To consider in the	Index	Name	Box/part	Examination	Credit	Graded test	Term project	Course work	Review work	Calculated graphic work	Expert	Fact	Expert	According to plan	Auditorium hours	AUD.	Solo	Review work	1st semester	2nd semester	3rd semester	4th semester	5th semester	6th semester	7th semester	8th semester	Code	Name
Box 1.Discipline (modules)																												
Mandatory part																												
+	B1.O.01	**Socio-humanitarian module**	**B1.O**	135							11	11	396	396	146.4	90	132	117.6	4		4		3					
+	B1.O.01.01	History	B1.O		1						4	4	144	144	48.8	30	53	42.2	4								71	History
+	B1.O.01.02	Philosophy	B1.O		3						4	4	144	144	48.8	30	53	42.2				4					72	Philosophy and cultural studies
+	B1.O.01.03	Economics	B1.O		5						3	3	108	108	48.8	30	26	33.2					3				64	Economic theory
+	B1.O.02	**"Fundamentals of business communication"**	**B1.O**		13	24					8	8	288	288	186.4	176	101.6		2	2	2	2						
+	B1.O.02.01	Foreign language	B1.O		13	24					8	8	288	288	186.4	176	101.6		2	2	2	2					73	Foreign languages
+	B1.O.03	**Module "Physical culture and sport"**	**B1.O**		16						2	2	72	72	32.6	32	39.4		1						1			
+	B1.O.03.01	Basics of physical culture	B1.O		1						1	1	36	36	16.3	16	19.7		1								74	Physical culture
+	B1.O.03.02	Physical self-improvement	B1.O		6						1	1	36	36	16.3	16	19.7								1		74	Physical culture
+	B1.O.04	**Physical and mathematical module**	**B1.O**	223	12	12				122223	22	22	792	792	322.8	284	342.2	126.6	4	14	4							
+	B1.O.04.01	Mathematical analysis	B1.O	2	1					22	7	7	252	252	125.4	104	84.4	42.2	2	5							81	Calculus
+	B1.O.04.02	Analytical geometry	B1.O			1				1	2	2	72	72	24.6	22	47.4		2								81	Calculus
+	B1.O.04.03	Linear algebra and matrix theory	B1.O			2				2	2	2	72	72	24.6	22	47.4			2							81	Calculus
+	B1.O.04.04	Integrals and differential equations	B1.O	2							4	4	144	144	50.8	46	51	42.2		4							81	Calculus
+	B1.O.04.05	Physics	B1.O	3	2					23	7	7	252	252	97.4	90	112.4	42.2		3	4						83	Physics
+	B1.O.05	**Module "Safe conditions of vital activities"**	**B1.O**	7							4	4	144	144	64.8	60	37	42.2							4			
+	B1.O.05.01	Life safety	B1.O	7							4	4	144	144	64.8	60	37	42.2							4		23	Life safety
+	B1.O.06	**General professional module**	**B1.O**	12	1	34				12	16	16	576	576	287.4	268	213.2	75.4	7	3	3	3						
+	B1.O.06.01	Informatics	B1.O		1						5	5	180	180	78.8	74	59	42.2	5								53	Control systems and computer systems
+	B1.O.06.02	Engineering graphics	B1.O	2	1					12	5	5	180	180	83.4	74	63.4	33.2	2	3							35	Engineering graphics
+	B1.O.06.03	Electrical engineering	B1.O			3					3	3	108	108	62.6	60	45.4				3						45	Electrical equipment of ships and electric power industry
+	B1.O.06.04	Electronics	B1.O			4					3	3	108	108	62.6	60	45.4					3					53	Control systems and computer systems
+	B1.O.07	**Professional module**	**B1.O**	244556	13		5	245			32	32	1152	1152	477	406	457.8	217.2	3	4	3	7	10	5				
+	B1.O.07.01	Programming	B1.O	2	1			2			7	7	252	252	116.4	106	93.4	42.2	3	4							53	Control systems and computer systems
+	B1.O.07.02	Computer engineering	B1.O	4	3			4			6	6	216	216	84.4	74	98.4	33.2			3	3					53	Control systems and computer systems
+	B1.O.07.03	Operating system	B1.O	4							4	4	144	144	62.8	46	48	33.2				4					53	Control systems and computer systems
+	B1.O.07.04	Data bases	B1.O	5				5			5	5	180	180	67.8	60	70	42.2					5				53	Control systems and computer systems
+	B1.O.07.05	Networks and telecommunications	B1.O	5			5				5	5	180	180	68.8	60	78	33.2					5				53	Control systems and computer systems
+	B1.O.07.06	Information protection	B1.O	6							5	5	180	180	76.8	60	70	33.2						5			53	Control systems and computer systems
											95	95	3420	3420	1517.4	1316	1323.6	579	21	23	16	12	13	6	4			
The part formed by the participants of educational relations																												
+	B1.V.01	**Social and humanitarian module (B)**	**B1.V**	22278	1						12	12	432	432	211.6	184	220.4		2	6					2	2		
+	B1.V.01.01	Jurisprudence and law	B1.V		2						2	2	72	72	32.6	30	39.4			2							75	Social sciences, pedagogy and law
+	B1.V.01.02	Economics and management of enterprise	B1.V		7						2	2	72	72	44.6	30	27.4								2		61	Production management
+	B1.V.01.03	Economics and management of Informatization of enterprises	B1.V		8						2	2	72	72	36.6	34	35.4									2	53	Control systems and computer systems
+	B1.V.01.04	**Basics of socio-cultural communication**	**B1.V**		22	1					6	6	216	216	97.8	90	118.2		2	4								
+	B1.V.01.04.01	Sociology	B1.V			1					2	2	72	72	32.6	30	39.4		2								75	Social sciences, pedagogy and law
+	B1.V.01.04.02	Cultural studies and intercultural communication	B1.V		2						2	2	72	72	32.6	30	39.4			2							72	Philosophy and cultural studies
+	B1.V.01.04.03	Psychology of communication	B1.V		2						2	2	72	72	32.6	30	39.4			2							75	Social sciences, pedagogy and law
+	B1.V.02	**Module "Fundamentals of business communication"**	**B1.V**		1						2	2	72	72	32.6	30	39.4		2									
+	B1.V.02.01	Russian language and culture of speech	B1.V		1						2	2	72	72	32.6	30	39.4		2								76	Russian language
+	B1.V.03	**Physical and mathematical module (B)**	**B1.V**	33		44		3	3		14	14	504	504	225.8	182	211.8	66.4			7	7						
+	B1.V.03.01	Probability theory and mathematical statistics	B1.V	3					3		3	3	108	108	48.8	30	26	33.2			3						81	Calculus
+	B1.V.03.02	Discrete mathematics	B1.V	3				3			4	4	144	144	67.8	60		33.2			4						53	Control systems and computer systems
+	B1.V.03.03	Mathematical and simulation modeling	B1.V			4					4	4	144	144	48.6	46	95.4					4					53	Control systems and computer systems
+	B1.V.03.04	Research methods	B1.V			4					3	3	108	108	60.6	46	47.4					3					53	Control systems and computer systems
+	B1.V.04	**Module "Safe conditions of vital activities"(B)**	**B1.V**	5							2	2	72	72	46.6	30	25.4							2				
+	B1.V.04.01	Ecology and environmental management	B1.V	5							2	2	72	72	46.6	30	25.4							2			11	Ichthyology and ecology
+	B1.V.05	**General professional module (In)**	**B1.V**	14466	356			4			25	25	900	900	390.8	344	325.2	184	3		2	8	3	9				
+	B1.V.01.05.01	Introduction into a profession	B1.V		1						3	3	108	108	46.8	30	28	33.2	3								53	Control systems and computer systems
+	B1.V.05.02	Mathematical logic and theory of algorithms	B1.V	4							4	4	144	144	64.8	60	46	33.2				4					53	Control systems and computer systems
+	B1.V.05.03	High-level programming technologies	B1.V	4	3			4			6	6	216	216	84.4	74	89.4	42.2			2	4					53	Control systems and computer systems
+	B1.V.05.04.	Circuit technique	B1.V	6	5						6	6	216	216	97.4	90	85.4	33.2					3	3			53	Control systems and computer systems
+	B1.V.05.05	Metrology, standardization and certification	B1.V	6							4	4	144	144	64.8	60	37	42.2						4			51	Automation of productions
+	B1.V.05.06	Project management	B1.V		6						2	2	72	72	32.6	30	39.4							2			63	Economics of agriculture and fishery
+	B1.V.06	**General professional module (B)**	**B1.V**	56677	5		6	5677			27	27	972	972	422.6	330	374.4	175					7	11	9			
+	B1.V.01.06.01	Theoretical basis of automated control	B1.V		5						3	3	108	108	46.6	30	61.4						3				53	Control systems and computer systems
+	B1.V.06.02	Software engineering	B1.V	6				6			5	5	180	180	79.8	60	67	33.2						5			53	Control systems and computer systems
+	B1.V.06.03	Theory of systems and system analysis	B1.V	5				5			4	4	144	144	65.8	46	45	33.2					4				53	Control systems and computer systems
+	B1.V.06.04	The architecture of the information processing system	B1.V	6			6				6	6	216	216	82.8	74	100	33.2						6			53	Control systems and computer systems
+	B1.V.06.05	Network information technologies	B1.V	7				7			5	5	180	180	79.8	60	58	42.2							5		53	Control systems and computer systems
+	B1.V.06.06	Modeling of systems	B1.V	7				7			4	4	144	144	67.8	60	43	33.2							4		53	Control systems and computer systems
+	B1.OD.01	**Optional disciplines B1.OD.1**	**B1.V**		2						2	2	72	72	32.6	30	39.4				2							
+	B1.OD.01.01	Development of fishery complex in Russia	B1.V		2						2	2	72	72	32.6	30	39.4				2						71	History
-	B1.OD.01.02	Development of the regional fishery complex	B1.V		2						2	2	72	72	32.6	30	39.4				2						71	History
+	B1.OD.02.	**Optional disciplines B1.OD.2**	**B1.V**		7						2	2	72	72	32.6	30	39.4								2			
+	B1.OD.02.01	Intellectual property in professional activity	B1.V		7						2	2	72	72	32.6	30	39.4								2		75	Social sciences, pedagogy and law
-	B1.OD.02.02.	Legal regulation of labor relations in the professional sphere	B1.V		7						2	2	72	72	32.6	30	39.4								2		75	Social sciences, pedagogy and law
+	B1.OD.03.	**Optional disciplines B1.OD.3**	**B1.V**		5						3	3	108	108	46.6	44	61.4							3				
+	B1.OD.03.01	Operation research	B1.V		5						3	3	108	108	46.6	44	61.4							3			53	Control systems and computer systems
-	B1.OD.03.02	Optimization method	B1.V		5						3	3	108	108	46.6	44	61.4							3			53	Control systems and computer systems
+	B1.OD.04.	**Elective modules**	**B1.V**	888	77778		8	8			26	26	936	936	404.4	324	432	99.6							10	16		
+	B1.OD.04.01	**Optional module 1. The development of the information processing system**	**B1.V**	888	77778		8	8			26	26	936	936	404.4	324	432	99.6							10	16		
+	B1.OD.04.01	Information processing system design technology	B1.V	8	7		8				7	7	252	252	109.4	90	109.4	33.2							2	5	53	Control systems and computer systems
+	B1.OD.04.01.02	The study of systems of organizational management	B1.V	8	7			8			6	6	216	216	88.4	70	94.4	33.2							2	4	53	Control systems and computer systems
+	B1.OD.04.01.03	Human-machine interaction	B1.V		7						3	3	108	108	46.6	30	61.4								3		53	Control systems and computer systems
+	B1.OD.04.01.04	Reliability and quality of the information processing system	B1.V		7						3	3	108	108	46.6	44	61.4								3		53	Control systems and computer systems
+	B1.OD.04.01.05	Expert systems	B1.V		8						3	3	108	108	50.6	40	57.4									3	53	Control systems and computer systems
+	B1.OD.04.01.06	Real time systems	B1.V	8							4	4	144	144	62.8	50	48	33.2								4	53	Control systems and computer systems
-	B1.OD.04.02	**Optional module 2. Operation of information processing system**	**B1.V**	888	77778		8	8			26	26	936	936	404.4	324	432	99.6							10	16		
-	B1.OD.04.02.01	Technical support of information processing system	B1.V	8	7		8				7	7	252	252	109.4	90	109.4	33.2							2	5	53	Control systems and computer systems
-	B1.OD.04.02.02	Administration of information processing system	B1.V	8	7			8			6	6	216	216	88.4	70	94.4	33.2							2	4	53	Control systems and computer systems
-	B1.OD.04.02.03	Information processing system design basics	B1.V		7						3	3	108	108	46.6	30	61.4								3		53	Control systems and computer systems
-	B1.OD.04.02.04	Informational support of information processing system	B1.V		7						3	3	108	108	46.6	44	61.4								3		53	Control systems and computer systems
-	B1.OD.04.02.05	Information processing system software	B1.V		8						3	3	108	108	50.6	40	57.4									3	53	Control systems and computer systems
-	B1.OD.04.02.06	Information security system	B1.V	8							4	4	144	144	62.8	50	48	33.2								4	53	Control systems and computer systems
											115	115	4140	4140	1846.2	1528	1768.8	525	7	8	9	15	15	20	23	18		
											210	210	7560	7560	3363.6	2844	3092.4	1104	28	31	25	27	28	26	27	18		
Box 2.Practice																												
Mandatory part																												
+	B2.O.01	**Study practice**	**B2.O**			24					9	9	324	324			324				3		6					
+	B2.O.01.01(Study practice)	Introductory practice	B2.O			2					3	3	108	108			108				3						53	Control systems and computer systems
+	B2.O.01.02(Study practice)	Operational practices	B2.O			4					6	6	216	216			216						6					

To consider in the plan	Index	Name	Box/part	Form of control							number of credits		Total number of acad.hours						1st semester	2nd semester	3rd semester	4th semester	5th semester	6th semester	7th semester	8th semester	Responsible academic department	
				Examination	Credit	Graded test	Term project	Course work	Review work	Calculated graphic work	Expert	Fact	Expert	According to plan	Auditorium hours	AUD.	Solo work	Rewiew work	number of credits	number of credits	number of credits	number of credits	number of credits	number of credits	number of credits	number of credits	Code	Name
+	B2.O. 02	**Industrial placement**	**B2.O**		**8**	**6**					9	**9**	**324**	**324**	**324**									6		3		
+	B2.O. 02.01(Industrial)	Technology (engineering and technology) practice	B2.O			6					6	6	216	216	216									6			53	Control systems and computer systems
+	B2.O2.02(Scientific research-SR)	Research work	B2.O		8						3	3	108	108	108											3	53	Control systems and computer systems
											18	18	648	648	648					3		6		6		3		

The part formed by the participants of educational relations

To consider in the plan	Index	Name	Box/part	Examination	Credit	Graded test	Term project	Course work	Review work	Calculated graphic work	Expert	Fact	Expert	According to plan	Auditorium hours	AUD.	Solo work	Rewiew work	1st	2nd	3rd	4th	5th	6th	7th	8th	Code	Name
+	B2.V. 01	**Industrial placement**	**B2.V**			**8**					3	**3**	**108**	**108**	**108**											3		
+	B2.B. 01.01(Externship)	Externship	B2.V			8					3	3	108	108	108											3	53	Control systems and computer systems
											3	3	108	108	108											3		
											21	21	756	756	756					3		6		6		6		

Box 3.State final attestation

To consider in the plan	Index	Name	Box/part	Examination	Credit	Graded test	Term project	Course work	Review work	Calculated graphic work	Expert	Fact	Expert	According to plan	Auditorium hours	AUD.	Solo work	Rewiew work	1st	2nd	3rd	4th	5th	6th	7th	8th	Code	Name
+	B3.01	Writting and defence of final qualifying project (thesis)	B3								9	9	324	324				324									9	53	Control systems and computer systems
											9	9	324	324				324									9		
											9	9	324	324				324									9		

Optional courses (OC)

To consider in the plan	Index	Name	Box/part	Examination	Credit	Graded test	Term project	Course work	Review work	Calculated graphic work	Expert	Fact	Expert	According to plan	Auditorium hours	AUD.	Solo work	Rewiew work	1st	2nd	3rd	4th	5th	6th	7th	8th	Code	Name
+	OC.01	Information and bibliographic culture	OC		2						2	2	72	72	16.6	16	55.4				2								
+	OC.02	Research seminar	OC		6						2	2	72	72	30.6	30	41.4							2					
											4	4	144	144	47.2	46	96.8				2			2					
											4	4	144	144	47.2	46	96.8				2			2					

Elective disciplines (modules) on physical culture and sport (ED on Ph C and S)

To consider in the plan	Index	Name	Box/part	Examination	Credit	Graded test	Term project	Course work	Review work	Calculated graphic work	Expert	Fact	Expert	According to plan	Auditorium hours	AUD.	Solo work	Rewiew work	1st	2nd	3rd	4th	5th	6th	7th	8th	Code	Name
+	ED on Ph C and S..01	**Module "Physical culture and sport" (V)**	OC on Ph C and S.	123456									330	330	330	330												
+	ED on Ph C and S..01.01	Practical training in physical culture and sports (elective courses)	OC on Ph C and S.	123456									330	330	330	330											74	Physical culture
													330	330	330	330												
													330	330	330	330												