



CURRICULUM

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

Program: **Navigation**

Professional qualification: **Engineer Navigator**

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				15	45			60	115	175	7
2	Computer Science and Computer Technology	1				15		15		30	75	105	4
3	Commodity Science		1			30		30		60	90	150	6
4	Engineering Graphics				1	15	15			30	75	105	4
5	First Medical Aid		1			30		15		45	60	105	4
6	English, part 1		1				45			45	60	105	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	3		2	105	105	60		270	505	775	30
8	Higher Mathematics, part 2	2				30	30			60	60	120	4
9	Seamanship	2				30		30		60	60	120	4
10	Technical Mechanics		2			30	15			45	60	105	4
11	Physics	2				30		15		45	60	105	4
12	Basic Training on Safety Issues		2			30		30		60	60	120	4
13	English, part 2		2				45			45	60	105	4
14	Elective Subject				2						30	30	1
14a	Specialized Sport Activities, part 2				2						30	30	1
14b	Sport and Social Adaptation, part 2				2						30	30	1
15	Navigation Training, part 1				2						480	480	16
Total for the 2 semester:		3	3		2	150	90	75		315	870	1185	41
16	International Maritime Conventions	3				30	15			45	90	135	5
17	Leadership and Teamwork	3				15	15			30	105	135	5
18	Methods and Means for Environmental Preservation	3				15	15			30	75	105	4
19	Safety of Navigation	3				30	15			45	105	150	6
20	Electrical Engineering and Electronics		3			30		15		45	90	135	5
21	English, part 3		3				45			45	90	135	5
22	Elective Subject				3						30	30	1
22a	Specialized Sport Activities, part 3				3						30	30	1

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	
22b	Sports Management, part 1				3						30	30	1	
Total for the 3 semester:		4	2		1	120	105	15		240	585	825	31	
23	Meteorology and Oceanography	4				45	15	15		75	75	150	6	
24	Navigation I, part 1	4				30	15	15		60	90	150	6	
25	Ship Theory and General Arrangements	4				30	30			60	90	150	6	
26	English, part 4		4				45			45	90	135	5	
27	Elective Subject				4						30	30	1	
27a	Specialized Sport Activities, part 4				4						30	30	1	
27b	Sports Management, part 2				4						30	30	1	
28	Navigation Training, part 2				4						480	480	16	
Total for the 4 semester:		3	1		2	105	105	30		240	855	1095	40	
29	Navigation I, part 2	5				30		30		60	90	150	6	
30	Ships Operation and Cargo Handling, part 1	5				30	15			45	90	135	5	
31	On Shipboard Damage Control	5				30	30			60	75	135	5	
32	Pilotage and Hydrography	5				15	15			30	75	105	4	
33	English, part 5		5				45			45	90	135	5	
34	Ship Power Plants	5				30		15		45	90	135	5	
Total for the 5 semester:		5	1			135	105	45		285	510	795	30	
35	Astronavigation	6				45		15		60	60	120	4	
36	Technical Aids to Navigation	6				30	15	15		60	60	120	4	
37	English, part 6		6				45			45	60	105	4	
38	Theory of Manoeuvring	6				15		30		45	60	105	4	
39	Ships Operation and Cargo Handling, part 2	6				30	15			45	90	135	5	
40	Navigation II	6				30		30		60	60	120	4	
41	Navigation Training, part 3				6						480	480	16	
Total for the 6 semester:		5	1		1	150	75	90		315	870	1185	41	
42	Navigation III	7				30		30		60	90	150	6	
43	Usage of ECDIS (Electronic Chart Display and Information System) and AIS (Automatic Identification System)	7				30		30		60	90	150	6	
44	English, part 7		7				45			45	90	135	5	
45	Radar Watch and Plotting		7			30		15		45	105	150	6	
46	Ship's Handling, Bridge Team Management and Teamwork	7				30	30			60	75	135	5	
47	Collision Regulations, part 1	7						45		45	90	135	5	
Total for the 7 semester:		4	2			120	75	120		315	540	855	33	
48	English Simulator in Emergencies		8					45		45	75	120	4	
49	Communications at Sea	8				30	15			45	90	135	5	
50	GMDSS (Global Maritime Distress and Safety System)	8				30		30		60	90	150	6	
51	English, part 8	8					60			60	90	150	6	
52	Collision Regulations, part 2	8						60		60	75	135	5	
Total for the 8 semester:		4	1			60	75	135		270	420	690	26	
Total for all courses of education:		30	14			8	945	735	570		2250	5155	7405	272

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		15		55	55	110	4
2	Additional Training for Seafarers in Compliance with STCW Convention, part 2				6	60		40		100	100	200	7
3	Additional Training for Seafarers in Compliance with STCW Convention, part 3				4	20		6		26	26	52	2
4	Navigation with ECDIS & AIS (chapter II, A – II/1)				8	22		20		42	58	100	4
5	Bridge Resources Management and Teamwork (chapter II, A – II/1)				8	20		20		40	40	80	3
6	Navigation with Radar and ARPA (chapter II, A – II/1)				7	30		40		70	70	140	5
7	GMDSS Ship General Operator Category (Chapter IV, A – IV/2)				7	62		64		126	126	252	9

Types of graduation	Semester	Unsupervised load	ECTS credits
State Examination in English	8	300	10
Preparation for State Examination	8		
State Examination in Navigation	8		
State Examination in Ship Cargo Handling	8		

Note:

1. The facultative subjects shall be conducted in accordance with the requirements of the STCW-78 Convention as amended and Ordinance No. 6 on Seafarers Competence in the Republic of Bulgaria. The training is conducted in courses, according to the National Standard of the Executive Agency "Maritime Administration" of the Republic of Bulgaria and according to the procedure regulated therein.

2. The curriculum is valid for teaching in Bulgarian and English language.

Accepted from AU with

Protocol No 11 / 06.06.2016

Modified with Protocols No 18 / 23.01.2017, No 44 / 01.07.2019

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 NT:

/ Assoc. Prof. PhD Dyakov B. /

Dean of Faculty FSB:

/ Assoc. Prof. PhD Hadzhidimov I. /