

INTRODUCTION TO THE PROGRAMME & DETAILS

Name of the Programme : Associate Degree in Nautical Science(ADNS)

Offered At: Pakistan Marine Academy, Karachi

Programme Nature : Full time (Residential)

Eligibility Criteria for Admission:

- i) Must be unmarried male citizen of Pakistan
- ii) At least 55% marks in HSSC(Pre-Engineering)/equivalent examination with Physics, Mathematics & Chemistry
- iii) Maximum 20 years of age by 31st December of the year when application is submitted. One (01) year relaxation for candidates belonging to FATA, Gilgit /Baltistaan and Azad Kashmir
- iv) Must have qualified the defined pre-admission entry test
- v) Medically fit as per the criteria approved by the Ministry of Ports & Shipping
- vi) Merit will be based on 50% Entry Test + 50% HSSC %age

Intake: Once a year,75 on open merit and 10 on self-finance

Regulations: Academic Regulations for Associate Degree Programme-2017

Commencement: First semester- Spring January

Duration of theProgramme: 2 years/4 semesters

Total No. of Credit Hours: 77

No. ofCourses: 30

**APPROVED SCHEME OF STUDIES
FOR
ASSOCIATE DEGREE IN NAUTICAL SCIENCE**

												FIRST YEAR											
Spring Semester						Fall Semester																	
Course Code	Course Title	Credit Hours			MKS	Cont Hrs	Th	Pr	Tot	Course Code	Course Title	Credit Hours			MKS	Cont Hrs	Th	Pr	Tot	MKS			
		Th	Pr	Tot								Th	Pr	Tot									
ED-101	Pakistan Studies	1	0	1	100	1	0	1	ED-151 / 152	Islamic Studies/ Ethical Behaviour	1	0	1	100	0	1	0	1	100				
ED-102	Applied Physics	3	1	4	100	3	2	5	ED-153	Applied Chemistry	3	1	4	100	2	3	2	5	100				
ED-103N	Mathematics-I	3	0	3	100	3	0	3	ED-154	Mathematics-II	3	0	3	100	0	3	0	3	100				
NS-111	Principles of Navigation-I	3	0	3	100	3	0	3	NS-161	Principles of Navigation-II	3	0	3	100	0	3	0	3	100				
NS-112	Ocean & Offshore Navigation-I	3	0	3	100	3	0	3	NS-162	Ocean & Offshore Navigation-II	3	0	3	100	0	3	0	3	100				
NS-113	Seamanship-I	1	1	2	100	1	2	3	NS-163	Seamanship-II	1	1	2	100	2	1	2	3	100				
NS-114	Marine Communication-	2	1	3	100	2	2	4	NS-164	Marine Meteorology	3	0	3	100	0	3	0	3	100				
NS-115	General Ship Knowledge-I	3	0	3	100	3	0	3	NS-165	General Ship Knowledge-II	3	0	3	100	0	3	0	3	100				
	Total	19	3	22	800	19	6	25		Total	20	2	22	800	4	20	4	24	800				
												Non Credit Courses											
GT-121	Officer Like Qualities-I **								GT-171	Officer Like Qualities-II **													
GT-122	Functional English-I *	2	0	2	100	2	0	2	GT-172	Functional English-II *	2	0	2	100	0	2	0	2	100				
* Academic Course																							
**General Training assed by a Board at the end of each Semester																							

SECOND YEAR

SECOND YEAR

Course Code	Spring Semester										Fall Semester						
	Course Title	Credit Hours			Cont Hrs			MKS	Course Code	Course Title	Credit Hours			Cont Hrs			MKS
		Th	Pr	Tot	Th	Pr	Tot				Th	Pr	Tot	Th	Pr	Tot	
ED-201	Business Communication-I	3	0	3	3	0	3	100	ED-251	Business Communication-II	3	0	3	3	0	3	100
ED-202	Computer Programming & Applications	1	1	2	1	2	3	100	ED-###	Elective	1	0	1	1	0	1	100
NS-211	Seamanship-III	2	0	2	2	0	2	100	NS-261	Seamanship-IV	2	0	2	2	0	2	100
NS-212	Coastal Navigation-I	0	3	3	0	6	6	100	NS-262	Coastal Navigation-II	0	3	3	0	6	6	100
NS-213	General Ship Knowledge-III	3	0	3	3	0	3	100	NS-263	General Ship Knowledge-IV	3	0	3	3	0	3	100
NS-214	Watchkeeping-I	1	0	1	1	0	1	100	NS-264	Watchkeeping-II	1	0	1	1	0	1	100
NS-215	Radar Navigation	3	0	3	3	0	3	100	NS-265	Electronic Navigation Systems	3	0	3	3	0	3	100
	Total	13	4	17	13	8	21	700		Total	13	3	16	13	6	19	700

Non Credit/Mandatory Courses																	
GT-221	Officer Like Qualities-III**								GT-271	Officer Like Qualities-IV**							
GT-291	Personal Safety & Social Responsibility *								GT-294	Personal Survival Techniques *							
GT-292	Elementary First Aid *								GT-295	Basic Fire Fighting *							
GT-293	Tanker Familiarization *																

Elective Courses

ED-252- International & Legal Maritime Studies(ILMS) ED-253 - Personal & Organizational Management

* Mandatory Short Professional courses (3-5 Days)

**General Training assed by a Board at the end of each Semester

**SUMMARY OF THE ASSOCIATE DEGREE PROGRAMME IN
NAUTICAL SCIENCE**

S.NO	Category	No. of Courses	Credit Hours	% age of total Cr Hrs
1	Academic/Compulsory Courses	4	8	10.3
2	Foundation Courses	13	40	52.0
3	Professional Courses	10	28	36.4
4	Elective Courses	1	1	1.3
	Total	28	77	100%
	Theory		64	83.12
	Practical		13	16.88

- Total number of Credit Hours 77
- Duration of the Associate Degree 2 years
- Semester Duration 20 weeks
- Semesters 4
- Course Load per Semester(except non-credit) 18-20 Cr Hrs

Average number of Courses per Semester 7-8 Courses/Semester