Rect[redacted]me University

Faculty: NAVAL ELECTROMECHANICS
Study program: ELECTRICAL ENGINEERING
Fundamental domain: ENGINEERING SCIENCES
Domain: ELECTRICAL ENGINEERING
Academic degree: ENGINEER
Duration of the study program: 4 YEARS
Form of education: FULL-TIME EDUCATION

CURRICULUM
starting with academic year 2021/2022

The mission of the study program

Promoting a broad, flexible, interactive and continuous higher technical education, in line with the requirements of European and global education, preserving national academic traditions.

The general objective of the study program

To achieve a high academic level in the educational process of continuous professional training of specialists in engineering fields, through the development of specific skills in the various specializations;
Training of higher education specialists in the field of electrical engineering;
Continuous development of scientific research, at the level of contemporary international standards, aiming to affirm the scientific performance of students, through their participation in the activities of the local, national, international community and interuniversity cooperation.

The specific objectives of the study program

The graduate can develop techniques and tools characteristic of modern engineering, necessary to practice engineering in the field of electrical engineering.
The graduate can solve the problems of sizing, operation and maintenance related to the equipment and installations in an electrical system by choosing the optimal solution both from a technical and economic point of view.
The graduate can evaluate the basic elements related to the management of electrical systems by correlating them with the legislation in the field.
The graduate can design a system, a component or a process that meets the desired needs within realistic constraints such as economic, safety, environmental, ethical and sustainable.
The graduate can size equipment and electrical installations of low and medium complexity based on the principles and methods established in the field.
The graduate can analyze operating documentation, project data and measurement bulletins to maintain an electrical system in optimal operating parameters.
The graduate can analyze techniques, methodologies, concepts for adapting to the requirements and challenges of both the industrial and academic environment.
The graduate can make the basic documentation for the design of an electrical system by choosing the optimal solution from a technical-economic point of view.

Professional skills

CP1.Appropriate application of knowledge from the fundamental disciplines of mathematics, physics and chemistry in the field of electrical engineering
CP2.Use of fundamental concepts in electrical engineering.
CP3.Analysis of physical and technological processes occurring in the operation of electrical systems.
CP4.Design, operate and manage the troubleshooting and restoration to working order of electrical, electronic and marine equipment.
CP5. Identification, analysis and functional description of the operating principles of electrical systems;
CP6.Design and modeling of operating regimes in the operation of electrical installations.

Transversal skills

CT1.Determine the technical, material and time resources available, the stages of implementation, deadlines, risks and targets to be achieved.
CT2.Establish individual roles and responsibilities in a multidisciplinary team and implement methods and techniques for collaboration and teamwork efficiency.
CT3.Use information, communication and professional training resources (Internet, databases, on-line courses, specialized and dedicated software, etc.) adequately and efficiently in Romanian and/or in an international language.

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I. Requirements for obtaining the engineer diploma

Obtaining the 240 credits in the compulsory and optional subjects of the study program curriculum.

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	Makeups		Winter	Spring	Summer
Year I	14	14	3	3	2	0	2	1	13
Year II	14	14	3	3	2	3	2	1	10
Year III	14	14	3	3	2	3	2	1	10
Year IV	14	14	3	3	2	2	2	1	-

III. Number of class hours per week

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

IV. How to choose optional courses

Flexibility in the study program is provided by optional subjects and elective subjects. Elective subjects are offered from the second semester forward and are grouped into optional packages, which complete the student's specialization pathway. The choice of pathway is made by the student in the academic year prior to the running of the optional subject packages (with the exception of the options for the first year second semester when the first semester is expressed).

V. Organization of courses in optional subjects

The organization of the courses in the optional subjects is done through the Center for Courses and Professional Training Activities. In the curriculum of each undergraduate programs, the subjects and the number of hours are recorded, and the name of the subject is also recorded in the student's register according to the student's choice. The allocation of credits for the optional subjects is made after the examination of the course. Credits obtained for optional subjects do not replace credits for compulsory and optional subjects.

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

The conditions for enrollment in the following year, the conditions for promotion are contained in the Regulation on the professional activity of students.

VII. The graduation exam

Period of preparation of the bachelor project: from the penultimate semester of studies.
Finalization of the bachelor project: in the last semester of studies.
Period for the submission of the bachelor's project: in the June-July session of the last year of study.
Number of credits for the bachelor project: 10 credits (in addition to 240).

The final exam has two assessments:
1. Assessment of fundamental and specialist knowledge
2. Presentation and defense of the Diploma Project

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Domain: ELECTRICAL ENGINEERING
Academic degree: ENGINEER
Duration of the study program: 4 YEARS
Form of education: FULL-TIME EDUCATION

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CURRICULUM
Year I

COMPULSORY DISCIPLINES

No. 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 / Analiza matematica I	EE.01.01.1	DI	DF	3	2	-	-	55	E	5	-	-	-	-	-	-	-
2	Linear algebra analytical and differential geometry / Algebra liniara, geometrie analitica sidiferenţială	EE.01.02.1	DI	DF	2	2	-	-	44	E	4	-	-	-	-	-	-	-
3	Computer programming and programming languages I / Programarea calculatoarelor si limbaje de programare I	EE.01.03.1	DI	DF	2	-	2	-	44	E	4	-	-	-	-	-	-	-
4	Physics / Fizica	EE.01.04.1	DI	DF	2	-	2	-	69	E	5	-	-	-	-	-	-	-
5	Chemistry / Chimie	EE.01.05.1	DI	DF	2	-	2	-	44	E	4	-	-	-	-	-	-	-
6	Physical education I / Educaţie fizica I	EE.01.06.1	DI	DC	-	1	-	-	11	V	1	-	-	-	-	-		
7	English language I / Limba engleza I	EE.01.07.1	DI	DC	-	2	-	-	22	V	2	-	-	-	-	-	-	-
8	Multiculturalism / Multiculturalism	EE.01.08.1	DI	DC	-	1	-	-	36	V	2	-	-	-	-	-	-	-
9	Electrotechnical materials / Materiale electrotehnice	EE.01.09.2	DI	DD	-	-	-	-	-	-	-	3	1	-	-	44	E	4
10	Computer programming and programming languages II / Programarea calculatoarelor si limbaje de programare II	EE.01.10.2	DI	DF	-	-	-	-	-	-	-	2	-	1	-	58	E	4
11	Naval machinery / Maşini navale	EE.01.11.2	DI	DS	-	-	-	-	-	-	-	2	-	1	-	8	V	2
12	Special mathematics / Matematici speciale	EE.01.12.2	DI	DF	-	-	-	-	-	-	-	3	2	-	-	55	E	5
13	Environmental protection / Protecţia mediului	EE.01.13.2	DI	DC	-	-	-	-	-	-	-	1	1	-	-	22	V	2
14	Physical education II / Educaţie fizica II	EE.01.14.2	DI	DC	-	-	-	-	-	-	-	-	1	-	-	11	V	1
15	Mathematical analysis II / Analiza matematica II	EE.01.15.2	DI	DF	-	-	-	-	--	-	-	2	2	-	-	44	E	4
16	English II / Limba engleza II	EE.01.16.2	DI	DC	-	-	-	-	-	-	-	-	1	-	-	61	V	3
Total compulsory hours (credit points) per week					11	8	6	-	325	5E+3V	27	13	8	2	-	303	4E+4V	25
					25				325			23				303		

Note: SI-The number of hours of individual study/course/semester is calculated using the formula: **SI** = CP x 25 – 14 (C+S+L+P)
DF – Fundamental discipline , DD-Domain discipline -, DS – Specialty discipline , DC – Complementary discipline, DI – Compulsory discipline, DO – elective discipline, DL – optional discipline

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OPTIONAL DISCIPLINES

No. 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																		
1	Maritime English and communication problems on board ships / Limba engleza maritima si probleme de comunicare la bordul navelor	EE.01.17.1	DO	DC	-	1	-	-	61	V	3	-	-	-	-	-	-	-
2	Basics of naval transport / Bazele transportului naval	EE.01.18.2	DO	DS	-	-	-	-	-	-	-	2	1	-	-	33	V	3
3	Microeconomics / Microeconomie	EE.01.19.2	DO	DC	-	-	-	-	-	-	-	-	1	-	-	36	V	2
Package B																		
1	Communication / Comunicare	EE.01.17.1	DO	DC	-	1	-	-	61	V	3	-	-	-	-	-	-	-
2	Practical seamanship / Pregătire marinărească	EE.01.18.2	DO	DS	-	-	-	-	-	-	-	2	1	-	-	33	V	3
3	General economy / Economie generala	EE.01.19.2	DO	DC	-	-	-	-	-	-	-	-	1	-	-	36	V	2
Total optional hours (credit points) per week					-	1	-	-	61	1V	3	2	2	-	-	69	2V	5
					1				61			4				69		

FACULTATIVE DISCIPLINES

No. 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	Fire prevention and firefighting – basic level / Prevenirea si lupta contra incendiilor -baza	EE.01.20.1	DL	DC	1	-	1	-	22	V	2	-	-	-	-	-	-	-
2	Medical first aid – basic level / Prim ajutor medical - baza	EE.01.21.1	DL	DC	1	-	1	-	22	V	2	-	-	-	-	-	-	-
3	Volunteering / Voluntariat	EE.01.22.1	DL	DC	-	2	-	-	22	V	2	-	-	-	-	-	-	-
4	Fire prevention and firefighting – advanced level / Protecție individuala si responsabilități sociale la bordul navelor - nivel baza	EE.01.23.2	DL	DC	-	-	-	-	-	-	-	1	-	1	-	22	V	2
5	Individual sea survival techniques – basic level / Tehnici individuale de supraviețuire pe mare - nivel baza	EE.01.24.2	DL	DC	-	-	-	-	-	-	-	1	-	1	-	22	V	2
6	Familiarization with ship security and specific shipboard security tasks / Familiarizarea privind securitatea navei si sarcini specifice de securitate la bordul navei	EE.01.25.2	DL	DC	-	-	-	-	-	-	-	1	1	-	-	22	V	2
7	Marine practice / Practica marinărească	EE.01.26.2	DL	DC	-	-	-	-	-	-	-	2 wks.x40 hrs./week					V	2
Total facultative hours (credit points) per week					2	2	2	-	66	3V	6	3	1	2	-	66	4V	8
					6				66			6				66		

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Year II

COMPULSORY SUBJECTS

No. 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	Technological methods and processes / Metode si procedee tehnologice	EE.02.01.3	DI	DD	2	-	1	-	58	V	4	-	-	-	-	-	-	-
2	Electrical circuit theory / Teoria circuitelor electrice	EE.02.02.3	DI	DD	3	2	2	-	52	E	6	-	-	-	-	-	-	-
3	Analog and digital electronics I / Electronica analogica si digitala I	EE.02.03.3	DI	DD	2	1	1	-	69	E	5	-	-	-	-	-	-	-
4	Physical Education III / Educație fizica III	EE.02.04.3	DI	DC	-	1	-	-	11	V	1	-	-	-	-	-	-	-
5	English language III / Limba engleza III	EE.02.05.3	DI	DC	-	1	-	-	36	V	2	-	-	-	-	-	-	-
6	Mechanics and material strength / Mecanica si rezistenta materialelor	EE.02.06.3	DI	DD	2	1	-	-	58	E	4	-	-	-	-	-	-	-
7	Numerical methods / Metode numerice	EE.02.07.3	DI	DF	2	-	2	-	44	E	4	-	-	-	-	-	-	-
8	Computer-assisted graphics / Grafica asistata de calculator	EE.02.08.4	DI	DF	1	-	2	-	58	V	4							
9	Electromagnetic field theory / Teoria câmpului electromagnetic	EE.02.09.4	DI	DD	-	-	-	-	-	-	-	3	1	1	-	80	E	6
10	Physical Education IV / Educație fizica IV	EE.02.10.4	DI	DC	-	-	-	-	-	-	-	-	1	-	-	11	V	1
11	Naval electromechanical systems / Sisteme electromecanice navale	EE.02.11.4	DI	DS	-	-	-	-	-	-	-	3	1	-	-	44	E	4
12	Analog and digital electronics II / Electronica analogica si digitala II	EE.02.12.4	DI	DD	-	-	-	-	-	-	-	2	1	1	-	44	E	4
13	Microprocessor systems / Sisteme cu microprocesoare	EE.02.13.4	DI	DD	-	-	-	-	-	-	-	3	1	1	-	30	E	4
14	Mechanical Engineering Elements / Elemente de inginerie mecanica	EE.02.14.4	DI	DD	-	-	-	-	-	-	-	2	1	-	-	58	E	4
15	Domain practice / Practica de domeniu	EE.02.15.4	DI	DD								3 wks.x30 hrs./week					V	2
Total compulsory hours (credit points) per week					12	6	8	-	386	4E+4V	30	13	6	3	-	267	5E+2V	25
					26				386			22				267		

Note: SI-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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OPTIONAL DISCIPLINES

No. 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																		
1	Internet and databases / Internet si baze de date	EE.02.16.4	DO	DS	-	-	-	-	-	-	-	2	-	1	-	33	E	3
2	Italian language / Limba italiana	EE.02.17.4	DO	DC	-	-	-	-	-	-	-	-	1	-	-	36	V	2
Package B																		
1	Industrial Informatics / Informatica industriala	EE.02.16.4	DO	DS	-	-	-	-	-	-	-	2	-	1	-	33	E	3
2	English language IV / Limba engleza IV	EE.02.17.4	DO	DC	-	-	-	-	-	-	-	-	1	-	-	36	V	2
Total optional hours (credit points) per week					-	-	-	-	-	-	-	2	1	1	-	69	1E+1V	5
					-				-			4				69		

FACULTATIVE DISCIPLINES

No. 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	Transport and handling of dangerous goods / Transportul si manipularea mărfurilor periculoase	EE.02.18.3	DL	DC	1	-	1	-	22	C	2	-	-	-	-	-	-	-
2	Proficiency in the use of survival craft and rescue boats other than fast rescue boats / Competente in utilizarea mijloacelor de supraviețuire si a bărcilor de salvare, altele decât bărcile rapide de salvare	EE.02.19.3	DL	DC	1	-	1	-	22	C	2	-	-	-	-	-	-	-
3	Preventing pollution of the marine environment. MARPOL / Prevenirea poluării mediului marin. MARPOL	EE.02.20.3	DL	DC	1	-	1	-	22	C	2	-	-	-	-	-	-	-
4	Volunteering / Voluntariat	EE.02.21.3	DL	DC	-	2	-	-	22	C	2	-	-	-	-	-	-	-
5	Onboard practice / Practica ambarcata	EE.02.22.4	DL	DC	-	-	-	-	-	-	-	24 wks.x30 hrs./week					V	3
Total facultative hours (credit points) per week					3	2	3	-	88	4V	8	-	-	-	-	-	1V	3
					8				88			-				-		

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Year III

COMPULSORY SUBJECTS

No. 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	Electric machines I / Mașini electrice I	EE.03.01.5	DI	DD	3	1	1	-	80	E	6	-	-	-	-	-	-	-
2	PLCs / Microcontrolere si automate programabile	EE.03.02.5	DI	DD	3	1	1	-	55	E	5	-	-	-	-	-	-	-
3	Systems theory and automatic control / Teoria sistemelor și reglaj automat	EE.03.03.5	DI	DD	2	1	-	-	83	E	5	-	-	-	-	-	-	-
4	Static power converters / Convertoare statice de putere	EE.03.04.5	DI	DD	2	-	1	-	58	E	4	-	-	-	-	-	-	-
5	Hydraulic and pneumatic action / Acționări hidraulice si pneumatice	EE.03.05.5	DI	DD	3	1	-	-	69	E	5	-	-	-	-	-	-	-
6	Equipment for heating, ventilation, air conditioning / Echipamente pentru încălzire, ventilație, aer condiționat	EE.03.06.5	DI	DS	2	1	-	-	8	V	2	-	-	-	-	-	-	-
7	Transducers, interfaces and data acquisitions / Traductoare, interfețe si achiziții de date	EE.03.07.6	DI	DD	-	-	-	-	-	-	-	2	-	1	-	58	E	4
8	Engineering computing environments / Medii de calcul ingineresc	EE.03.08.6	DI	DS	-	-	-	-	-	-	-	1	-	2	-	8	V	2
9	Electrical and electronics measurements / Măsurări electrice si electronice	EE.03.09.6	DI	DD	-	-	-	-	-	-	-	2	-	1	-	58	E	4
10	International law / Drept internațional	EE.03.10.6	DI	DC	-	-	-	-	-	-	-	-	1	-	-	36	V	2
11	Communication skills in English / Competente de comunicare In limba engleza	EE.03.11.6	DI	DC	-	-	-	-	-	-	-	-	2	-	-	22	V	2
12	Renewable sources of energy / Surse regenerabile de energie	EE.03.12.6	DI	DS	-	-	-	-	-	-	-	2	-	1	-	33	V	3
13	Electric machines II / Mașini electrice II	EE.03.13.6	DI	DD	-	-	-	-	-	-	-	3	-	1	-	19	E	3
14	Electric machines project / Proiect mașini electrice	EE.03.14.6	DI	DD	-	-	-	-	-	-	-	-	-	-	1	11	V	1
15	Electrical apparatus / Aparate electrice	EE.03.15.6	DI	DD	-	-	-	-	-	-	-	3	-	2	-	55	E	5
16	Specialty Practice / Practica de specialitate	EE.03.16.6	DI	DS	-	-	-	-	-	-	-	3 wks.x30 hrs./week					V	2
Total compulsory hours (credit points) per week					15	5	3	-	353	5E+1C	27	13	3	8	1	300	4E+6C	28
					23				353			25				300		

Note: SI-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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OPTIONAL DISCIPLINES

No. 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																		
1	Telecommunication systems / Sisteme de telecomunicații	EE.03.17.5	DO	DS	2	-	1	-	33	V	3	-	-	-	-	-	-	-
2	European integration / Integrare europeana	EE.03.18.6	DO	DC	-	-	-	-	-	-	-	-	1	-	-	36	V	2
Package B																		
1	Naval radioelectronic equipment / Echipamente radioelectronice navale	EE.03.17.5	DO	DS	2	-	1	-	33	V	3	-	-	-	-	-	-	-
2	Integrity and academic ethics / Integritate si etica academica	EE.03.18.6	DO	DC	-	-	-	-	-	-	-	-	1	-	-	36	V	2
Total optional hours (credit points) per week					2	-	1	-	33	1V	3	-	1	-	-	36	1V	2
					26				33	-	30	26				36		

FACULTATIVE DISCIPLINES

No. 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	Volunteering / Voluntariat	EE.03.19.5	DL	DC	-	2	-	-	22	V	2	-	-	-	-	-	-	-
2	Onboard practice / Practica ambarcata	EE.03.20.6	DL	DS	-	-	-	-	-	-	-	4 wks.x56 hrs./week					V	2
Total facultative hours (credit points) per week					-	2	-	-	22	1V	2	-	-	-	-	-	1V	2
					2				22			-				-		

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Year IV

COMPULSORY SUBJECTS

No. 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	Electrical drives I / Acţionări electrice I	EE.04.01.7	DI	DD	3	1	1	-	55	E	5	-	-	-	-	-	-	-
2	Electrical navigation apparatus / Aparate electrice de navigaţie	EE.04.02.7	DI	DS	2	1	-	-	69	E	5	-	-	-	-	-	-	-
3	Special electric machines / Maşini electrice speciale	EE.04.03.7	DI	DS	2	-	-	1	58	E	4	-	-	-	-	-	-	-
4	Naval electrical installations / Instalaţii electrice navale	EE.04.04.7	DI	DS	3	-	1	1	30	E	4	-	-	-	-	-	-	-
5	Complex naval automation / Automatizări navale complexe	EE.04.05.7	DI	DS	2	1	-	-	33	V	3	-	-	-	-	-	-	-
6	High voltage technique / Tehnica tensiunilor înalte	EE.04.06.7	DI	DS	2	-	1	1	69	E	5	-	-	-	-	-	-	-
7	Quality and reliability in naval electrical engineering / Calitate si fiabilitate in ingineria electrica navala	EE.04.07.7	DI	DS	2	1	-	-	58	V	4	-	-	-	-	-	-	-
8	Use of electricity / Utilizarea energiei electrice	EE.04.08.8	DI	DS	-	-	-	-	-	-	-	2	-	-	1	33	E	3
9	Production, transmission and distribution of electricity / Producerea, transportul si distribuţia energiei electrice	EE.04.09.8	DI	DD	-	-	-	-	-	-	-	2	-	-	1	58	E	4
10	Management / Management	EE.04.10.8	DI	DD	-	-	-	-	-	-	-	2	1	-	-	33	V	3
11	Electrical drives II / Acţionări electrice II	EE.04.11.8	DI	DD	-	-	-	-	-	-	-	3	-	1	-	44	E	4
12	Practice elaboration of diploma project / Practica elaborare proiect de diploma	EE.04.12.8	DI	DS	-	-	-	-	-	-	-	2 wks.x30 hrs./week					V	4
13*	Elaboration of diploma project / Elaborare proiect de diploma	EE.04.13.8	DI	DS	-	-	-	-	-	-	-	2 wks.x28 hrs./week					-	10
Total compulsory hours (credit points) per week					16	4	3	3	372	5E+2C	30	9	1	1	2	168	3E+2V	18
					26				372			13				168		

* support exam project diploma is awarded additional 10 ECTS credits

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

DF – Fundamental discipline , DD-Domain discipline -, DS – Specialty discipline , DC – Complementary discipline, DI – Compulsory discipline, DO – elective discipline, DL – optional discipline

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OPTIONAL DISCIPLINES

No. 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																		
1	Energy conversion / Conversia energiei	EE.04.14.8	DO	DS	-	-	-	-	-	-	-	2	-	2	-	19	V	3
2	Mechanisms / Mecanisme	EE.04.15.8	DO	DS	-	-	-	-	-	-	-	2	-	1	-	33	E	3
3	Electrothermics / Electrotermie	EE.04.16.8	DO	DS	-	-	-	-	-	-	-	1	-	1	-	22	V	2
4	Electromagnetic waves / Unde electromagnetice	EE.04.17.8	DO	DS	-	-	-	-	-	-	-	2	1	-	-	33	E	3
5	Energy sources / Surse de energie	EE.04.18.8	DO	DD	-	-	-	-	-	-	-	-	-	-	1	11	V	1
Package B																		
1	Automatic systems control / Comanda sistemelor industriale integrate	EE.04.14.8	DO	DS	-	-	-	-	-	-	-	2	-	2	-	19	V	3
2	Operation, repair and maintenance of naval electrical installations / Exploatarea, reparația si întreținerea instalațiilor electrice navale	EE.04.15.8	DO	DS	-	-	-	-	-	-	-	2	-	1	-	33	E	3
3	Naval radiocommunications / Radiocomunicații navale	EE.04.16.8	DO	DS	-	-	-	-	-	-	-	1	-	1	-	22	V	2
4	Electric propulsion / Tracțiune electrica	EE.04.17.8	DO	DS	-	-	-	-	-	-	-	2	1	-	-	33	E	3
5	Project electrical drivers / Proiect acționări electrice	EE.04.18.8	DO	DD	-	-	-	-	-	-	-	-	-	-	1	11	V	1
Total optional hours (credit points) per week					-	-	-	-	-	-		7	1	4	1	118	2E+3V	12
					-				-	-	-	13				118		

FACULTATIVE DISCIPLINES

No. 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	Volunteering / Voluntariat	EE.04.19.7	DL	DC	-	2	-	-	22	V	2	-	-	-	-	-	-	-
2	Foreign language / Limba străină	EE.04.20.8	DL	DC	-	3	-	-	8	V	2	-	-	-	-	-	-	-
Total facultative hours (credit points) per week					-	5	-	-	30	2V	4	-	-	-	-	-	-	-
					5				30			-				-		

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GENERAL REPORT

No. Crt.	Disciplines	No. hours				Total hours	%	No. credits				Total	ARACIS Standard
		YEAR I	YEAR II	YEAR III	YEAR IV			YEAR I	YEAR II	YEAR III	YEAR IV		
1	Compulsory	672	762	762	606	2802	88.50	52	55	55	48	210	<90%
2	Optional	70	56	56	182	364	11.50	8	5	5	12	30	>10%
3	Total	742	818	818	788	3166	100.00	60	60	60	60	240	
4	Facultative	168	112	28	70	378	11.94	14	11	4	4	33	

DISTRIBUTION OF FUNDAMENTAL, PROFILE DISCIPLINES, SPECIALITY AND COMPLEMENTARY DISCIPLINES

TYPE OF DISCIPLINE	NUMBER HOURS				TOTAL		ARACIS STANDARD
	YEAR I	YEAR II	YEAR III	YEAR IV	HOURS	%	
Fundamental disciplines (DF)	462	98	0	0	560	17.69	>17%
Domain Specific Disciplines (DD)	56	566	504	224	1350	42.64	>38%
Specialty disciplines (DS)	84	98	258	564	1004	31.71	>25%
Complementary disciplines (DC)	140	56	56	0	252	7.96	<8%
Total	**742**	**818**	**818**	**788**	**3166**	**100.00**	

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