



**PSN COLLEGE OF ENGINEERING AND TECHNOLOGY**

**(Autonomous)**

**Melathediyoor, Tirunelveli – 627 152**

**Department of *MARINE* Engineering**



**B.E – MARINE ENGINEERING (R 2012)**

**SEMESTER - I**

S.No	Course code	Course title	L	T	P	C	Periods
<b>THEORY</b>							
1	000051	English for Engineers- I	3	1	0	3	60
2	000052	Fundamentals of Computers	3	0	0	3	45
3	000053	Ethics & Values	2	0	0	2	30
4	000054	Engineering Physics - I	3	0	0	3	45
5	000055	Engineering Chemistry - I	3	0	0	3	45
6	000056	Engineering mathematics - I	4	1	0	4	75
7	000057	Basic Electrical & Electronics	3	0	0	3	45
<b>PRACTICAL</b>							
8	000101	Physics & Chemistry Lab - I	0	0	3	2	45
9	000102	Computer Lab – I	0	0	3	2	45
10	000103	Electrical & Electronics Lab	0	0	3	2	45
<b>TOTAL</b>			<b>21</b>	<b>2</b>	<b>9</b>	<b>27</b>	<b>480</b>



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**SEMESTER - II**

S.No	Course code	Course title	L	T	P	C	Periods
<b>THEORY</b>							
1	000058	English for Engineers- I	3	0	0	3	45
2	000059	Environmental Studies	2	0	0	2	30
3	000060	Engineering Graphics	4	0	0	4	60
4	000061	Engineering Physics - II	3	0	0	3	45
5	000062	Engineering Chemistry - II	3	0	0	3	45
6	000063	Engineering mathematics - II	4	1	0	4	75
7	000064	Basic Civil & Mechanical Engineering	3	0	0	3	45
<b>PRACTICAL</b>							
8	000104	Physics & Chemistry Lab - I	0	0	3	2	45
9	000105	Computer Lab – I	0	0	3	2	45
10	000106	Workshop Practice	0	0	3	2	45
<b>TOTAL</b>			<b>21</b>	<b>1</b>	<b>9</b>	<b>28</b>	<b>480</b>



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**SEMESTER - III**

S.No	Course code	Course title	L	T	P	C	Periods
<b>THEORY</b>							
1	008001	Applied Mathematics - I	3	1	0	3	60
2	008002	Engineering Mechanics	4	0	0	4	60
3	008003	Marine Engineering Thermodynamics	3	0	0	3	45
4	008004	Production Technology	3	0	0	3	45
5	008005	Marine Electrical Machines - I	3	0	0	3	45
6	008006	Seamanship and Elements of Navigation and Survival at Sea	3	0	0	3	45
7	008007	Material Science	3	0	0	3	45
<b>PRACTICAL</b>							
8	008101	Marine Machinery Drawing	1	0	3	2	60
9	008102	Welding Techniques, Lathe and Special Machine Shop Lab	0	0	3	2	45
10	008103	Electrical Machines Lab	0	0	3	2	45
<b>TOTAL</b>			<b>23</b>	<b>1</b>	<b>10</b>	<b>28</b>	<b>495</b>



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B.E – MARINE ENGINEERING (R 2012)

SEMESTER - IV

S.NO	course code	course title	L	T	P	C	Periods
<b>THEORY</b>							
1	008008	Applied Mathematics - II	3	0	0	3	45
2	002007	Strength of Materials	4	0	0	3	60
3	008009	Marine Hydraulics & Fluid Mechanics	3	0	0	3	45
4	008010	Marine Heat Engines	3	0	0	3	45
5	008011	Marine Diesel Engines - I	3	0	0	3	45
6	008012	Mechanics of Machines - I	3	0	0	3	45
7	008013	Electrical Machines - II	3	0	0	3	45
<b>PRACTICAL</b>							
8	008104	Strength of Materials & Applied Mechanics Lab	0	0	4	2	60
9	008105	Marine Hydraulics & Fluid Mechanics lab	0	0	3	2	45
10	008106	Marine Heat Engines Lab and Boiler Chemistry Lab	0	0	4	2	60
<b>TOTAL</b>			<b>22</b>	<b>0</b>	<b>11</b>	<b>27</b>	<b>495</b>



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**B.E – MARINE ENGINEERING (R 2012)**

**SEMESTER - V**

S.NO	course code	course title	L	T	P	C	Periods
<b>THEORY</b>							
1	008014	Marine Auxiliary Machinery I	3	0	0	3	45
2	008015	Naval Architecture I	3	1	0	3	60
3	008016	Marine Diesel Engines II	3	0	0	3	45
4	008017	Mechanics of Machines - II	3	0	0	3	45
5	008018	Marine Refrigeration and Air Conditioning	3	0	0	3	45
6	008019	Ship Construction	3	0	0	3	45
7	008020	Marine Electronics	3	0	0	3	45
<b>PRACTICAL</b>							
8	008107	Measurements Lab, Instrumentation Lab and Refrigeration Lab	0	0	4	2	60
9	008108	Electronics and Micro Processor Lab	0	0	3	2	45
10	008109	Computer Aided Marine Engineering Design and Analysis Lab	2	0	3	2	45
<b>TOTAL</b>			<b>23</b>	<b>1</b>	<b>10</b>	<b>27</b>	<b>480</b>



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**B.E – MARINE ENGINEERING (R 2012)**

**SEMESTER - VI**

S.NO	course code	course title	L	T	P	C	Periods
<b>THEORY</b>							
1	008021	Marine Auxiliary Machinery II	3	0	0	3	45
2	008022	Naval Architecture II	2	2	0	3	60
3	008023	Marine Machine Design & Marine Machinery System	2	2	0	3	60
4	008024	Marine Electrical Technology	3	0	0	3	45
5	008025	Marine Boilers & Steam Engineering	3	0	0	3	45
6	008026	Ship's Fire Prevention & Control	3	0	0	3	45
7	008203	Marine Propellers & Propulsion (ELECTIVE – I)	3	0	0	3	45
<b>PRACTICAL</b>							
8	008110	Fire Fighting Lab, Controls Lab and Simulator Lab	0	0	4	2	60
9	008111	Marine Propulsion & Auxiliary Machineries Overhauling Lab	0	0	4	2	60
10	008112	Communication Skills Laboratory	0	0	3	2	45
<b>TOTAL</b>			<b>19</b>	<b>4</b>	<b>12</b>	<b>27</b>	<b>510</b>



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**B.E – MARINE ENGINEERING (R 2012)**

**SEMESTER - VII**

S.NO	course code	course title	L	T	P	C	Periods
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<b>PRACTICAL</b>							
1	008113	On-Board & Training Assessment	<b>6 Months (1107 +45 Hrs)</b>			<b>6</b>	<b>6 Months (1107 +45 Hrs)</b>
2	008601	Viva-Voce				<b>2</b>	
3	008114	Voyage Trip & Report				<b>4</b>	
4	008115	Environmental Projects				<b>2</b>	
5	008801	Maritime English				<b>2</b>	
Total						<b>16</b>	



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**B.E – MARINE ENGINEERING (R 2012)**

**SEMESTER - VIII**

S.NO	course code	course title	L	T	P	C	Periods
<b>THEORY</b>							
1	008027	Ship Operational Management	3	0	0	3	45
2	008028	Advanced Marine Control & Automation	4	1	0	4	60
3	008029	STCW & Class IV Preparation	4	1	0	4	60
4	008030	IMO & Maritime Convention	3	0	0	3	45
5	008206	Advanced Marine Technology (Elective – II)	3	0	0	3	45
<b>PRACTICAL</b>							
6	008116	Marine Machinery & System & Design	0	0	3	2	45
7	008117	Project Work, Technical Paper & Viva Voce	0	0	12	6	180
<b>TOTAL</b>			<b>15</b>	<b>0</b>	<b>14</b>	<b>21</b>	<b>480</b>





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**LIST OF ELECTIVE SUBJECTS**

<b>Course Code</b>	<b>List of Electives Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>ELECTIVE - I</b>					
008201	Total Quality Management	3	0	0	3
008202	Double Hull Tankers	3	0	0	3
008203	Marine Propellers & Propulsion	3	0	0	3
008204	Advanced Marine Heat Engines	3	0	0	3
008205	Super Charging & Scavenging in Marine Diesel Engines	3	0	0	3
<b>ELECTIVE - II</b>					
008206	Advanced Marine Technology	3	0	0	3
008207	Marine Construction & Welding	3	0	0	3
008208	Dry Docks & Docking	3	0	0	3
008209	Special Duty Vessel & Type of Operation	3	0	0	3
008210	Engine Room Management	3	0	0	3