



CURRICULUM

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

Program: **Marine Engineering**

Professional qualification: **Marine Engineer**

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	Higher Mathematics, part 1	1				30		30		175	115	290	7
2	Computer Aided Design, part 1		1					30		125	95	220	5
3	Technical Chemistry	1				30		15		150	105	255	6
4	Technical Drawing		1					30		105	75	180	4
5	Academic Vocational Training I, part 1				1					60	60	120	2
6	Optional Subject				1					30	30	60	1
6a	Specialized Sport Activities, part 1				1						30	30	1
6b	Sport and Social Adaptation, part 1				1						30	30	1
7	English, part 1				1		30			60	30	90	2
8	Practical Training, part 1				1					75	75	150	3
Total for the 1 semestar:		2	2		4	60	30	105		780	585	1365	30
9	Higher Mathematics, part 2	2				30		30		135	75	210	5
10	Physics	2				30		15		135	90	225	5
11	Material Science and Technology	2				30		30		135	75	210	5
12	Electrical Engineering and Electronics, part 1		2			30		30		135	75	210	5
13	Technical Mechanics	2				30		30		135	75	210	5
14	English, part 2		2				30			60	30	90	2
15	Optional Subject				2					30	30	60	1
15a	Specialized Sport Activities, part 2				2						30	30	1
15b	Sport and Social Adaptation, part 2				2						30	30	1
16	Academic Vocational Training I, part 2				2					60	60	120	2
17	Practical Training, part 2				2					75	75	150	3
Total for the 2 semestar:		4	2		3	150	30	135		900	585	1485	33
18	Strength of Materials	3				30		30		165	105	270	6
19	Computer Aided Design, part 2		3					30		90	60	150	3
20	Technical Thermodynamics and Heat Transfer	3				30		30		135	75	210	5
21	Fluid Mechanics	3				30		15		105	60	165	4
22	Electrical Engineering and Electronics, part 2	3				30		30		135	75	210	5
23	English, part 3		3				30			60	30	90	2

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	Optional Subject				3					30	30	60	1
24a	Specialized Sport Activities, part 3				3						30	30	1
24b	Sports Management, part 1				3						30	30	1
25	Academic Vocational Training II, part 1				3					60	60	120	2
26	Practical Training, part 3				3					75	75	150	3
Total for the 3 semestar:		4	2		3	120	30	135		855	570	1425	31
27	Machine Elements	4				30		30		135	75	210	5
28	Ship Theory and General Arrangements	4				30		15		135	90	225	5
29	Theory of Mechanisms and Machines	4				30		15		135	90	225	5
30	Marine Hydraulic Machines	4				30		15		105	60	165	4
31	Heat-Engineering Measurements		4			30		15		105	60	165	4
32	English Language - specialized, part 1		4				30			60	30	90	2
33	Optional Subject				4					30	30	60	1
33a	Specialized Sport Activities, part 4				4						30	30	1
33b	Sports Management, part 2				4						30	30	1
34	Academic Vocational Training II, part 2				4					75	75	150	3
35	Practical Training, part 4				4					75	75	150	3
Total for the 4 semestar:		4	2		3	150	30	90		855	585	1440	32
36	Electrical Equipment of Ships	5				30		30		135	75	210	5
37	Marine Deck Machinery and General Ship Service Systems	5				30		15		105	60	165	4
38	Marine Steam and Gas Turbines	5				30		15		135	90	225	5
39	Maritime Law		5			30		15		105	60	165	4
40	Marine Diesel Engines, part 1				5	30		15		105	60	165	4
41	Marine Auxiliary Machinery	5				30		15		105	60	165	4
42	English Language - specialized, part 2		5				30			60	30	90	2
43	Academic Vocational Training III, part 2				5					60	60	120	2
44	Practical Training, part 5				5					75	75	150	3
Total for the 5 semestar:		4	2		3	180	30	105		885	570	1455	33
45	Automatic Control of Ship Power Systems	6				30		30		195	135	330	7
46	Marine Diesel Engines, part 2	6				30		15		165	120	285	6
47	Marine Diesel Engines, project			6					30	60	60	120	3
48	Technical Safety and Control of Environmental Effects		6			30		15		135	90	225	5
49	Marine Boilers	6				30		15	15	135	90	225	6
50	English Language - specialized, part 3		6				30			60	30	90	2
51	Academic Vocational Training III, part 2				6					75	75	150	3
52	Practical Training, part 6				6					75	75	150	3
Total for the 6 semestar:		3	2	1	2	120	30	75	45	900	675	1575	35
53	Ship Electronics and Microprocessor Systems	7				30		30		135	75	210	5
54	Ship Power Plants, part 1				7	30		15		105	60	165	4
55	Ship Power Plants Testing	7				30		30		135	75	210	5
56	Marine Machinery Building Technology	7				30		30		135	75	210	5
57	Vibrations and Vibrodiagnostics of Marine Machinery	7				30		30		135	75	210	5
58	English Language - specialized, part 4		7				60			120	60	180	4
59	Practical Training, part 7				7					60	60	120	2
Total for the 7 semestar:		4	1		2	150	60	135		825	480	1305	30
60	Ship Power Plants, part 2	8				30		15		135	90	225	5

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
61	Ship Power Plants, project			8					30	30	30	60	2
62	Technical Maintenance and Repair of Marine Machinery	8				30		30		135	75	210	5
63	Technical Operation of Ship Power Plants	8				30		30		165	105	270	6
64	English Language - specialized, part 5		8				60			120	60	180	4
65	Practical Training, part 8				8					60	60	120	2
66	Optional Subject				8					960	960	1920	32
66a	Onboard Training				8						960	960	32
66b	Shipyards Training				8						960	960	32
Total for the 8 semestars:		3	1	1	2	90	60	75	30	1605	1380	2985	56
Total for all courses of education:		28	14	2	22	1020	300	855	75	7605	5430	13035	280

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

Types of graduation	Semester	Unsupervised load	ECTS credits
State examination in English	8	300	10

Note:

1. The duration of the optional subject "Onboard Training" or "Shipyard 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 a onboard practice aimed at attaining seafarer's license.
3. The curriculum is valid for teaching in Bulgarian and English language.

Accepted from AU with

Protokol No 11 / 06.06.2016

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Valid for 2016 / 2017 г. academic year.

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