



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			175	115	290	7
2	Computer Science and Computer Technology	1				15		15		105	75	180	4
3	Commodity Science		1			30		30		150	90	240	6
4	Engineering Graphics				1	15	15			105	75	180	4
5	First Medical Aid		1			30		15		105	60	165	4
6	English, part 1		1				45			105	60	165	4
7	Optional Subject				1					30	30	60	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 semestar:		2	3		2	105	105	60		775	505	1280	30
8	Higher Mathematics, part 2	2				30	30			120	60	180	4
9	Seamanship	2				30		30		120	60	180	4
10	Technical Mechanics		2			30	15			105	60	165	4
11	Physics	2				30		15		105	60	165	4
12	Basic Training on Safety Issues		2			30		30		120	60	180	4
13	English, part 2		2				45			105	60	165	4
14	Optional Subject				2					30	30	60	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	960	16
Total for the 2 semestar:		3	3		2	150	90	75		1185	870	2055	41
16	International Maritime Conventions	3				30	15			135	90	225	5
17	Leadership and Teamwork	3				15	15			135	105	240	5
18	Methods and Means for Environmental Preservation	3				15	15			105	75	180	4
19	Safety of Navigation	3				30	15			150	105	255	6
20	Electrical Engineering and Electronics		3			30		15		135	90	225	5
21	English, part 3		3				45			135	90	225	5
22	Optional Subject				3					30	30	60	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
226	Sports Management, part 1				3						30	30	1
Total for the 3 semestar:		4	2		1	120	105	15		825	585	1410	31
23	Meteorology and Oceanography	4				45	15	15		150	75	225	6
24	Navigation I, part 1	4				30	15	15		150	90	240	6
25	Ship Theory and General Arrangements	4				30	30			150	90	240	6
26	English, part 4		4				45			135	90	225	5
27	Optional Subject				4					30	30	60	1
27a	Specialized Sport Activities, part 4				4						30	30	1
276	Sports Management, part 2				4						30	30	1
28	Navigation Training, part 2				4					480	480	960	16
Total for the 4 semestar:		3	1		2	105	105	30		1095	855	1950	40
29	Navigation I, part 2	5				30		30		150	90	240	6
30	Ships Operation and Cargo Handling, part 1	5				30	15			135	90	225	5
31	On Shipboard Damage Control	5				30	30			135	75	210	5
32	Pilotage and Hydrography	5				15	15			105	75	180	4
33	English, part 5		5				45			135	90	225	5
34	Ship Power Plants	5				30		15		135	90	225	5
Total for the 5 semestar:		5	1			135	105	45		795	510	1305	30
35	Astronavigation	6				45		15		120	60	180	4
36	Technical Aids to Navigation	6				30	15	15		120	60	180	4
37	English, part 6		6				45			105	60	165	4
38	Theory of Manoeuvring	6				15		30		105	60	165	4
39	Ships Operation and Cargo Handling, part 2	6				30	15			135	90	225	5
40	Navigation II	6				30		30		120	60	180	4
41	Navigation Training, part 3				6					480	480	960	16
Total for the 6 semestar:		5	1		1	150	75	90		1185	870	2055	41
42	Navigation III	7				30		30		150	90	240	6
43	Usage of ECDIS (Electronic Chart Display and Information System) and AIS (Automatic Identification System)	7				30		30		150	90	240	6
44	English, part 7		7				45			135	90	225	5
45	Radar Watch and Plotting		7			30		15		150	105	255	6
46	Ship's Handling, Bridge Team Management and Teamwork	7				30	30			135	75	210	5
47	Collision Regulations, part 1	7						45		135	90	225	5
Total for the 7 semestar:		4	2			120	75	120		855	540	1395	33
48	English Simulator in Emergencies		8					45		120	75	195	4
49	Communications at Sea	8				30	15			135	90	225	5
50	GMDSS (Global Maritime Distress and Safety System)	8				30		30		150	90	240	6
51	English, part 8	8					60			150	90	240	6
52	Collision Regulations, part 2	8						60		135	75	210	5
Total for the 8 semestar:		4	1			60	75	135		690	420	1110	26
Total for all courses of education:		30	14		8	945	735	570		7405	5155	12560	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)				7	22		20		42	58	100	4
5	Bridge Resources Management and Teamwork (chapter II, A – II/1)				7	20		20		40	40	80	3
6	Navigation with Radar and ARPA (chapter II, A – II/1)				8	30		40		70	70	140	5
7	GMDSS Ship General Operator Category (Chapter IV, A – IV/2)				8	62		64		126	126	252	9

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

Accepted from AU with

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Valid for 2016 / 2017 r. academic year.

Head of Department NTMWP:

/ Assoc. Prof. PhD Dyakov B. /

Dean of Faculty FSB:

/ Assoc. Prof. PhD Dichev Pl. /