3	Chemistry I	Scientific - Humanistic	3	N/T
4	General biology	Specialty	3	N/T
5	Graphic Expression I	Scientific - Humanistic	2	N/T
6	Materials science	Specialty	3	N/T
		SUBTOTAL	19	
	English			
		II SEMESTER		
No	NAME	TRAINING CAMP	CR	PREREQUISITES
7	Mathematics II	Scientific - Humanistic	4	Mathematics I
8	physics II	Scientific - Humanistic	4	Physics I
9	chemistry II Marine facilities	Scientific - Humanistic Specialty	3	Chemistry I N/T
10 11	Marine racilities	Specialty	3	General biology
12	Applied Computing	Scientific - Humanistic	2	N/T
	. pp.ica company	SUBTOTAL	19	14/1
_		TOTAL	38	
	English			
		P	+ +	
	SI	JMMER COURSE (1)		
No	NAME	TRAINING CAMP	CR	PREREQUISITES
13	Marine and Coastal Resources	Specialty	3	Marine ecology
-	Maritime Geography of Panama and the	Scientific - Humanistic	2	N/T
14	World	I		
_		Scientific - Humanistic	3	N/T
14	World	Scientific - Humanistic Scientific - Humanistic	3 2	N/T N/T

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	TOTAL	48	

SECOND YEAR

		III SEMESTER		
No	NAME	TRAINING CAMP	CR	PREREQUISITES
17	Mathematics III	Scientific - Humanistic	4	Mathematics II
18	Elective subject		3	N/T
19	Instrumental techniques Environmental Analysis	Scientific - Humanistic	3	N/T
20	Material resistance	Scientific - Humanistic	3	Materials science
21	Thermodynamics	Specialty	4	physics II
22	Environmental technology	Specialty	3	N/T
	-	SUBTOTAL	20	
		TOTAL	68	
	English			
		IV SEMESTER		
No	NAME	TRAINING CAMP	CR	PREREQUISITES
23	Higher Mathematics for Engineers	Scientific - Humanistic	4	Mathematics III
24	Environmental Engineering I	Specialty	4	Building Materials I
25	Electrical engineering and electronics	Specialty	3	Physics II
26	Effluent Treatment and Waste Emissions	Specialty	3	Chemistry II
27	Environmental economics	Specialty	3	Basic administration
28	Marine contamination	Specialty	3	Marine facilities
	English		1 1	
	-	SUBTOTAL	20	
		1		

	5	SUMMER COURSE (2)		
No	NAME	TRAINING CAMP	CR	PREREQUISITES
29	Evaluation of Environmental Pollution	Specialty	3	Marine contamination
30	Elective subject		3	N/T
31	Basic Statistics	Scientific - Humanistic	3	Mathematics III
32	General Accounting	Scientific - Humanistic	3	N/T
	-	SUBTOTAL	12	
		TOTAL	100	Indice

THIRD YEAR

		V SEMESTER		
No	NAME	TRAINING CAMP	CR	PREREQUISITES
33	Applied Statistics	Scientific - Humanistic	3	Basic Statistics
34	Meteorology and Oceanography	Specialty	4	Instrumental techniques Environmental Analysis
35	Water treatment	Specialty	3	Effluent Treatment and Waste Emissions
36	Marine geology	Specialty	3	N/T
37	Elective subject	Specialty	3	N/T
38	Environmental Engineering II	Specialty	3	Environmental Engineering I
		SUBTOTAL	19	
		-	119	
		VI SEMESTER		
No	NAME	TRAINING CAMP	CR	PREREQUISITES
39	Process and Product Engineering	Specialty	4	Environmental Engineering I
40	Environmental Toxicology and Public Health	Specialty	3	Evaluation of Environmental Pollution
41	Air and noise pollution	Specialty	3	Meteorology and Oceanography
42	Maritime Environmental Management	Specialty	3	Marine ecology
43	Coastal infrastructure	Specialty	3	Marine geology
44	Formulation and Evaluation of Marine Projects	Administrativo-Gerencial	3	General Accounting

		SUBTOTAL	19	
		TOTAL	138	
		•		
		SUMMER COURSE (3)		
No	NAME	TRAINING CAMP	CR	PREREQUISITES
46	Shipboard Pollution Prevention	Specialty	4	Marine contamination
47	Panama Canal Engineering I	Specialty	3	N/T
48	Elective subject		3	N/T
49				
	•	SUBTOTAL	10	

FOURTH YEAR

		VII SEMESTER		
Nº	NAME	TRAINING CAMP	CR	PREREQUISITES
50	Fundamentals of Industrial Safety	Specialty	3	N/T
51	Investigation methodology	Scientific - Humanistic	3	N/T
52	Ships - tank	Specialty	3	Marine facilities
53	Climate change	Specialty	3	N/T
54	Panama Canal Engineering II	Specialty	3	Panama Canal Engineering I
55	Environmental impact on marine and coastal systems	Specialty	3	Maritime Environmental Management
	-	SUBTOTAL	18	
		TOTAL	166	
	•	VIII SEMESTER		
No	NAME	TRAINING CAMP	CR	PREREQUISITES
56	Natural hazards	Specialty	4	Climate change
57	Hydrology and Hydraulics	Specialty	4	N/T
58	Renewable energy	Specialty	4	Process and Product Engineering
59	Technical English (Maritime- Environmental)	Specialty	4	N/T
60	Elective subject		3	N/T
	<u> </u>			
		SUBTOTAL	19	
		TOTAL	185	

FIFTH YEAR

IX SEMESTER

No	NAME	TRAINING CAMP	CR	PREREQUISITES
61	Moral and ethic	Scientific - Humanistic	3	N/T
62	Elective subject		2	N/T
63	Graduation work (Thesis , Professional Practice or Graduate Courses)	Specialty	12	Eight semesters approved
		SUBTOTAL	17	
		TOTAL	202	

No	NAME	TRAINING CAMP	CR	PREREQUISITES
	Seminars Maritime		3	N/T
	Panama Canal expansion project		3	N/T
	Chemical technology		3	N/T
	Printing Technology		3	N/T
	Update on Marine Environmental Engineering		3	N/T
	Electives Other Races		3	N/T
	Environmental legislation and Maritime		3	N/T
	Environmental education		3	N/T
	Information systems		3	N/T
	Limnology		3	N/T
	Marine Environmental Audits		3	N/T
	Marine microbiology		3	N/T
	Update on Marine Environmental Engineering		3	N/T
	Electives of Other Races		3	N/T