

PSN COLLEGE OF ENGINEERING AND TECHNOLOGY

(An Autonomous Institution)



Department of Marine Engineering

Approved by DGS & AICTE, Accredited by NBA and Recognized by UGC u/s 2(f)

Melathediyoor, Palayamkottai (TK), Tirunelveli (DT), Pin: 627 152

AN ISO 9001:2008 CERTIFIED INSTITUTION

GRADED FOR BENCH MARKING



R- 2013

B.E Marine Engineering - First Semester

Sl. No	Course Code	Course Title	L	T	P	C	Periods
THEORY							
1	108001	Communicative English & Sociology	3	1	0	3	60
2	108002	Mathematics -I	3	1	0	3	60
3	108003	Basic Thermodynamics	3	1	0	3	60
4	108004	Basic Electrical & Electronics Engineering	3	1	0	3	60
5	108005	Engineering Mechanics	3	1	0	3	60
6	108006	Workshop Technology	3	1	0	3	60
PRACTICAL							
7	108101	Geometrical Drawing	1	0	3	2	60
8	108102	Electrical & Electronics Laboratory	0	0	3	2	45
9	108103	Workshop -I	0	0	4	2	60
10	108401	Credit Group (Marks)					
TOTAL			19	6	10	24	525

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B.E Marine Engineering - Second Semester

Sl. No	Course Code	Course Title	L	T	P	C	Periods
THEORY							
1	108007	Basic Marine Engineering	3	1	0	3	60
2	108008	Mathematics –II	3	1	0	3	60
3	108009	Applied Thermodynamics – I	3	1	0	3	60
4	108010	Strength of Material	3	1	0	3	60
5	108011	Computer Science	3	1	0	3	60
6	108012	Kinematic of Machinery	3	1	0	3	60
PRACTICAL							
7	108104	Strength of Material Laboratory	0	0	3	2	45
8	108105	Computer Laboratory	0	0	3	2	45
9	108106	Workshop – II	0	0	4	2	60
10	108402	Credit Group (Marks)					
TOTAL			18	6	10	24	510

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B.E Marine Engineering - Third Semester

Sl. No	Course Code	Course Title	L	T	P	C	Periods
THEORY							
1	108013	Applied Mathematics	3	1	0	3	60
2	108014	Seaman ship	3	1	0	3	60
3	108015	Applied Thermodynamics – II	3	2	0	3	75
4	108016	Dynamics of Machines	3	1	0	3	60
5	108017	Material Science	3	1	0	3	60
6	108018	Electrical Machines – I	3	1	0	3	60
PRACTICAL							
7	108107	Engineering & Machine Drawing	1	0	3	2	60
8	108108	Dynamics Laboratory	0	0	3	2	45
9	108109	Workshop – III	0	0	3	2	45
10	108403	Credit Group (Marks)					
TOTAL			19	7	9	25	525

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B.E Marine Engineering - Fourth Semester

Sl. No	Course Code	Course Title	L	T	P	C	Periods
THEORY							
1	108019	Ship Structure & Construction	3	2	0	4	75
2	108020	Marine Boiler & Steam Engineering	3	2	0	4	75
3	108021	Mechanics of Machines	3	1	0	3	60
4	108022	Electrical Machines - II	3	1	0	3	60
5	108023	Marine Refrigeration & Air Conditioning	3	2	0	4	75
6	108024	Marine Electronics	3	1	0	3	60
PRACTICAL							
7	108110	Marine Engineering Drawing	1	0	3	2	60
8	108111	Electronics Laboratory	0	0	3	2	45
9	108112	Heat & Boiler Chemical Laboratory	0	0	3	2	45
10	108404	Credit Group (Marks)					
TOTAL			19	9	9	27	555

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B.E Marine Engineering - Fifth Semester

Sl. No	Course Code	Course Title	L	T	P	C	Periods
THEORY							
1	108025	Marine Internal Combustion Engine – I	3	2	0	4	75
2	108026	Marine Auxiliary Machines – I	3	2	0	4	75
3	108027	Naval Architecture – I	3	2	0	4	75
4	108028	Fluid Mechanics & Machinery	3	1	0	3	60
5	108029	Practical Marine Automation	3	1	0	3	60
6	108030	Total Quality Management	3	1	0	3	60
PRACTICAL							
7	108113	Control Engineering Laboratory	0	0	3	2	45
8	108114	Mechanics & Fluid Laboratory	0	0	4	2	60
9	108115	Marine Power Plant Operation - I	0	0	3	2	45
10	108405	Credit Group (Marks)					
TOTAL			18	11	10	24	555

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B.E Marine Engineering - Sixth Semester

Sl. No	Course Code	Course Title	L	T	P	C	Periods
THEORY							
1	108031	Ship Fire Prevention & Control	3	1	0	3	60
2	108032	Marine Internal Combustion Engine - II	3	2	0	4	75
3	108033	Marine Electrical Technology	3	1	0	3	60
4	108034	Naval Architecture – II	3	2	0	4	75
5	108035	Marine Auxiliary Machines – II	3	2	0	4	75
6	£ 108030	Elective Paper – I	3	1	0	3	60
PRACTICAL							
7	108116	Fire Control Laboratory	0	0	4	2	60
8	108117	Electrical Machine Laboratory	0	0	3	2	45
9	108118	Marine Power Plant Operation – II	0	0	4	2	60
10	108405	Credit Group (Marks)					
TOTAL			18	9	11	27	570

Note:

£ - Select from the Elective Paper's List for Semester – VI by the Cadets.

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B.E Marine Engineering - Seventh Semester

Sl. No	Course Code	Course Title	L	T	P	C	Periods
PRACTICAL							
On Board training							
1	108113	ON BOARD & Training Assessment	6 Months (1152 Hrs)*			6	6 Months (1152 Hrs)*
2	108601	Viva Voce				2	
3	108114	Voyage Trip & Report				4	
4	108115	Environmental Projects				2	
5	108801	Maritime English (Mandatory Course)				#2	
TOTAL						14	45 hrs for Maritime English

*24 Weeks / Semester X 6 Days / Week = 144 Days / Semester

144 Days / Semester X 8 Hrs / Day = 1152 Hrs / Semester

(# Mandatory course credit not included in the total credit)

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R- 2013

B.E Marine Engineering - Eighth Semester

Sl. No	Course Code	Course Title	L	T	P	C	Periods
THEORY							
1		Ship Operation & Management	3	1	0	3	60
2		Advanced Marine Control & Automation	3	2	0	4	75
3		STCW & Class IV Preparation	3	1	0	4	60
4		IMO & Maritime Convention	3	1	0	3	60
5		Elective Paper – II [£]	3	1	0	3	60
PRACTICAL							
6		Marine Machinery & System Design	1	0	3	2	60
7		Control & Simulator Laboratory	0	0	3	2	45
8		Technical Paper & Projects	0	0	12	6	180
9		Credit Group (Marks)					
10		Carryover Credit Group from I to VI Semester (Marks)					
TOTAL			16	7	18	27	615

Note:

£ - Select from the Elective Paper's List for Semester – VIII by the Cadets.

Total Credits to be earned for the award of Degree: 196

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B.E Marine Engineering – Elective Paper’s List

(Elective Paper for the respective Semester shall be selected by the Cadets)

Elective Paper – I (For Sixth Semester)		
Sl. No	Course Code	Course Title
1	108201	Advanced Material Science & Surface Coating
2	180202	Shipping & Port Management
3	108203	Dry Docks & Docking
4	108204	Marine Construction & Welding
5	108205	Offshore Technology
Elective Paper – II (For Eighth Semester)		
1	108206	Engine Room Management
2	108207	Special Duty Vessel & Type of Operation
3	108208	Marine Corrosion & Prevention
4	108209	Advanced Marine Technology
5	108210	Marine Propeller & Propulsion