

FIRST YEAR

I SEMESTER

Nº	CODE	NAME	TRAINING CAMP	CR
1	430	Linear Algebra I	Scientific - Humanistic	4
2	616	Infinitesimal Calculus I	Scientific - Humanistic	4
3	418	physics I	Scientific - Humanistic	4
4	417	chemistry I	Scientific - Humanistic	3
5	410	Graphic Expression I	Scientific - Humanistic	3
6	422	Applied Computing	Scientific - Humanistic	2
			SUBTOTAL	20
---		English	---	---

II SEMESTER

Nº	CODE	NAME	TRAINING CAMP	CR
7	433	Linear Algebra II	Scientific - Humanistic	4
8	617	Infinitesimal Calculus II	Scientific - Humanistic	4
9	322	physics II	Scientific - Humanistic	4
10	419	chemistry II	Scientific - Humanistic	3
11	414	Graphic Expression II	Scientific - Humanistic	3
12	618	Geological Engineering	Specialty	3
			SUBTOTAL	21
			TOTAL	41
---		English	---	---

SUMMER COURSE (1)

Nº	CODE	NAME	TRAINING CAMP	CR
13	145	Marine ecology	Specialty	3
14	167	Maritime Geography of Panama and the World	Scientific - Humanistic	2
15	111	Oral and written communication	Scientific - Humanistic	2
16	421	Moral and ethic	Scientific - Humanistic	2
17	423	Elective subject	---	3
			SUBTOTAL	12
			TOTAL	53

SECOND YEAR

III SEMESTER

Nº	CODE	NAME	TRAINING CAMP	CR
18	432	Ordinary Differential Equations	Scientific - Humanistic	4
19	619	Building Materials I	Specialty	3
20	406	Mechanics	Scientific - Humanistic	3
21	298	Material resistance	Scientific - Humanistic	3
22	621	Surveying and Geodesy	Specialty	3
23	622	Hydraulics	Specialty	3
			SUBTOTAL	19
			TOTAL	72
---		English	---	---

IV SEMESTER

Nº	CODE	NAME	TRAINING CAMP	CR
24	436	Higher Mathematics for Engineers	Scientific - Humanistic	4
25	623	Building Materials II	Specialty	3
26	624	Hydrology	Specialty	3
27	627	Electricity and Electrical Engineering	Scientific - Humanistic	3
28	625	Aided Design on the computer	Specialty	3
29	626	Theory of Structures	Specialty	3
---		English	---	---
			SUBTOTAL	19
			TOTAL	91

SUMMER COURSE (2)

Nº	CODE	NAME	TRAINING CAMP	CR
30	628	geotechnics	Specialty	3
31	32	Basic Statistics	Scientific - Humanistic	3
32	274	Basic administration	Administrative and Management	3
33	423	Elective subject	---	3

	SUBTOTAL	12
	TOTAL	103

THIRD YEAR

V SEMESTER

Nº	CODE	NAME	TRAINING CAMP	CR
34	597	Applied Statistics	Scientific - Humanistic	3
35	197	Calculation of Structures I	Specialty	3
36	629	Metal and Concrete Structures	Specialty	3
37	630	Planning and Water Resources Management	Specialty	3
38	631	Ports and Channels Engineering I	Specialty	4
39	632	Technical English Channel Ports and I	Specialty	4
			SUBTOTAL	20
				123

VI SEMESTER

Nº	CODE	NAME	TRAINING CAMP	CR	
40	633	Supply and Sanitation	Specialty	3	
41	634	Hydraulic Exploitation	Specialty	3	
42	635	Quality and Water Purification	Specialty	3	
43	636	Business Organization	Administrativo-Gerencial	3	
44	637	Ports and Channels Engineering II	Specialty	4	
45	638	Technical English Ports and Channels II	Specialty	4	
			SUBTOTAL	21	
				TOTAL	144

SUMMER COURSE (3)

Nº	CODE	NAME	TRAINING CAMP	CR
46	454	Fundamentals of Industrial Safety	Specialty	3
47	639	Intermodal and Conveying	Specialty	3
48	640	Planning and Management of Ports and Channels	Specialty	3

49	423	Elective subject	---	3
			SUBTOTAL	12
			TOTAL	156

FOURTH YEAR

VII SEMESTER

Nº	CODE	NAME	TRAINING CAMP	CR
50	466	Numerical Analysis of Structures I	Specialty	4
51	641	Geotechnical works	Specialty	3
52	695	Formulation and evaluation of projects	Specialty	3
53	642	Fundamentals of Environmental	Specialty	3
54	643	Pathology of Civil Works	Specialty	3
55	644	Geographic Information System and Remote Sensing	Specialty	3
			SUBTOTAL	19
			TOTAL	174

VIII SEMESTER

Nº	CODE	NAME	TRAINING CAMP	CR
56	696	Panama Canal Engineering	Specialty	4
57	645	Environmental Impact Assessment	Specialty	3
58	646	Numerical Analysis of Structures II	Specialty	4
59	647	Project development	Specialty	3
60	423	Elective subject	---	3
61	423	Elective subject	---	3
			SUBTOTAL	20
			TOTAL	194

FIFTH YEAR

IX SEMESTER

Nº	CODE	NAME	TRAINING CAMP	CR
62	195	Graduation work (Thesis , Professional Practice or Graduate Courses)	Specialty	12
			SUBTOTAL	12
			TOTAL	206

TOTAL RACE IN DEGREE IN CIVIL ENGINEERING AND CHANN

	PRACTICAL HOURS	TOTAL HOURS	TOTAL CREDITS	
	128	269	206	

Nº	CODE	NAME	TRAINING CAMP	CR
	423	Investigation methodology	---	3
	423	Traffic and Port Operations	---	3
	423	Integral Port Management	---	3
	423	Water Law and Policy	---	3
	423	Labor legislation	---	3
	423	Natural hazards	---	3
	423	Port Design Team	---	3
	423	Development of Entrepreneurs	---	3
	423	Environmental education	---	3
	423	Marine geology	---	3
	423	Applied Oceanography	---	3
	423	Marine contamination	---	3
	423	Maritime Environmental Management	---	3
	423	Environmental impact on marine and coastal systems	---	3
	423	Maritime Legislation and Environmental	---	3
	423	Electives of Other Races	---	3

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PREREQUISITES
Basic Statistics
Theory of Structures
Theory of Structures
Hydrology
Theory of Structures
N/T

PREREQUISITES
N/T
Planning and Water Resources Management
Hydrology
N/T
Ports and Channels Engineering I
Technical English Channel Ports and I

PREREQUISITES
N/T
Ports and Channels Engineering II
Business Organization

N/T
Indice



PREREQUISITES
Calculation of Structures I
geotechnics
N/T
N/T
Building Materials II
Surveying and Geodesy
Indice

PREREQUISITES
Ports and Channels Engineering II
Planning and Management of Ports and Channels
Numerical Analysis of Structures I
N/T
N/T
N/T
Indice



