-	-	-	Form of control							number of credits		Total number of acad.hours						1st year		2nd Year		3rd Year		4th Year		5th Year			Responsible academic department	
To consider in the plan	Index	Name	Examination	Credit	Graded test	Term project	Course work	Review work	Calculated graphic work	Expert	Fact	Expert	According to plan	Auditorium hours	AUD.	Solo work	Reviewe work	1st semester number of credits	2nd semester number of credits	3rd semester number of credits	4th semester number of credits	5th semester number of credits	6th semester number of credits	7th semester number of credits	8th semester number of credits	9th semester number of credits	Semestr nr.A number of credits	Code	Name
Box 1.Discipline (modules)																													
Mandatory part																													
+	B1.O. 01	**Socio-humanitarian module**	**16**	**114**	**23**			**11123 46**		18	**18**	**648**	**648**	**54**	**54**	**530.75**	**30.8**	8	2	3	2		3						
+	B1.O.01.01	History	1					1		4	4	144	144	10	10	122.25	6.4	4										71	History
+	B1.O.01.02	**Social cooperation in the industry**		**11**	**2**			**112**		6	**6**	**216**	**216**	**20**	**20**	**175.75**	**10.8**	4	2										
+	B1.O.01.02.01	Cultural studies and intercultural communication		1				1		2	2	72	72	6	6	59.25	3.6	2										72	Philosophy and cultural studies
+	B1.O.01.02.02	Sociology			2			2		2	2	72	72	8	8	57.25	3.6		2									75	Social sciences, pedagogy and law
+	B1.O.01.02.03	Psychology of communication		1				1		2	2	72	72	6	6	59.25	3.6	2										75	Social sciences, pedagogy and law
+	B1.O.01.03	Philosophy			3			3		3	3	108	108	8	8	89.25	3.6			3								72	Philosophy and cultural studies
+	B1.O.01.04	Industry economics	6					6		3	3	108	108	10	10	86.25	6.4						3					64	Economic theory
+	B1.O.01.05	Statutory regulation in building. Corruption risks		4				4		2	2	72	72	6	6	57.25	3.6				2							75	Social sciences, pedagogy and law
+	B1.O.02	**Module "Physical culture and sport"**		**16**				**16**		2	**2**	**72**	**72**	**4**	**4**	**58.5**	**7.2**	1					1						
+	B1.O.02.01	Basics of physical culture		1				1		1	1	36	36	2	2	29.25	3.6	1										74	Physical culture
+	B1.O.02.02	Physical self-improvement		6				6		1	1	36	36	2	2	29.25	3.6						1					74	Physical culture
+	B1.O.03	**Mathematical and natural science module**	**112333**	**1224**				**11222 23334**		35	**35**	**1260**	**1260**	**112**	**112**	**1038.5**	**52.8**	10	11	11	3								
+	B1.O.03.01	Chemical hydrology and Microbiology	1					1		4	4	144	144	14	14	118.25	6.4	4										84	Chemistry
+	B1.O.03.02	**Mathematics**	**123**	**1**				**1223**		14	**14**	**504**	**504**	**48**	**48**	**414**	**22.8**	6	5	3									
+	B1.O.03.02.01	Algebra and geometry	1					1		4	4	144	144	14	14	118.25	6.4	4										81	Calculus
+	B1.O.03.02.02	Mathematical analysis	2	1				22		7	7	252	252	24	24	209.5	10	2	5									81	Calculus
+	B1.O.03.02.03	Probability theory and mathematical statistics	3					3		3	3	108	108	10	10	86.25	6.4			3								81	Calculus
+	B1.O.03.03	Physics	3	2				23		8	8	288	288	20	20	241.5	10		3	5								83	Physics
+	B1.O.03.04	Information technology	3	2				23		6	6	216	216	18	18	175.5	10		3	3								82	Computer science and information technology
+	B1.O.03.05	Mathematical modeling		4				4		3	3	108	108	12	12	89.25	3.6				3							82	Computer science and information technology
+	B1.O.04	**Module "Business communication"**		**123**	**24**			**224**		10	**10**	**360**	**360**	**56**	**56**	**263.75**	**18**	2	4	2	2								
+	B1.O.04.01	Russian language and culture of speech		2				2		2	2	72	72	6	6	59.25	3.6		2									76	Russian language
+	B1.O.04.02	Foreign language		13	24			24		8	8	288	288	50	50	204.5	14.4	2	2	2	2							73	Foreign languages
+	B1.O.05	**Module "Safe conditions of vital activities"**		**4**	**5**			**45**		4	**4**	**144**	**144**	**22**	**22**	**108.5**	**7.2**				2	2							
+	B1.O.05.01	Engineering ecology		4				4		2	2	72	72	8	8	57.25	3.6				2							11	Ichthyology and ecology
+	B1.O.05.02	Life safety			5			5		2	2	72	72	14	14	51.25	3.6					2						23	Life safety
+	B1.O.06	**Engineering and technical module**	**2244**	**11223 3456**				**12223 56**	**12344**	30	**30**	**1080**	**1080**	**120**	**120**	**840.75**	**58**	4	10	4	8	2	2						
+	B1.O.06.01	Engineering and computer graphics	2	1					12	5	5	180	180	20	20	139	10	2	3									35	Engineering graphics
+	B1.O.06.02	Engineering geodesy	2	1				12		5	5	180	180	18	18	143.5	10	2	3									91	Industrial and civil construction
+	B1.O.06.03	Engineering geology		2				2		2	2	72	72	8	8	57.25	3.6		2									91	Industrial and civil construction
+	B1.O.06.04	Hydraulics of water supply and sanitation/drainage systems		2				2		2	2	72	72	10	10	55.25	3.6		2									93	Water resources and water use
+	B1.O.06.05	Theoretical mechanics		3				3		2	2	72	72	8	8	57.25	3.6			2								34	Theory of mechanisms and machines, machine parts
+	B1.O.06.06	Structural performance of materials	4	3					34	5	5	180	180	22	22	139	10			2	3							91	Industrial and civil construction
+	B1.O.06.07	Basics of technical mechanics		4					4	2	2	72	72	10	10	53	3.6				2							34	Theory of mechanisms and machines, machine parts
+	B1.O.06.08	Electrical engineering and electronics	4						4	3	3	108	108	10	10	82	6.4				3							45	Electrical equipment of ships and electric power industry
+	B1.06.09	Metrology, standardization, certification and quality management		5				5		2	2	72	72	6	6	59.25	3.6					2						91	Industrial and civil construction
+	B1.O.06.10	Basics of geotechnics		6				6		2	2	72	72	8	8	55.25	3.6						2					91	Industrial and civil construction
+	B1.O.07	**General professional module**	**3455**	**4479**	**3**	**5**	**344**	**579**	**4**	30	**30**	**1080**	**1080**	**102**	**102**	**873.75**	**43.6**			7	10	8		2		3			
+	B1.O.07.01	Building materials	3							4	4	144	144	10	10	119	6.4			4								91	Industrial and civil construction
+	B1.O.07.02	Basics of architecture			3		3			3	3	108	108	12	12	84	3.6			3								91	Industrial and civil construction
+	B1.O.07.03	Fundamentals of building structures		4					4	4	4	144	144	18	18	115	3.6				4							91	Industrial and civil construction
+	B1.O.07.04	Basics of heat and gas supply and ventilation	4				4			3	3	108	108	8	8	85	6.4				3							92	Heat and gas supply and ventilation
+	B1.O.07.05	Basics of water supply and sanitation/drainage		4			4			3	3	108	108	6	6	94	3.6				3							92	Heat and gas supply and ventilation
+	B1.O.07.06	Technological processes in construction	5			5				4	4	144	144	16	16	112	6.4					4						91	Industrial and civil construction
+	B1.O.07.07	Means of mechanization in construction	5					5		4	4	144	144	14	14	116.25	6.4					4						91	Industrial and civil construction
+	B1.O.07.08	Organization, planning and construction management		9				9		3	3	108	108	8	8	93.25	3.6									3		92	Heat and gas supply and ventilation
+	B1.O.07.09	Basics of technical maintenance of buildings and structures		7				7		2	2	72	72	10	10	55.25	3.6							2				92	Heat and gas supply and ventilation
+	B1.O.08	**Professional module**	**56677 788**	**55667 7**	**6**	**77788**	**66**	**55667 7**	**6**	56	**56**	**2016**	**2016**	**194**	**194**	**1643.5**	**76.4**					10	17	18	11				
+	B1.O.08.01	Hydrology and waterwork engineering installations	5					5		5	5	180	180	12	12	154.25	6.4					5						44	Marine power plants and heat power engineering
+	B1.O.08.02	Water supply. Water supply networks	6	5			6	5		5	5	180	180	18	18	140.25	10					2	3					44	Marine power plants and heat power engineering
+	B1.O.08.03	Pumping and blower stations	6	5			6			7	7	252	252	16	16	215	10					3	4					92	Heat and gas supply and ventilation
+	B1.O.08.04	Water supply. Water intake facilities and natural water purification			6				6	5	5	180	180	8	8	163	3.6						5					92	Heat and gas supply and ventilation
+	B1.O.08.05	Sanitary-technical equipment of buildings	7	6		7		6		6	6	216	216	24	24	169.25	10						2	4				92	Heat and gas supply and ventilation
+	B1.O.08.06	Heat supply	7	6		7		6		7	7	252	252	32	32	193.25	10						3	4				92	Heat and gas supply and ventilation
+	B1.O.08.07	Sanitation (Drainage). Sanitation/Drainage networks	7			7				6	6	216	216	24	24	176	6.4							6				92	Heat and gas supply and ventilation
+	B1.O.08.08	Air conditioning	8	7		8		7		6	6	216	216	22	22	169.25	10							2	4			92	Heat and gas supply and ventilation
+	B1.O.08.09	Gas supply	8			8				7	7	252	252	24	24	212	6.4								7			92	Heat and gas supply and ventilation
+	B1.O.08.10	Automated design of water supply and sanitation/drainage systems		7				7		2	2	72	72	14	14	51.25	3.6							2				92	Heat and gas supply and ventilation
										185	*185*	*6660*	*6660*	*664*	*664*	*5358*	*294*	*25*	*27*	*27*	*27*	*22*	*23*	*20*	*11*	*3*			
The part formed by the participants of educational relations																													
+	B1.V. 01	Introduction into a profession			1			1		3	3	108	108	8	8	89.25	3.6	3										92	Heat and gas supply and ventilation
+	B1.V.02	Engineering surveys for construction		6					6	2	2	72	72	6	6	59	3.6						2					93	Water resources and water use
+	B1.V.03	QCT of water supply and sanitation/drainage systems		8						2	2	72	72	8	8	58	3.6								2			92	Heat and gas supply and ventilation
+	B1.V. 04	Research methods	6					6		3	3	108	108	12	12	82.25	6.4						3					92	Heat and gas supply and ventilation
+	B1.V.05	Operation of water supply and sanitation/drainage systems			7			7		3	3	108	108	12	12	87.25	3.6							3				92	Heat and gas supply and ventilation
+	B1.OD.01	**Optional disciplines B1.OD.1**		**5**				**5**		2	**2**	**72**	**72**	**6**	**6**	**59.25**	**3.6**					2							
+	B1.OD.01.01	Regulatory documents for design of buildings and engineering structures		5				5		2	2	72	72	6	6	59.25	3.6					2						92	Heat and gas supply and ventilation
-	B1.OD.01.02	Preparing documentation and documentation flow in construction		5				5		2	2	72	72	6	6	59.25	3.6					2						92	Heat and gas supply and ventilation
+	B1.OD.02.	**Optional disciplines B1.OD.02**			**9**			**9**		3	**3**	**108**	**108**	**10**	**10**	**89.25**	**3.6**									3			
+	B1.OD.02.01	Economics of water supply and sanitation/drainage systems			9			9		3	3	108	108	10	10	89.25	3.6									3		92	Heat and gas supply and ventilation
-	B1.OD.02.02.	Pricing and budgeting in construction			9			9		3	3	108	108	10	10	89.25	3.6									3		92	Heat and gas supply and ventilation
+	B1.OD.03.	**Optional disciplines B1.OD.3**		**8**			**8**			3	**3**	**108**	**108**	**12**	**12**	**86**	**3.6**								3				
+	B1.OD.03.01	Air pool security		8			8			3	3	108	108	12	12	86	3.6								3			92	Heat and gas supply and ventilation
-	B1.OD.03.02	Energy and resource conservation in water supply and sanitation/drainage systems		8			8			3	3	108	108	12	12	86	3.6								3			92	Heat and gas supply and ventilation
+	B1.OD.04	**Optional disciplines B1.OD.4**	**8**					**8**		4	**4**	**144**	**144**	**16**	**16**	**114.25**	**6.4**								4				
+	B1.OD.04.01	Automation of water supply and sanitation/drainage systems	8					8		4	4	144	144	16	16	114.25	6.4								4			92	Heat and gas supply and ventilation
-	B1.OD.04.02	Mechanization and automation of production of water supply and sanitation/drainage systems	8					8		4	4	144	144	16	16	114.25	6.4								4			92	Heat and gas supply and ventilation
										25	*25*	*900*	*900*	*90*	*90*	*724.5*	*38*	*3*				*2*	*5*	*3*	*9*	*3*			
										210	*210*	*7560*	*7560*	*754*	*754*	*6082.5*	*332*	*28*	*27*	*27*	*27*	*24*	*28*	*23*	*20*	*6*			
Box 2.Practice																													
Mandatory part																													
+	B2.O. 01	**Study practice**			**4**					6	**6**	**216**	**216**								6								
+	B2.O.01.01(Study practice)	Introductory practice			4					6	6	216	216								6							91	Industrial and civil construction
+	B2.O. 02	**Industrial placement**			**89**					18	**18**	**648**	**648**												12	6			

+	B2.O.02.01(Industrial)	Technological practice			8					12	12	432	432											12			92	Heat and gas supply and ventilation
+	B2.O.02.02(Externship)	Externship			9					6	6	216	216												6		92	Heat and gas supply and ventilation
										24	*24*	*864*	*864*								*6*			*12*	*6*			
										24	*24*	*864*	*864*								*6*			*12*	*6*			
Box 3.State final attestation																												
+	B3.01	Preparation for defense procedure and thesis (final qualifying work) defense								6	6	216	216				216								6		92	Heat and gas supply and ventilation
										6	*6*	*216*	*216*				*216*								*6*			
										6	*6*	*216*	*216*				*216*								*6*			
OC.Optional courses																												
+	OC.01	Information and bibliographic culture		3						2	2	72	72	16	16	55.6				2								
+	OC.02	Research seminar		5						2	2	72	72	30	30	41.6						2						
										4	*4*	*144*	*144*	*46*	*46*	*97.2*				*2*		*2*						
										4	*4*	*144*	*144*	*46*	*46*	*97.2*				*2*		*2*						