



Approved:

Rector:

/Prof. Rosen Vasilev, D.Sc./

CURRICULUM

Professional field of study: **TRANSPORTATION, NAVIGATION AND AVIATION**

Included in the Curriculum of the specialty: **NAVAL ARCHITECTURE AND MARINE TECHNOLOGY**

Professional Qualification: **MECHANICAL ENGINEER**

Higher Education Qualification: **BACHELOR'S DEGREE**

Studding: **FULL-TIME**

Period of study: **4 YEARS / 8 SEMESTERS**

№	Name of the discipline	Forms of assessment				Auditorium workload						Extracurricular activities	Student total workload	Credits
		Examination	Continuous Assessment	Course project	Pass / Failed	Lectures	Seminars			Laboratory classes	Total hours			
							Seminar classes	Course project	Course work					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	Mathematics, part 1	*				30				30	60	135	195	7
2	Computer technologies		*			15				30	45	120	165	6
3	Graphical Documentation in Naval Architecture - part 1		*			15				30	45	160	205	8
4	Fundamentals of Naval Architecture and Marine Technology	*				30				15	45	160	205	8
5	Optional				*						0	30	30	1
a	Specialized Sport Activities – part 1													
b	Sports and Social Adaptation – part 1													
c	Introduction to Marine English – part 1													
	1 semester total:	2	2	0	1	90	0	0	0	105	195	605	800	30
6	Mathematics, part 2	*				30				30	60	75	135	5
7	Chemistry	*				30				15	45	45	90	3
8	Material Science and Technology	*				30				30	60	75	135	5
9	Graphical Documentation in Naval Architecture- part 2		*						15	30	45	45	90	3
10	Physics	*				30	15			15	60	75	135	5
11	Computer Graphics		*			15				30	45	45	90	3
12	English – part 1				*		15				15	45	60	2
13	Optional				*							30	30	1
a	Specialized Sport Activities – part 2													
b	Sports and social adaptation – part 2													
c	Introduction to marine English – part 2													
14	Practice – Part 1				*							60	60	2
15	Introduction practice				*							30	30	1

	2 semester total:	4	2	0	4	135	30	0	15	150	330	525	855	30
16	Thermal technologies	*				30				15	45	90	135	5
17	Mechanics	*				30	15			15	60	105	165	6
18	Hydrodynamics of ships	*				30				30	60	105	165	6
19	Graphical Documentation in Naval Architecture part 3		*			15				30	45	60	105	4
20	English – part 2				*		30				30	30	60	2
21	Optional		*			30	15				45	90	135	5
a	Economics													
b	Industrial Management													
22	Optional				*							30	30	1
a	Specialized Sport Activities – part 3													
b	Sports and Social Adaptation – part 3													
c	Introduction to Marine English – part 3													
23	Prasctice – Part 2				*							60	60	2
	3 semester total:	3	2	0	3	135	60	0	0	90	285	570	855	31
№	Name of the discipline	Forms of assessment				Auditorium workload					Extracurricular activities	Student total workload	Credits	
		Examination	Continuous Assessment	Course project	Pass / Failed	Lectures	Seminars			Laboratory classes				Total hours
Seminar classes	Course project						Course work							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
24	Strength of Materials	*				30	15			15	60	105	165	6
25	Machine Elements	*				30			15	15	60	105	165	6
26	Marine Power Plants	*				30				15	45	90	135	5
27	Electrical Science and Electronics	*				30				15	45	120	165	6
28	Stability and Motions of Ships and Marine Structures – part 1		*			30			15	15	60	105	165	6
29	English - part 3		*				30				30	30	60	2
30	Optional				*							30	30	1
a	Specialized Sport Activities – part 4													
b	Sports and Social adaptation – part 4													
c	Introduction to Marine English – part 4													
	4 semester total:	4	2	0	1	150	45	0	30	75	300	585	885	32
31	Marine Piping Systems	*				30				30	60	135	195	7
32	Stability and Motions of Ships and Marine Structures – part 2	*				30				15	45	120	165	6
33	Resistance, Propulsion and Maneuvering of Ships and Marine Structures – part 1		*			30				15	45	120	165	6
34	Electrical Equipment of Ships and Marine Structures	*				30				15	45	90	135	5
35	Technical Safety		*			15					15	45	60	2
36	English – part 4				*		15				15	45	60	2
37	Optional		*			30					30	60	90	3
a	Philosophy													
6	History of Technology													
	5 semester total:	3	3	0	1	165	15	0	0	75	255	615	870	31

38	Structural Mechanics of Ships and Marine Structures	*				30				30	60	135	195	7
39	Resistance, Propulsion and Maneuvering of Ships and Marine Structures – part 2	*				30				30	60	75	135	5
40	Resistance, Propulsion and Maneuvering of Ships and Marine Structures – project			*				30			30	30	60	2
41	Vibrations of Ships and Marine Structures	*				15				15	30	60	90	3
42	Welding of Marine Structures	*				30				30	60	60	120	4
43	Strength and Structure of Ships – part 1		*			30				15	45	90	135	5
44	English - part 5				*		30				30	30	60	2
45	Specialized practice				*							60	60	2
6 semester total:		4	1	1	2	135	30	30	0	120	315	540	855	30
46	Strength and Structure of Ships – part 2	*				30				30	60	105	165	6
47	Strength and Structure of Ships - project			*				30			30	30	60	2
48	Hull and Safety Equipment	*				30				30	60	105	165	6
49	Design of Ships and Marine Structures-part 1		*			30				15	45	60	105	4
50	Optional		*			30				30	60	105	165	6
a	Production Technology for Ships and Marine Structures													
b	Production Equipment in Shipbuilding and Shiprepair													
51	Optional	*				30				30	60	75	135	5
a	Architecture of Ships and Marine Structures													
b	Technology and organization of maritime transport													
c	Technology and Organization of Port Activities													
d	Fleet and Ports Operation													
52	English – part 6				*		15				15	45	60	2
7 semester total:		3	2	1	1	150	15	30	0	135	330	525	855	31

№	Name of the discipline	Forms of assessment				Auditorium workload					Extracurricular activities	Student total workload	Credits	
		Examination	Continuous Assessment	Course project	Pass / Failed	Lectures	Seminars			Total hours				
							Seminar classes	Course project	Course work					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
53	Design of Ships and Marine Structures - part 2	*				30				30	60	105	165	6
54	Design of Ships and Marine Structures - project			*				30			30	30	60	2
55	Optional	*				30			15	15	60	105	165	6
a	Shiprepair production technology													
b	Fundamentals of shiprepair activities													
56	Optional	*				30				30	60	105	165	6
a	Automated Systems for Design of Ships and Marine Structures													
b	System Analysis for Design of the Ships and Marine Structures													
57	English – part 7	*					30				30	30	60	2
8 semester total:		4	0	1	0	90	30	30	15	75	240	375	615	22

Totally for the whole course of education:	27	14	3	13	1050	225	90	60	825	2250	4340	6590	237
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	Optional subjects												
1	Introduction to Marine English – part 1			1		60				60	60	120	4
2	Introduction to Marine English – part 2			2		60				60	60	120	4
3	Business Communications and public relations			6	30	15				45	45	90	3
4	Entrepreneurship and industrial property			7	30	15				45	45	90	3

Graduation Forms	Semester	Extracurricular activities	Credits
Final project - Diploma Thesis / Preparation for State Exam	8	300	10
Diploma Thesis Defense / State Exam			

Accepted on Academic Council:

19.07.2016

Valid from 2016/2017 Academic Year

3/6/2017

Varna

Head Department:

/Assoc. Prof. I. Kostova/

Dean:

/Assoc. Prof. I. Hadzhidimov/