

CURRICULUM
Starting with academic year 2022-2023

Study program: NAVAL ELECTROMECHANICS
Fundamental domain: ENGINEERING SCIENCES
Bachelor's field: NAVAL ENGINEERING AND NAVIGATION
Faculty: NAVAL ELECTROMECHANICS
Academic degree: Bachelor of Science
The duration of studies: 4 years
Form of education: full time

The mission of study program

Emphasizing the importance of the higher technical education within an extended area which should be flexible, interactive and continuous, according to the European and worldwide requirements in education, preserving national academic traditions. Performing the educational process at a higher level of continuous professional training of specialists in the field and generating and transferring knowledge towards society training future specialists in the maritime and multimodal field and being an unfailing initiator of innovative and creative solutions for regional and European development of transportation.

The general objectives of study program

Training professional engineers in order to acquire competences in designing, building, assembling, exploiting, maintaining and repairing ships, special ships, marine structures and installations, systems and naval equipment (on the quay side or onboard ships), corresponding to the competition economy requirements, naval professionals with engineering, scientific, managerial and complementary knowledge adequate to the present and future needs for naval, shipbuilding and transport perspective and for corresponding industrial sectors. Creating the necessary conditions for developing the relation between maritime education and the Romanian and European social and economic field and maintaining a competitive educational offer developed according to the society's demands having as a target to emphasise the importance of scientific research in the activities by increasing quality in the didactic activity, attaining more satisfaction from students, graduates and employers and performing student centred education.

The specific objectives of study program

1. University education for bachelor degree graduates in the field of the Navigation and Marine Engineering, corresponding to the European competitive economy demands, as engineers having the level of scientific, engineering, managerial and complementary knowledge as well as the adequate practical skills for the present-day needs and also for the future ones for the naval transport industry, respectively maritime, river and offshore shipbuilding.
2. Extending the training process for specialized engineers in the field of marine engineering and navigation from the perspective of providing the technical-economical and managerial ability necessary for approaching design, fulfilment and optimal exploitation, completely safely, of constructions, systems and equipment specific for the offshore, maritime and river shipbuilding, subjected to European criteria, respectively on a global level, of quality certification.
3. Initiating, in the future, a programme for fundamental and applied scientific research, specific for the marine engineering and navigation field and the corresponding ones, compatible with the contemporary requests and necessities, using the whole creative potential of the teaching staff, master degree students and bachelor degree students along with that of famous specialists in this highly requested field with a better and better perspective in Romania, from the point of view of foreign students who come here to study in this field in Constanta Maritime University.
4. Creating the necessary conditions for development, in perspective, the third level of PhD studies in the correspondent field in order to provide completion of the specialized engineering field in marine engineering and navigation with multidisciplinary higher scientific research prerequisites.
5. Continuous improvement of the human didactic and scientific potential (teaching staff and researchers with university and post university adequate training) and material (advanced facilities educational venues resulted from internal and external sources), in order to fulfil requests presented in objectives 1, 2, 3 și 4.

Skills

The professional skills

Capacity to identify, analyze and describe from a functional point of view the elements of the electromechanical systems in the maritime field; Capacity to analyze physical processes involved in the running of maritime electromechanical systems; Capacity to design electromechanical systems in the maritime field; Capacity to ensure maintenance of the maritime electromechanical systems; Capacity to safely run maritime electromechanical systems; Capacity to communicate with experts in other fields, connected to the activities in the field of marine engineering and navigation

The transversal skills

Objective self-evaluation of the continuous professional development and the effective use of linguistic abilities, information technology knowledge and communication with a view to the personal and professional development and better insertion on the labour market and adjustment to the dynamics of its requirements; Efficient use of techniques of human inter-relationships within a multicultural environment, on different hierarchic levels, of written and oral communication and efficient cooperation with experts in multiple fields; Planning, organization and leadership within a team and proof-making of communication abilities; Maintaining a physical fitness for on board activities; Competence in maritime laws in force

I. Requirements for obtaining the engineer diploma

Obtaining the 240 credits in mandatory and optional disciplines in the curriculum of study program.

II. The structure of the academic year (in weeks)

Number of semesters: 2

Number of credits per semester: 30

Number of weeks: 14 weeks.

	Teaching activities		Exam session			Practice	Vacation		
	Sem. I	Sem. II	Winter	Summer	Resits		Winter	Spring	Summer
Year I	14	14	3	3	3	-	2	3	10
Year II	14	14	3	3	3	3	2	3	7
Year III	14	14	3	3	3	3	2	3	7
Year IV	14	14	3	3	-	-	2	3	-

III. Number of class hours per week

Year	Semester I	Semester II
I	27	27
II	28	25
III	26	26
IV	28	28

IV. How to choose optional courses

The flexibility of the study program is ensured through optional disciplines and optional disciplines. The disciplines of your choice (optional) are proposed from the second semester and are grouped in optional packages that complement the student's specialization route. Out of the two packages of optional subjects students will choose one that becomes compulsory. The content of optional packages shall be communicated by the specialized department. The choice of the route is made by the student in the academic year before the optional discipline packages (with the exception of options for the first year and semester when expressing in the first semester)

V. Organizing courses at optional disciplines

The organization of courses in optional disciplines is done through the Courses and Activities Center. In the curriculum of each Bachelor's program, the disciplines and the related number of hours are recorded, following the name of the discipline to go through the Matriculation Registry according to the student's option. The allocation of credits for optional disciplines is based on the graduation colloquium. Credits obtained in optional disciplines do not replace credits for compulsory and optional disciplines.

VI. Terms of enrolment into the next year. Conditions of promotion. Conditions of return

The conditions for registration in the following year, the promotion conditions are contained in the Student Professional Activity Regulation.

VII. The graduation exam

The period of preparation of the License: starting with the penultimate semester of study.

Finalize the License Project: In the last semester of study.

Period of bachelor's support: In the June-July session of the last year of study.

Number of credits for bachelor's support: 10 credits (in addition to 240s).

Study completion exam has two evaluations:

1. Evaluation of fundamental and specialized knowledge
2. Presentation and support of the Diploma Project

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 Bachelor's field: NAVAL ENGINEERING AND NAVIGATION
 Faculty: NAVAL ELECTROMECHANICS
 Academic degree: Bachelor of Science
 The duration of studies: 4 years
 Form of education: full time



CURRICULUM
Year I

COMPULSORY SUBJECTS

Nr. crt	Course title	Course code	Course category	Course type	Semester I - 14 weeks							Semester II - 14 weeks						
					C	S	L	P	SI	Exam form	Credits points	C	S	L	P	SI	Exam form	Credits points
1	Mathematical Analysis I	XM 1.1.1	DI	DF	3	2	-	-	30	E	4	-	-	-	-	0	-	0
2	Linear algebra, analytic and differential geometry	XM 1.2.1	DI	DF	2	2	-	-	19	E	3	-	-	-	-	0	-	0
3	Computer Science and language programming I	XM 1.3.1	DI	DF	2	-	2	-	19	E	3	-	-	-	-	0	-	0
4	Physics	XM 1.4.1	DI	DF	2	-	2	-	44	E	4	-	-	-	-	0	-	0
5	Chemistry	XM 1.5.1	DI	DF	2	-	1	-	58	E	4	-	-	-	-	0	-	0
6	Descriptive geometry	XM 1.6.1	DI	DF	1	-	1	-	72	C	4	-	-	-	-	0	-	0
7	Multiculturalism	XM 1.7.1	DI	DC	1	1	-	-	22	C	2	-	-	-	-	0	-	0
8	English I	XM 1.8.1	DI	DC	-	2	-	-	47	C	3	-	-	-	-	0	-	0
9	Physical Education I	XM 1.9.1	DI	DC	-	1	-	-	61	C	3	-	-	-	-	0	-	0
10	Mathematical Analysis II	XM 1.10.2	DI	DF	-	-	-	-	0	-	0	2	2	-	-	44	E	4
11	Computer Science and language programming II	XM 1.11.2	DI	DF	-	-	-	-	0	-	0	2	-	1	-	33	E	3
12	Technical drawing and infographics	XM 1.12.2	DI	DF	-	-	-	-	0	-	0	2	-	2	-	19	C	3
13	English II	XM 1.13.2	DI	DC	-	-	-	-	0	-	0	-	2	-	-	47	C	3
14	Physical Education II	XM 1.14.2	DI	DC	-	-	-	-	0	-	0	-	1	-	-	61	C	3
15	General Economy	XM 1.15.2	DI	DC	-	-	-	-	0	-	0	1	1	-	-	47	C	3
16	Advanced Mathematics	XM 1.16.2	DI	DF	-	-	-	-	0	-	0	2	2	-	-	44	E	4
Total hours (CP) per week					13	8	6	0	372	5E+4C	30	9	8	3	0	295	3E+4C	23
					27				26.571			20				21.071		

Note: The number of hours of individual study/course/semester is calculated using the formula: $SI = CP \times 25 - 14 (C+S+L+P)$

DF - fundamental disciplines DD - Domain Disciplines DS - specialty disciplines DC - complementary disciplines

DI - obligatory disciplines DO - elective disciplines DF- optional disciplines

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ELECTIVE SUBJECTS

Nr. crt	Course title	Course code	Course category	Course type	Semester I - 14 weeks							Semester II - 14 weeks						
					C	S	L	P	SI	Exam form	Credits points	C	S	L	P	SI	Exam form	Credits points
Package A																		
17	Deck Systems	XM 1.17.2	DO	DD	-	-	-	-	0	-	0	2	1	-	-	33	C	3
18	Technological methods and procedures	XM 1.18.2	DO	DD	-	-	-	-	0	-	0	2	2	-	-	44	E	4
Package B																		
17	Seamanship	XM 1.17.2	DO	DD	-	-	-	-	0	-	0	2	1	-	-	33	C	3
18	Materials science and engineering	XM 1.18.2	DO	DD	-	-	-	-	0	-	0	2	2	-	-	44	E	4
Total hours (CP) per week					0	0	0	0	0	0E+0C	0	4	3	0	0	77	1E+1C	7
					0			0				7			5.5			

OPTIONAL SUBJECTS

Nr. crt	Course title	Course code	Course category	Course type	Semester I - 14 weeks							Semester II - 14 weeks						
					C	S	L	P	SI	Exam form	Credits points	C	S	L	P	SI	Exam form	Credits points
19	Medical first aid	XM 1.19.1	DF	DS	1	-	1	-	22	C	2	-	-	-	-	0	-	0
20	Fire prevention and fighting	XM 1.20.1	DF	DS	1	-	1	-	22	C	2	-	-	-	-	0	-	0
21	Personal survival techniques	XM 1.21.2	DF	DS	-	-	-	-	0	-	0	1	-	1	-	22	E	2
22	Personal safety and social responsibilities on board ships	XM 1.22.2	DF	DS	-	-	-	-	0	-	0	1	-	1	-	22	E	2
23	Security awareness training & security training for seafarers with designated security duties	XM 1.23.2	DF	DS	-	-	-	-	0	-	0	1	1	-	-	22	C	2
24	Onboard training	XM 1.24.2	DF	DS	-	-	-	-	0	-	0	4 weeks x56 hours/week				C	2	
25	Volunteering I, II	XM 1.25.1;2	DF	DC	14 weeks x1 hour/week					C(A/R)	2	14 weeks x1 hour/week				C(A/R)	2	
Total hours (CP) per week					2	0	2	0	44	0E+3C	6	3	1	2	0	66	2E+3C	10
					4			3.1429				6			4.71			

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Year II

COMPULSORY SUBJECTS

Nr. crt	Course title	Course code	Course category	Course type	Semester I - 14 weeks							Semester II - 14 weeks						
					C	S	L	P	SI	Exam form	Credits points	C	S	L	P	SI	Exam form	Credits points
1	Numerical Methods	XM 2.1.1	DI	DF	2	-	1	-	58	E	4	-	-	-	-	0	-	0
2	Mechanics I	XM 2.2.1	DI	DD	2	1	-	-	33	E	3	-	-	-	-	0	-	0
3	Strength of materials I	XM 2.3.1	DI	DD	4	1	1	-	16	E	4	-	-	-	-	0	-	0
4	English III	XM 2.4.1	DI	DC	-	1	-	-	36	C	2	-	-	-	-	0	-	0
5	Maritime English I	XM 2.5.1	DI	DC	-	2	-	-	22	C	2	-	-	-	-	0	-	0
6	Communication	XM 2.6.1	DI	DC	-	1	-	-	61	C	3	-	-	-	-	0	-	0
7	Physical Education III	XM 2.7.1	DI	DC	-	1	-	-	61	C	3	-	-	-	-	0	-	0
8	Computer-Aided Design	XM 2.8.1	DI	DF	2	-	2	-	19	E	3	-	-	-	-	0	-	0
9	Mechanics II	XM 2.9.2	DI	DD	-	-	-	-	0	-	0	3	1	-	-	19	E	3
10	Strength of materials II	XM 2.10.2	DI	DD	-	-	-	-	0	-	0	2	1	1	-	44	E	4
11	Machine Elements Design I	XM 2.11.2	DI	DD	-	-	-	-	0	-	0	3	1	-	1	30	E	4
12	Thermodynamics I	XM 2.12.2	DI	DD	-	-	-	-	0	-	0	3	2	-	-	30	E	4
13	English IV	XM 2.13.2	DI	DC	-	-	-	-	0	-	0	-	1	-	-	61	C	3
14	Maritime English II	XM 2.14.2	DI	DC	-	-	-	-	0	-	0	-	2	-	-	47	C	3
15	Physical Education IV	XM 2.15.2	DI	DC	-	-	-	-	0	-	0	-	1	-	-	61	C	3
16	Practical training II	XM 2.16.2	DI	DD	-	-	-	-	0	-	0	3 weeks x30 hours/week					C	3
Total hours (CP) per week					10	7	4	0	306	4E+4C	24	11	9	1	1	292	4E+4C	27
					21				21.857			22				20.857		

Note: The number of hours of individual study/course/semester is calculated using the formula: $SI = CP \times 25 - 14 (C+S+L+P)$

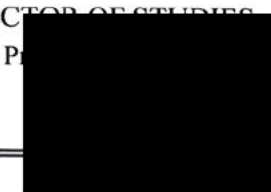
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ELECTIVE SUBJECTS

Nr. crt	Course title	Course code	Course category	Course type	Semester I - 14 weeks							Semester II - 14 weeks						
					C	S	L	P	SI	Exam form	Credits points	C	S	L	P	SI	Exam form	Credits points
Package A																		
17	Electrotehnics and electrical machines	XM 2.17.1	DO	DD	2	1	-	-	33	E	3	-	-	-	-	-	-	0
18	Electronics and automation	XM 2.18.1	DO	DD	2	1	1	-	19	E	3	-	-	-	-	-	-	0
19	Navigation concepts and hydrometeorology	XM 2.19.2	DO	DD	-	-	-	-	0	-	0	2	-	-	1	33	E	3
Package B																		
17	Electrotehnics	XM 2.17.1	DO	DD	2	1	-	-	33	E	3	-	-	-	-	0	-	0
18	Materials engineering and dimensional control	XM 2.18.1	DO	DD	2	1	1	-	19	E	3	-	-	-	-	0	-	0
19	Mechanisms	XM 2.19.2	DO	DD	-	-	-	-	0	-	0	2	-	-	1	33	E	3
Total hours (CP) per week					4	2	1	0	52	2E+0C	6	2	0	0	1	33	1E+0C	3
					7			3.71	3			2.36						

OPTIONAL SUBJECTS

Nr. crt	Course title	Course code	Course category	Course type	Semester I - 14 weeks							Semester II - 14 weeks						
					C	S	L	P	SI	Exam form	Credits points	C	S	L	P	SI	Exam form	Credits points
20	Transport and handling of dangerous cargo	XM 2.20.1	DF	DS	1	-	1	-	22	C	2	-	-	-	-	0	-	0
21	Marine environment pollution prevention. MARPOL	XM 2.21.1	DF	DS	1	-	1	-	22	C	2	-	-	-	-	0	-	0
22	Proficiency in survival craft and rescue boats	XM 2.22.1	DF	DS	1	-	1	-	22	C	2	-	-	-	-	0	-	0
23	Cybersecurity	XM 2.23.1	DF	DC	2	-	2	-	19	C	3	-	-	-	-	0	-	0
24	Onboard training	XM 2.24.2	DF	DS	-	-	-	-	0	-	0	4 weeks x56 hours/week					C	2
25	Volunteering III, IV	XM 2.25.1;2	DF	DC	14 weeks x1 hour/week					C(A/R)	2	14 weeks x1 hour/week					C(A/R)	2
Total hours (CP) per week					5	0	5	0	85	0E+5C	11	0	0	0	0	0	0E+2C	4
					10			6.07	0			0						

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Year III

COMPULSORY SUBJECTS

Nr. crt	Course title	Course code	Course category	Course type	Semester I - 14 weeks							Semester II - 14 weeks						
					C	S	L	P	SI	Exam form	Credits points	C	S	L	P	SI	Exam form	Credits points
1	Theory and construction of ships	XM 3.1.1	DI	DD	2	-	-	1	58	C	4	-	-	-	-	0	-	0
2	Thermodynamics II	XM 3.2.1	DI	DD	3	-	1	-	69	E	5	-	-	-	-	0	-	0
3	Machine Elements Design II	XM 3.3.1	DI	DD	3	-	-	1	44	E	4	-	-	-	-	0	-	0
4	Applied electronics and automation	XM 3.4.1	DI	DD	2	-	1	-	58	C	4	-	-	-	-	0	-	0
5	Fluid mechanics	XM 3.5.1	DI	DD	3	1	1	-	55	E	5	-	-	-	-	0	-	0
6	Theory of systems and automatic adjustments	XM 3.6.1	DI	DD	2	-	1	-	58	E	4	-	-	-	-	0	-	0
7	Internal Combustion engines processes and characteristics I	XM 3.7.2	DI	DS	-	-	-	-	0	-	0	3	-	1	1	30	E	4
8	Mechanical onboard systems I	XM 3.8.2	DI	DD	-	-	-	-	0	-	0	3	-	1	-	19	E	3
9	Mechanical onboard systems I -pr	XM 3.9.2	DI	DD	-	-	-	-	0	-	0	-	-	-	1	36	C	2
10	Marine hydraulic machines	XM 3.10.2	DI	DS	-	-	-	-	0	-	0	3	-	1	1	30	E	4
11	International maritime law	XM 3.11.2	DI	DS	-	-	-	-	0	-	0	1	1	-	-	47	C	3
12	Environmental protection	XM 3.12.2	DI	DC	-	-	-	-	0	-	0	1	1	-	-	47	C	3
13	Electrical measurements and transducers	XM 3.13.2	DI	DD	-	-	-	-	0	-	0	2	-	1	-	33	E	3
14	Ethics and academic integrity	XM 3.14.2	DI	DC	-	-	-	-	0	-	0	-	1	-	-	36	C	2
15	Practical training III	XM 3.15.2	DI	DS	-	-	-	-	0	-	0	3 weeks x30 hours/week					C	3
Total hours (CP) per week					15	1	4	2	342	4E+2C	26	13	3	4	3	278	4E+5C	27
					22				24.429			23				19.86		

Note: The number of hours of individual study/course/semester is calculated using the formula: SI = CP x 25 - 14 (C+S+L+P)

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DI - obligatory disciplines DO - elective disciplines DF- optional disciplines

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ELECTIVE SUBJECTS

Nr. crt	Course title	Course code	Course category	Course type	Semester I - 14 weeks							Semester II - 14 weeks						
					C	S	L	P	SI	Exam form	Credits points	C	S	L	P	SI	Exam form	Credits points
Package A																		
16	Electrical action systems	XM 3.16.1	DO	DD	2	-	1	1	44	E	4	-	-	-	-	0	-	0
17	Naval electrical equipment	XM 3.17.2	DO	DS	-	-	-	-	0	-	0	2	-	1	-	33	C	3
Package B																		
16	Machines and electrical drives	XM 3.16.1	DO	DD	2	-	1	1	44	E	4	-	-	-	-	0	-	0
17	Naval electrical devices	XM 3.17.2	DO	DS	-	-	-	-	0	-	0	2	-	1	-	33	C	3
Total hours (CP) per week					2	0	1	1	44	1E+0C	4	2	0	1	0	33	0E+1C	3
					4			3.14	3			2.3571						

OPTIONAL SUBJECTS

Nr. crt	Denumirea disciplinei	Cod disciplină	Categ. disc	Tip disc	Semestrul I - 14 săptămâni							Semestrul II - 14 săptămâni						
					C	S	L	P	SI	FV	PC	C	S	L	P	SI	FV	PC
18	Maritime english III, IV	XM 3.18.1;2	DF	DC	-	2	-	-	47	C	3	-	2	-	-	47	C	3
19	Onboard training	XM 3.19.2	DF	DS	-	-	-	-	0	-	0	4 weeks x56 hours/week				C	2	
20	Volunteering V, VI	XM 3.20.1,2	DF	DC	14 weeks x1 hour/week					C(A/R)	2	14 weeks x1 hour/week				C(A/R)	2	
Total hours (CP) per week					0	2	0	0	47	0E+2C	5	0	2	0	0	47	0E+3C	7
					2			3.3571	2			3.36						



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Year IV

COMPULSORY SUBJECTS

Nr. crt	Course title	Course code	Course category	Course type	Semester I - 14 weeks							Semester II - 14 weeks						
					C	S	L	P	SI	Exam form	Credits points	C	S	L	P	SI	Exam form	Credits points
1	Naval electrical installations	XM 4.1.1	DI	DS	2	-	1	-	33	E	3	-	-	-	-	0	-	0
2	Internal Combustion engines processes and characteristics II	XM 4.2.1	DI	DS	3	-	1	-	69	E	5	-	-	-	-	0	-	0
3	Control of naval propulsion systems	XM 4.3.1	DI	DS	2	-	1	-	58	E	4	-	-	-	-	0	-	0
4	Leadership and teamwork	XM 4.4.1	DI	DS	1	-	2	-	58	C	4	-	-	-	-	0	-	0
5	Internal combustion engines dynamics and components	XM 4.5.1	DI	DS	4	-	1	1	41	E	5	-	-	-	-	0	-	0
6	Steam generators	XM 4.6.1	DI	DS	4	-	1	1	41	E	5	-	-	-	-	0	-	0
7	High voltage	XM 4.7.2	DI	DS	-	-	-	-	0	-	0	1	-	1	-	47	C	3
8	Maintenance and repair of naval vessels in site	XM 4.8.2	DI	DS	-	-	-	-	0	-	0	1	1	-	-	47	C	3
9	Ancillary systems of internal combustion engines	XM 4.9.2	DI	DS	-	-	-	-	0	-	0	4	-	1	-	30	E	4
10	Ancillary systems of internal combustion engines -pr	XM 4.10.2	DI	DS	-	-	-	-	0	-	0	-	-	-	1	36	C	2
11	Steam and gas turbines	XM 4.11.2	DI	DS	-	-	-	-	0	-	0	3	-	1	1	30	E	4
12	Exploitation, repair and maintenance of internal combustion engines	XM 4.12.2	DI	DS	-	-	-	-	0	-	0	4	-	2	-	16	C	4
13	Mechanical onboard systems II	XM 4.13.2	DI	DD	-	-	-	-	0	-	0	2	-	1	1	19	E	3
14	Preparation of Bachelor of Science license	XM 4.14.2	DI	DS	-	-	-	-	0	-	0	2 weeks x30 hours/week					C	4
15	License exam	XM 4.15.2	DI	DS													10	
Total hours (CP) per week					16	0	7	2	300	5E+1C	26	15	1	6	3	225	3E+5C	27
					25				21.429			25				16.071		

Note: The number of hours of individual study/course/semester is calculated using the formula: $SI = CP \times 25 - 14 (C+S+L+P)$

DF - fundamental disciplines DD - Domain Disciplines DS - specialty disciplines DC - complementary disciplines

DI - obligatory disciplines DO - elective disciplines DF- optional disciplines

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ELECTIVE SUBJECTS

Nr. crt	Course title	Course code	Course category	Course type	Semester I - 14 weeks							Semester II - 14 weeks						
					C	S	L	P	SI	Exam form	Credits points	C	S	L	P	SI	Exam form	Credits points
Package A																		
16	Refrigeration and air conditioning installations	XM 4.16.1	DO	DS	2	-	1	-	58	C	4	-	-	-	-	0	-	0
17	Maritime transport theory and techniques	XM 4.17.2	DO	DS	-	-	-	-	0	-	0	2	-	-	1	33	E	3
Package B																		
16	Marine refrigerating plants	XM 4.16.1	DO	DS	2	-	1	-	58	C	4	-	-	-	-	0	-	0
17	Noise and vibrations on board	XM 4.17.2	DO	DS	-	-	-	-	0	-	0	2	-	-	1	33	E	3
Total hours (CP) per week					2	0	1	0	58	0E+1C	4	2	0	0	1	33	1E+0C	3
					3			4.14	3			2.36						

OPTIONAL SUBJECTS

Nr. crt	Course title	Course code	Course category	Course type	Semester I - 14 weeks							Semester II - 14 weeks						
					C	S	L	P	SI	Exam form	Credits points	C	S	L	P	SI	Exam form	Credits points
18	Management and marketing	XM 4.18.2	DF	DC	-	-	-	-	0	-	0	2	1	-	-	8	C	2
19	Maritime english V, VI	XM 4.19.1;2	DF	DC	-	2	-	-	22	C	2	-	2	-	-	22	C	2
20	Onboard training	XM 4.20.2	DF	DS	-	-	-	-	0	-	0	12 weeks x56 hours/week				C	2	
21	Volunteering VII, VIII	XM 4.21.1,2	DF	DC	14 weeks x1 hour/week					C(A/R)	2	14 weeks x1 hour/week					C(A/R)	2
Total hours (CP) per week					0	2	0	0	22	0E+2C	4	2	3	0	0	30	0E+4C	8
					2			1.57	5			2.14						

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OVERALL BALANCE SHEET

Nr. crt.	Disciplines	Number of class hours				Total	%	Credits				Total	ARACIS Standards
		Year I	Year II	Year III	Year IV			Year I	Year II	Year III	Year IV		
1	Compulsory	658	602	630	700	2590	86.05	53	51	53	53	210	< 90%
2	Elective	98	140	98	84	420	13.95	7	9	7	7	30	> 10%
3	Optional	140	140	56	98	434	14.42	16	15	12	12	55	
4	Total Compulsory and Elective	756	742	728	784	3010	100	60	60	60	60	240 + 10 lic	
5	Practical training		90	90	60	240							

PARTITION OF FUNDAMENTAL, SPECIFIC AND COMPLEMENTARY DISCIPLINES

Type of subjects	Number of class hours				Total		ARACIS Standards
	Year I	Year II	Year III	Year IV		%	
Fundamental disciplines (DF)	518	98	0	0	616	18.95	> 17%
Domain Specific Disciplines (DD)	98	608	476	56	1238	38.09	> 38%
Specialty disciplines (DS)	0	0	300	788	1088	33.48	>25%
Complementary disciplines (DC)	140	126	42	0	308	9.48	< 8%
Total	756	832	818	844	3250		