

# PAKISTAN MARINE ACADEMY

## SCHEME OF STUDIES

for

### ASSOCIATE DEGREE PROGRAMME IN MARINE ENGINEERING

1<sup>st</sup> Year

Semester-I

Course Code	Course Title	Cr Hrs
	<b>Academic</b>	
ED-101	English-I	3
ED-102	Pakistan Studies	1
ED-103	Physics(Theory)-I	3
ED-105	Physics(Practical)-I	1
ED-104	Mathematics-I	3
	<b>Professional</b>	
EG-151	General Engineering Knowledge-I	2
EG-152	Workshop(Theory & Practice)-I	4
EG-153	Applied Mechanics-I	1
EG-154	Applied Thermodynamics-I	1
EG-155	Electro Technology-I	2
EG-156	Machine Drawing-I	3
EG-157	Internal Combustion Engines-I	1
EG-158	Naval Architecture & Ship Construction-I	1
GT-161	Computer Familiarization-I	1
	<b>Total</b>	<b>27</b>
	<b>Non Credit Courses</b>	
GT-162	Officer Like Qualities-I	2

Semester-II

Course Code	Course Title	Cr Hrs
	<b>Academic</b>	
ED-201	English-II	3
ED-202	Islamic Studies	1
ED-203	Physics(Theory)-II	3
ED-205	Physics(Practical)-II	1
ED-204	Mathematics-II	3
	<b>Professional</b>	
EG-251	General Engineering Knowledge-II	2
EG-252	Workshop(Theory & Practice)-II	4
EG-253	Applied Mechanics-II	1
EG-254	Applied Thermodynamics-II	1
EG-255	Electro Technology-II	2
EG-256	Machine Drawing-II	3
EG-257	Internal Combustion Engines-II	1
EG-258	Naval Architecture & Ship Construction-II	1
GT-261	Computer Familiarization-II	1
	<b>Total</b>	<b>27</b>
	<b>Non Credit Courses</b>	
GT-262	Officer Like Qualities-II	2

## 2<sup>nd</sup> Year

### Semester-III

Course Code	Course Title	Cr Hrs
	<b>Academic</b>	
ED-301	English-III	3
ED-302	Personal & Organizational Management	1
ED-303	Chemistry(Theory)-I	3
ED-305	Chemistry(Practical)-I	1
ED-304	Mathematics-III	3
	<b>Professional</b>	
EG-351	General Engineering Knowledge-III	2
EG-352	Workshop(Theory & Practice)-III	4
EG-353	Applied Mechanics-III	2
EG-354	Applied Thermodynamics-III	2
EG-355	Electro Technology, Instrumentation Control System-III	2
EG-356	Machine Drawing-III	3
EG-357	Internal Combustion Engines-III	1
EG-358	Naval Architecture & Ship Construction-III	1
GT-361	Computer Familiarization-III	1
	<b>Total</b>	<b>29</b>
	<b>Non Credit/Mandatory Courses</b>	
GT-362	Officer Like Qualities-III	2
MC-391	Personal Safety & Social Responsibility	1
MC-392	Elementary First Aid	1
MC-393	Tanker Familiarization	1

### Semester-IV

Course Code	Course Title	Cr Hrs
	<b>Academic</b>	
ED-401	English-IV	3
ED-402	International & Legal Maritime Studies	1
ED-403	Chemistry(Theory)-II	3
ED-405	Chemistry(Practical)-II	1
ED-404	Mathematics-IV	3
	<b>Professional</b>	
EG-451	General Engineering Knowledge-IV	2
EG-452	Workshop(Theory & Practice)-IV	4
EG-453	Applied Mechanics-IV	2
EG-454	Applied Thermodynamics-IV	2
EG-455	Electro Technology, Instrumentation Control System-IV	2
EG-456	Machine Drawing-IV	3
EG-457	Internal Combustion Engines-IV	1
EG-458	Naval Architecture & Ship Construction-IV	1
GT-461	Computer Familiarization-IV	1
	<b>Total</b>	<b>29</b>
	<b>Non Credit/Mandatory Courses</b>	
GT-462	Officer Like Qualities-IV	2
MC-491	Personal Survival Techniques	1
MC-492	Basic Fire Fighting	1

## SUMMARY OF THE ASSOCIATE DEGREE PROGRAMME

S.NO	Category	No. of Courses	Credit Hours	% age of total Cr Hrs
1	Academic/Compulsory	24	48	43%
2	Foundation Courses	20	48	43%
3	Professional	12	16	14%
	<b>Total</b>	<b>56</b>	<b>112</b>	<b>100</b>
5	Non Credit/Mandatory Courses	9	13	-

- Total number of Credit Hours 112
- Duration of the Associate Degree 2 years
- Semester Duration 20 weeks
- Semesters 4
- Course Load per Semester 27-29 Cr Hrs
- Average number of Courses per Semester 14 Courses/Semester