



AMET

ACADEMY OF MARITIME EDUCATION AND TRAINING

(Declared as Deemed to be **UNIVERSITY** u/s 3 of UGC Act 1956)

Curriculum

B.E. NAVAL ARCHITECTURE & OFFSHORE ENGINEERING

(With Effect from the Academic year 2015-2016)

SEMESTER: I

Sr. No.	SUBJECT CODE	SUBJECT TITLE	C	L	T	P	M
1	NAOE 101	Technical English - I	2	2	0	0	100
2	NAOE 103	Engineering Mathematics - I	3	3	1	0	100
3	NAOE 105	Basic Electrical and Electronics Engineering	3	3	0	0	100
4	NAOE 107	Environmental Science	3	3	0	0	100
5	PHE 101	Engineering Physics	3	3	0	0	100
6	IT1503	Computer Basics and Utilities	3	3	0	0	100
7	GE 1001	Engineering Mechanics	3	3	0	0	100
8	NAOE 109	Workshop Practice - I	1	0	0	2	100
9	NAOE 111	Soft Skills-I	2	2	0	0	100
10	IT 1506	Computer Practical Lab	1	0	0	2	100
11	GE 1502	Engineering Graphics	2	0	2	1	100
TOTAL:			<u>30 Periods/week</u>				

Note: C – Credit L – Lecture T – Tutorial P – Practical M – Marks

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SEMESTER: II

Sr. No.	SUBJECT CODE	SUBJECT TITLE	C	L	T	P	M	
1	NAOE 102	Technical English - II	2	2	0	0	100	
2	NAOE 104	Engineering Mathematics - II	3	3	1	0	100	
3	NAOE 106	Material Science	3	3	0	0	100	
4	NAOE 108	Engineering Chemistry	3	3	0	0	100	
5	BM 4005	Applied Thermodynamics	4	3	1	0	100	
6	GE 1501	Engineering Mechanics Lab	2	0	0	2	100	
7	NAOE 110	Chemistry Lab	1	0	0	2	100	
8	PPHE 201	Physics Lab	1	0	0	2	100	
9	NAOE 112	Workshop Practice - II	1	0	0	3	100	
10	NAOE 114	Soft Skills - II	2	2	0	2	100	
11	NAOE 116	PT & Games	1	0	0	1	100	
			TOTAL: <u>30 Periods/week</u>					

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SEMESTER: III

Sr. No.	SUBJECT CODE	SUBJECT TITLE	C	L	T	P	M
1	NAOE 201	Engineering Mathematics – III	3	3	1	0	100
2	NAOE 203	Fundamentals of Naval Architecture	3	3	0	0	100
3	NAOE 205	Theory of Ships	3	3	0	0	100
4	BM 4003	Strength of Materials	3	3	0	0	100
5	BM 2004	Fluid Mechanics	3	3	0	0	100
6	NAOE 209	Marine Electrical Technology	3	3	0	0	100
7	NAOE 211	Marine Engineering – I	3	3	0	0	100
8	NAOE 213	Ship Design Calculation Drawing & Drafting – I SDCADD- I	2	0	0	2	100
9	NAOE 215	Electrical & Electronics Engineering Lab	1	0	0	2	100
10	BM3502	Fluid Mechanics Laboratory	2	0	0	2	100
11	NAOE 219	Soft Skills-III	2	2	0	0	100
TOTAL: 30 Periods/week							

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SEMESTER: IV

Sr. No.	SUBJECT CODE	SUBJECT TITLE	C	L	T	P	M
1	NAOE 202	Engineering Mathematics - IV	3	3	0	0	100
2	NAOE 204	Resistance of Ships	3	3	0	0	100
3	NAOE 206	Department Elective Subject	3	3	1	0	100
4	NAOE 208	Marine Materials and Metal Joining Techniques	3	3	0	0	100
5	NAOE 210	Strength of Ships	3	3	0	0	100
6	NAOE 212	Design of Machine Elements	3	3	0	0	100
7	NAOE 214	Marine Engineering – II	3	3	0	0	100
8	NAOE 216	Ship Design Calculation Drawing & Drafting – II SDCADD-II	2	0	0	2	100
9	NAOE 218	Marine Engineering Lab	1	0	0	2	100
10	BM 4502	Strength of Materials Laboratory	2	0	0	2	100
11	NAOE 220	Soft Skill-IV	2	2	0	0	100
DEPARTMENT ELECTIVE SUBJECT							
	A	Theory of Structures					
	B	Numerical Solution of ODE and PDE					
TOTAL: <u>30 Periods/week</u>							

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SEMESTER: V

Sr.No.	SUBJECT CODE	SUBJECT TITLE	C	L	T	P	M
1	NAOE 301	Wave Hydrodynamics	3	3	0	0	100
2	NAOE 303	Propulsion of Ships	3	3	0	0	100
3	NAOE 305	Marine Design	3	3	1	0	100
4	NAOE 307	Department Elective Subject	3	3	1	0	100
5	NAOE 309	Fundamentals of Offshore Structures	3	3	0	0	100
6	NAOE 311	Open Elective Subject	3	3	0	0	100
7	NAOE 313	Ship Design Calculation Drawing & Drafting – III SDCADD-III	2	0	0	2	100
8	NAOE 315	Software Lab – AVEVA MARINE- TRIBON	2	0	0	2	100
9	NAOE 317	Ship Visit/Report & Seamanship Lab	1	0	0	2	100
10	NAOE 319	Self study & Practical Design - I	2	0	2	2	100
DEPARTMENT ELECTIVE SUBJECT							
	A	Ship Production					
	B	Ship Repair & Conversion Technology					
OPEN ELECTIVE SUBJECT							
	A	Marine Transportation & Engineering Economics					
TOTAL:							<u>30 Periods/week</u>

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SEMESTER: VI

Sr. No.	SUBJECT CODE	SUBJECT TITLE	C	L	T	P	M
1	NAOE 302	Computational Marine Hydrodynamics	3	3	1	0	100
2	NAOE 304	Structural Design of Ships	3	3	1	0	100
3	NAOE 306	Structural Design of offshore Structures	3	3	1	0	100
4	NAOE 308	Department Elective Subject	3	3	0	0	100
5	NAOE 310	Sea keeping & Controllability of Ships and Offshore Structures	3	3	1	0	100
6	NAOE 312	Open Elective Subject	3	3	0	0	100
7	NAOE 314	Ship Design Calculation Drawing & Drafting – IV SDCADD-IV	2	0	0	2	100
8	NAOE 316	Software Lab – DnV SESAM	2	0	0	2	100
9	NAOE 318	Minor Project	2	0	0	2	100
10	NAOE 320	Self study & Practical Design - II	2	0	2	0	0
DEPARTMENT ELECTIVE SUBJECT							
	A	Advanced Offshore Engineering					
	B	Foundation of Offshore Structure					
OPEN ELECTIVE SUBJECT							
	A	Elements of Geo- Technical Engineering					
TOTAL:							<u>30 Periods/week</u>

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SEMESTER: VII

Sr. No.	SUBJECT CODE	SUBJECT TITLE	C	L	T	P	M
1	NAOE 401	Dynamics of Offshore Structures	3	3	1	0	100
2	NAOE 403	Constructability Of Offshore Structures	3	3	0	0	100
3	NAOE 405	Finite Element Analysis of Offshore Structures	3	3	1	0	100
4	NAOE 407	Quality Health Safety and Environmental Management	3	3	0	0	100
5	NAOE 409	Offshore Standards and Recommended Practices	3	3	0	0	100
6	NAOE 411	Dept. Elective Subject*	3	3	0	0	100
7	NAOE 413	Ship Design Calculation Drawing & Drafting – V SDCADD-V	2	0	0	2	100
8	NAOE 415	Software Lab- Primavera/ Nomitech-& PDMS	2	0	0	4	100
9	NAOE 417	Shipyards Training	2	0	0	2	100
10	NAOE 419	Major Project-Phase-I	1	0	0	2	100
DEPARTMENT ELECTIVE SUBJECT							
	A	Warship Design & Construction					
	B	Marine Robotics					
TOTAL:							<u>30 Periods/week</u>

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SEMESTER: VIII

Sr. No.	SUBJECT CODE	SUBJECT TITLE	C	L	T	P	M
1	NAOE 402	Production and Project Management	3	4	0	0	100
2	NAOE 404	Ocean Engineering Lab & Marine Hydrodynamics Lab	3	0	0	3	100
3	NAOE 406	Major Design Project-Phase-II	12	0	0	20	500
4	NAOE 408	Project Presentation	0	0	3	0	0
TOTAL: <u>30 Periods/week</u>							

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