



PSN COLLEGE OF ENGINEERING AND TECHNOLOGY
B.E. MARINE ENGINEERING
REGULATION – 2018
CHOICE BASED CREDIT SYSTEM



I TO VIII SEMESTERS CURRICULA

SEMESTER I

SL. NO.	COURSE CODE	COURSE TITLE	L	T	P	C	HOURS	CATEGORY
THEORY								
1	501001	Technical English	3	0	0	3	45	HS
2	501002	Elementary Mathematics for Engineers	3	0	0	3	45	BS
3	508001	Basic Thermodynamics	3	0	0	3	45	BS
4	508002	Basic Electrical & Electronics Engineering	3	0	0	3	45	ES
5	508003	Engineering Mechanics	3	0	0	3	45	ES
6	508004	Workshop Technology	3	0	0	3	45	BS
PRACTICALS								
7	508101	Geometrical Drawing	0	0	3	2	30	ES
8	508102	Electrical and Electronics Laboratory	0	0	3	2	30	ES
9	508103	Marine Workshop Practices	0	0	3	2	30	PC
TOTAL			18	0	9	24	360	

SEMESTER II

SL. NO.	COURSE CODE	COURSE TITLE	L	T	P	C	HOURS	CATEGORY
THEORY								
1		Engineering Mathematics –I	3	0	0	3	45	ES
2		Applied Thermodynamics	3	0	0	3	45	ES
3		Solid Mechanics	3	0	0	3	45	ES
4		Basics of Computer and Python Programming	3	0	0	3	45	ES
5		Theory of Machines - I	3	0	0	3	45	ES
6		Engineering Materials & Metallurgy	3	0	0	3	45	ES
PRACTICALS								
7		Solid Mechanics Laboratory	0	0	3	2	30	ES
8		Computer Programming Lab using Python	0	0	3	2	30	ES
9		Marine Engineering Machine Drawing	0	0	3	2	30	PC
TOTAL			18	0	9	24	360	

SEMESTER III

SL. NO.	COURSE CODE	COURSE TITLE	L	T	P	C	HOURS	CATEGORY
THEORY								
1		Engineering Mathematics - II	4	0	0	4	60	BS
2		Seamanship	3	0	0	3	45	PC
3		Theory of Machines - II	3	0	0	3	45	ES
4		Electrical Measurements & DC Machines	3	0	0	3	45	ES
5		Marine Refrigeration & Air Conditioning	3	0	0	3	45	PC
6		Marine Boiler & Steam Engineering	3	0	0	3	45	PC
7		Environmental Studies (# Mandatory Course)	3	0	0	2	30	HS
PRACTICALS								
8		Dynamics Laboratory	0	0	3	2	30	ES
9		Boat Building and Ship Modeling Laboratory	0	0	3	2	30	PC
10		Heat & Boiler Chemistry Laboratory	0	0	3	2	30	ES
TOTAL			19	0	9	25	405	

(# Mandatory Course credit not included in total credits)

SEMESTER IV

SL. NO.	COURSE CODE	COURSE TITLE	L	T	P	C	HOURS	CATEGORY
THEORY								
1		Non Destructive Testing	3	0	0	3	45	PC
2		Naval Architecture – I	3	0	0	3	45	PC
3		Ship Structure & Construction	3	0	0	3	45	PC
4		Marine Electronics	3	0	0	3	45	PC
5		Marine Hydraulics & Machineries	3	0	0	3	45	PC
6		AC Electrical Machines	3	0	0	3	45	ES
PRACTICALS								
7		Marine Hydraulics Laboratory	0	0	3	2	30	PC
8		Marine Electronics Laboratory	0	0	3	2	30	PC
9		Electrical Machines & Measurement Laboratory	0	0	3	2	30	ES
TOTAL			18	0	9	24	360	

SEMESTER V

SL. NO.	COURSE CODE	COURSE TITLE	L	T	P	C	HOURS	CATEGORY
THEORY								
1		Marine Internal Combustion Engine – I	3	0	0	3	45	PC
2		Marine Auxiliary Machines – I	3	0	0	3	45	PC
3		Marine Electrical Technology	3	1	0	4	60	PC
4		Naval Architecture – II	3	0	0	3	45	PC
5		Ship Fire Prevention & Control	3	0	0	3	45	PC
6		Human Rights and Value Education (#Mandatory Course)	3	0	0	2	30	HS
7		Open Elective –I	3	0	0	3	45	OE
PRACTICALS								
8		Fire Control Laboratory	0	0	3	2	30	PC
9		Marine Auxiliaries –I Laboratory	0	0	3	2	30	PC
10		Marine Machinery & System Design using CAD	0	0	3	2	30	PC
TOTAL			21	1	9	25	405	

(# Mandatory Course credit not included in total credits)

SEMESTER VI

SL. NO.	COURSE CODE	COURSE TITLE	L	T	P	C	HOURS	CATEGORY
THEORY								
1		Marine Internal Combustion Engine - II	3	0	0	3	45	PC
2		Practical Marine Automation	3	0	0	3	45	PC
3		Marine Automation & Control Engineering	3	0	0	3	45	PC
4		Ship Operation & Management	3	0	0	3	45	PC
5		Marine Auxiliary Machines – II	3	0	0	3	45	PC
6		£ Elective Paper – I	3	0	0	3	45	PE
7		Open Elective -II	3	0	0	3	45	OE
PRACTICALS								
8		Simulator Laboratory	0	0	3	2	30	PC
9		Marine Auxiliaries-II Laboratory	0	0	3	2	30	PC
TOTAL			21	0	9	25	375	

Note:

£ - Choice of subject selection shall be done by the Cadets.

SEMESTER VII

SL. NO.	COURSE CODE	COURSE TITLE	L	T	P	C	HOURS	CATEGORY
THEORY								
1		Maritime English (#Mandatory Course)	2	0	0	2	30	HS
2		Onboard Training & Assessment	As per Training Assessment Record (TAR) Book, DGS Guideline			12	AS per DGS Annexure -I	EEC
3		Viva Voce				6		
4		Voyage Trip & Report				6		
TOTAL			2	0	0	24	1399	

(# Mandatory course credit not included in total credits)

SEMESTER VIII

SL. NO.	COURSE CODE	COURSE TITLE	L	T	P	C	HOURS	CATEGORY
THEORY								
1		IMO & Maritime Convention	4	0	0	4	60	PC
2		STCW & Class IV Preparation	4	0	0	4	60	PC
3		^{ff} Elective Paper – II	3	0	0	3	45	PE
4		Offshore Technology	3	0	0	3	45	PC
PRACTICALS								
5		Project Work	0	0	12	8	120	EEC
TOTAL			17	0	12	22	330	

Note:

^{ff} Choice of subject selection shall be done by the Cadets.

ELECTIVES FOR B.E. MARINE ENGINEERING SEMESTER VI, ELECTIVE I

SL. NO.	COURSE CODE	COURSE TITLE	L	T	P	C	HOURS	CATEGORY
THEORY								
1		Pressure Vessels and Piping	3	0	0	3	45	PE
2		Logistics and Supply Chain Management	3	0	0	3	45	PE
3		Ship Safety and Environmental Protection	3	0	0	3	45	PE
4		Marine Propellers & Propulsion	2	0	0	2	30	PE
5		Total Quality Management	2	0	0	2	30	PE
6		Marine Structure and Welding	2	0	0	2	30	PE
7		Advanced Material Science	1	0	0	1	15	PE
8		Surface Coating Engineering	1	0	0	1	15	PE
9		Marine Tribology	1	0	0	1	15	PE

**ELECTIVES FOR B.E. MARINE ENGINEERING
SEMESTER VIII, ELECTIVE II**

SL. NO.	COURSE CODE	COURSE TITLE	L	T	P	C	HOURS	CATEGORY
THEORY								
1		Engine Room Management	3	0	0	3	45	PE
2		Special Duty Vessel & Type of Operation	3	0	0	3	45	PE
3		Advanced Marine Technology	3	0	0	3	45	PE
4		Marine Corrosion & Prevention	2	0	0	2	30	PE
5		Marine Robotics	2	0	0	2	30	PE
6		Special Duty Vessels and Type of Operations	2	0	0	2	30	PE
7		Marine Disaster Management	1	0	0	1	15	PE
8		Advanced Marine Heat Engines	1	0	0	1	15	PE
9		Foundation Skills in Integrated Product Development	1	0	0	1	15	PE

**OPEN ELECTIVES OFFERED BY B.E. MARINE ENGINEERING TO OTHER ENGINEERING DEPARTMENTS
SEMESTER V & SEMESTER VI**

SL. NO.	COURSE CODE	COURSE TITLE	L	T	P	C	HOURS	CATEGORY
THEORY								
1		Introduction to Marine Engineering	3	0	0	3	45	OE
2		Shipping and Port Management	3	0	0	3	45	OE
3		Introduction to Offshore & Harbor Engineering	3	0	0	3	45	OE