



CURRICULUM

Professional orientation: **Transport, Navigation and Aviation**

Program: **Electrical Equipment of Ships**

Professional qualification: **Engineer on Ships Electrical Equipment**

Educational and qualificational degree: **Bachelor**

Form of study: **Full - Time**

Term of study: **4 years / 8 semesters**

No	Subject Name	Types of term control				Semester auditorium load					Unsupervised load	Total work hours	ECTS credits
		E	PA	CP	A	L	S	L	CP CPR	Total			
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Mathematics, part 1	1				15	45			60	135	195	7
2	Physics	1				30	15	15		60	135	195	7
3	Computer Technologies		1			15		15		30	105	135	5
4	Technical Documentation		1			15		15		30	105	135	5
5	English, part 1				1		30			30	30	60	2
6	Practical Training, part 1				1						120	120	4
7	Elective Subject				1						30	30	1
7a	Specialized Sport Activities, part 1				1						30	30	1
7b	Sport and Social Adaptation, part 1				1						30	30	1
Total for the 1 semester:		2	2		3	75	90	45		210	660	870	31
	Specialized Sport Activities, part 2				2						30	30	1
8	Mathematics, part 2	2				30	30			60	75	135	5
9	Theoretical Electrical Engineering, part 1	2				30		30		60	75	135	5
10	General Arrangement of Ships	2				30		15		45	90	135	5
11	Electrical Measurements	2				30		30		60	75	135	5
12	Materials in Electrical Engineering		2			30		30		60	75	135	5
13	Industrial Chemistry		2			15		30		45	60	105	4
14	English, part 2				2		30			30	30	60	2
15	Practical Training, part 2				2						120	120	4
16	Elective Subject				2						30	30	1
16b	Sport and Social Adaptation, part 2				2						30	30	1
Total for the 2 semester:		4	2		3	165	60	135		360	630	990	36
17	Theoretical Electrical Engineering, part 2	3				30		30		60	105	165	6
18	Technical Mechanics	3				30	15			45	90	135	5
19	Ship Power Electronics, part 1		3			30		15		45	90	135	5
20	Maritime Law	3				30	15			45	90	135	5
21	Electrical Machines and Apparatus, part 1	3				30		30		60	105	165	6
22	English, part 3		3				30			30	30	60	2
23	Practical Training, part 3				3						90	90	3

No	Subject Name	Types of term control				Semester auditorium load					Unsupervised load	Total work hours	ECTS credits
		E	PA	CP	A	L	S	L	CP CPR	Total			
1	2	3	4	5	6	7	8	9	10	11	12	13	14
24	Practice in Technical Mechanics				3						30	30	1
25	Elective Subject				3						30	30	1
25a	Specialized Sport Activities, part 3				3						30	30	1
25b	Sports Management, part 1				3						30	30	1
Total for the 3 semester:		4	2		3	150	60	75		285	660	945	34
26	Electrical Machines and Apparatus, part 2	4				30		30		60	75	135	5
27	Material Science	4				15		15		30	75	105	4
28	Fluid Mechanics	4				15		15		30	75	105	4
29	Technical Thermodynamics	4				30		30		60	75	135	5
30	Digital and Microprocessor Technics		4			30		30		60	75	135	5
31	English Language - specialized, part 1		4				30			30	60	90	3
32	Practical Training, part 4				4						120	120	4
33	Elective Subject				4						30	30	1
33a	Specialized Sport Activities, part 4				4						30	30	1
33b	Sports Management, part 2				4						30	30	1
Total for the 4 semester:		4	2		2	120	30	120		270	585	855	31
34	Ship Electronics and Microprocessor Systems	5				30		30		60	105	165	6
35	High Voltage Engineering	5				30		30		60	105	165	6
36	Ships Machines, Mechanisms, Systems and Equipment	5				30		30		60	105	165	6
37	Base of Automation		5			30	15	15		60	75	135	5
38	English Language - specialized, part 2		5				30			30	60	90	3
39	Technical Safety	5				30		15		45	60	105	4
40	Practical Training, part 5				5						120	120	4
Total for the 5 semester:		4	2		1	150	45	120		315	630	945	34
41	Elements of Ships Automation	6				30		30		60	105	165	6
42	Power Supply Stations in Specialized Floating Objects	6				30		30		60	105	165	6
43	Ships Electric Power Systems, part 1	6				30		30		60	105	165	6
44	Ship Power Electronics, part 2	6				30		30		60	105	165	6
45	English Language - specialized, part 3		6				30			30	60	90	3
46	Practical Training, part 6				6						120	120	4
Total for the 6 semester:		4	1		1	120	30	120		270	600	870	31
47	Ships Electric Power Systems, part 2	7				30		30		60	105	165	6
48	Ship Electrical Drives and Electrical Propulsion, part 1	7				30		30		60	135	195	7
49	Maintenance of Ships Electronic and Electrical Equipment, part 1		7			30		30		60	105	165	6
50	Ships Electric Power Systems, project			7					30	30	75	105	4
51	English Language - specialized, part 4		7				60			60	60	120	4
52	Practical Training, part 7				7						90	90	3
53	Educational Technological and Simulator Practice				7						30	30	1
Total for the 7 semester:		2	2	1	2	90	60	90	30	270	600	870	31
54	Ship Complex Automation	8				30		30		60	105	165	6
55	Ship Electrical Drives and Electrical Propulsion, part 2	8				30		30		60	105	165	6
56	Installation, Operation, Dagnostics and Repair of Ship Electrical Equipment	8				30		30		60	75	135	5
57	Maintenance of Ships Electronic and Electrical Equipment, part 2	8				15		15		30	75	105	4
58	English Language - specialized, part 5		8				60			60	105	165	6
59	Practical Training, part 8				8						120	120	4

No	Subject Name	Types of term control				Semester auditorium load					Unsuper vised load	Total work hours	ECTS credits
		E	PA	CP	A	L	S	L	CP CPR	Total			
1	2	3	4	5	6	7	8	9	10	11	12	13	14
60	Onboard Training				8						960	960	32
Total for the 8 semester:		4	1		2	105	60	105		270	1545	1815	63
Total for all courses of education:		28	14	1	17	975	435	810	30	2250	5910	8160	291

Facultative subjects

No	Subject Name	Types of term control				Semester auditorium load incl:					Unsuper-vised load	Total work hours	ECTS credits
		E	PA	CP	A	L	S	L	CP CPR	Total			
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Additional Training for Seafarers in Compliance with STCW Convention, part 1				2	40		20		60	60	120	4
2	Additional Training for Seafarers in Compliance with STCW Convention, part 2				4	20		6		26	34	60	2
3	Additional Training for Seafarers in Compliance with STCW Convention, part 3				6	12		28		40	50	90	3
4	Additional Training for Seafarers in Compliance with STCW Convention, part 4				7	20		20		40	50	90	3
5	Additional Training for Seafarers in Compliance with STCW Convention, part 5				8	55		40		95	95	190	7
6	Additional Training for Seafarers in Compliance with STCW Convention, part 6				6	23		17		40	50	90	3

Types of graduation	Semester	Unsupervised load	ECTS credits
State Examination in English	8	300	10
Preparation for State Examinations	8		
	8		

Note:

1. The duration of the optional discipline "Onboard Training" is 6 months. It is conducted after the 4th, 6th and 8th semester and/or partially during the period of state exams preparation.
2. The facultative subjects are a necessary prerequisite for starting an onboard practice aimed at attaining seafarer's license.

Accepted from AU with

Protocol No 11 / 06.06.2016

Modified with Protocols No 18 / 23.01.2017

Valid from the 2016 / 2017 academic year.

The weekly allocation of the classes is fixed according to the "Structure of the Learning Process" Academic Board adopted for the current academic year.

Head of Department EPSEE:

/ Assoc. Prof. PhD Gyurov V. /

Dean of Faculty FEE:

/ Assoc. Prof. PhD Yordanova M. /