (Bengali Literature and Language)	3.0	3.00	--	--	3.00
5.	Hum 1201	Advanced English Skills	2.0	2.00	--	--	2.00
6.	NAME 1242	Basic Engineering Drawings	--	--	3.0	1.50	1.50
7.	EEE 1202	Electrical Engineering Principles Sessional	--	--	2.0	1.00	1.00
8.	NAME 1200	Computer Aided Drawing	--	--	3.0	1.50	1.50
9.	ME 1200	Workshop Practices Sessional	--	--	3.0	1.50	1.50
Total			14.0	14.00	11.0	5.50	19.50

Contact hours : 14.0(T) + 11.0(S) = 25.0 hrs./week

No. of theory courses : 5

Total Credits : 19.50

No. of sessional courses : 4

*Preq = Pre-requisite course.

2nd Year 1st Semester

Sl.	Course Code	Course Title	Theory (T)		Sessional (S)		Total Credits
			Contact hrs./week	Credits	Contact hrs./week	Credits	
1.	NAME 2101	Theoretical Ship Design	3.0	3.00	--	--	3.00
2.	NAME 2121	Fluid Mechanics	3.0	3.00	--	--	3.00
3.	NAME 2151	Mechanics of Structures	3.0	3.00	--	--	3.00
4.	NAME 2171 Preq: NAME 1171	Marine Engineering II	4.0	4.00	--	--	4.00
5.	Ban 2101	বাংলাদেশের অভ্যুদয়ের ইতিহাস (History of Bangladesh Independence)	3.0	3.00	--	--	3.00
6.	NAME 2122	Fluid Mechanics Sessional	--	--	3.0	1.50	1.50
7.	NAME 2142 Preq: NAME 1242	Ship Drawings & Calculations I	--	--	3.0	1.50	1.50
8.	NAME 2152	Mechanics of Structures Sessional	--	--	3.0	1.50	1.50
Total			16.0	16.00	9.0	4.50	20.50

Contact hours : 16.0(T) + 9.0(S) = 25.0 hrs./week

Total Credits : 20.50

No. of theory courses : 5

No. of sessional courses : 3

2nd Year 2nd Semester

Sl.	Course Code	Course Title	Theory (T)		Sessional (S)		Total Credits
			Contact hrs./week	Credits	Contact hrs./week	Credits	
1.	Math 2201	Mathematics III	4.0	4.00	--	--	4.00
2.	EEE 2201	Electrical and Electronic Engineering for Marine Engineers	3.0	3.00	--	--	3.00
3.	Hum 2201	Economics	2.0	2.00	--	--	2.00
4.	NAME 2273	Heat Transfer	3.0	3.00	--	--	3.00
5.	NAME 2291	Shipbuilding Materials	3.0	3.00	--	--	3.00
6.	NAME 2292	Shipbuilding Materials Sessional	--	--	3.0	1.50	1.50
7.	NAME 2242 Preq: NAME 2142	Ship Drawings & Calculations II	--	--	3.0	1.50	1.50
8.	EEE 2202	Electrical and Electronic Engineering for Marine Engineers Sessional	--	--	3.0	1.50	1.50
Total			15.0	15.00	9.0	4.50	19.50

Contact hours : 15.0(T) + 9.0(S) = 24.0 hrs./week

Total Credits : 19.50

No. of theory courses : 5

No. of sessional courses : 3

3rd Year 1st Semester

Sl.	Course Code	Course Title	Theory (T)		Sessional (S)		Total Credits
			Contact hrs./week	Credits	Contact hrs./week	Credits	
1.	NAME 3101	Shipbuilding Technology I	3.0	3.00	--	--	3.00
2.	NAME 3103	Principles of Ship Design	3.0	3.00	--	--	3.00
3.	NAME 3105	Theory of Machines	3.0	3.00	--	--	3.00
4.	Hum 3101	Sociology	2.0	2.00	--	--	2.00
5.	NAME 3121 Preq: NAME 2121	Marine Hydrodynamics	3.0	3.00	--	--	3.00
6.	NAME 3122 Preq: NAME 2122	Marine Hydrodynamics Sessional	--	--	3.0	1.50	1.50
7.	NAME 3142 Preq: NAME 2242	Ship Drawings & Calculations III	--	--	3.0	1.50	1.50
8.	NAME 3136	Computer Programming in Ship Design I	--	--	3.0	1.50	1.50
9.	NAME 3100	Shipyard Training (4 weeks)	--	--	6.0	3.00	3.00
Total			14.0	14.00	15.0	7.50	21.50

Contact hours : 14.0(T) + 15.0(S) = 29.0 hrs./week

No. of theory courses : 5

Total Credits : 21.50

No. of sessional courses : 4

3rd Year 2nd Semester

Sl.	Course Code	Course Title	Theory (T)		Sessional (S)		Total Credits
			Contact hrs./week	Credits	Contact hrs./week	Credits	
1.	NAME 3201 Preq: NAME 3101	Shipbuilding Technology II	3.0	3.00	--	--	3.00
2.	NAME 3203	Numerical Methods for Engineers	4.0	4.00	--	--	4.00
3.	NAME 3205	Maneuvering & Control of ships	3.0	3.00	--	--	3.00
4.	Hum 3201	Principles of Accounting	2.0	2.00	--	--	2.00
5.	NAME 3223	Resistance & Propulsion of Ships	4.0	4.00	--	--	4.00
6.	NAME 3224	Resistance & Propulsion of Ships Sessional	--	--	3.0	1.50	1.50
7.	NAME 3236	Computer Programming in Ship Design II	--	--	3.0	1.50	1.50
8.	NAME 3242 Preq: NAME 3142	Ship Drawings & Calculations IV	--	--	3.0	1.50	1.50
Total			16.0	16.00	9.0	4.50	20.50

Contact hours : 16.0(T) + 9.0(S) = 25.0 hrs./week

No. of theory courses : 5

Total Credits : 20.50

No. of sessional courses : 3

4th Year 1st Semester

Sl.	Course Code	Course Title	Theory (T)		Sessional (S)		Total Credits
			Contact hrs./week	Credits	Contact hrs./week	Credits	
1.	NAME 4101	Engineering Economics in Ship Design	3.0	3.00	--	--	3.00
2.	NAME 4103	Navigation and Shipping Laws	3.0	3.00	--	--	3.00
3.	NAME 4105	Dynamics of Marine Vehicles	4.0	4.00	--	--	4.00
4.	NAME 4121 Preq: NAME 3121	Computational Fluid Dynamics	4.0	4.00	--	--	4.00
5.	NAME 4151 Preq: NAME 2151	Ship Structures	3.0	3.00	--	--	3.00
6.	NAME 4152	Ship Structures Sessional	--	--	3.0	1.50	1.50
7.	NAME 4106	Dynamics of Marine Vehicles Sessional	--	--	3.0	1.50	1.50
8.	NAME 4000	Projects & Thesis	--	--	3.0	1.50	*1.50
Total			17.0	17.00	9.0	4.50	21.50

Contact hours : 17.0(T) + 9.0(S) = 26.0 hrs./week

No. of theory courses : 5

Total Credits : 21.50

No. of sessional courses : 3

*This credit in addition to 3.00 credits of 4th year 2nd semester for project & thesis will be assessed at the end of 4th year 2nd semester.

4th Year 2nd Semester

Sl.	Course Code	Course Title	Theory (T)		Sessional (S)		Total Credits
			Contact hrs./week	Credits	Contact hrs./week	Credits	
1.	NAME 4201	Shipyards Management	3.0	3.00	--	--	3.00
2.	NAME 4203	Ship Hull Vibration	3.0	3.00	--	--	3.00
3.	NAME 4221 Preq: NAME 3201	Finite Element Method in Ship Structures	4.0	4.00	--	--	4.00
4.	NAME 4271 Preq: NAME 2171	Marine Engineering III	4.0	4.00	--	--	4.00
5.	NAME 4272	Marine Engineering III Sessional	--	--	3.0	1.50	1.50
6.	NAME 4000	Projects & Thesis	--	--	6.0	3.00	3.00
Total			14.0	14.00	9.0	4.50	18.50

Contact hours : 14.0(T) + 9.0(S) = 23.0 hrs./week

No. of theory courses : 4

Total Credits : 18.50

No. of sessional courses : 2