-	-	-	-	Form of control						number of credits		Total number of acad.hours						1st year		2nd Year		3rd Year		4th Year		Responsible academic department	
																		1st semester	2nd semester	3rd semester	4th semester	5th semester	6th semester	7th semester	8th semester		
To consider in the plan	Index	Name	Box/part	Examination	Credit	Graded test	Term project	Course work	Review work	Expert	Fact	Expert	According to plan	Auditorium hours	AUD.	Solo work	Reviewe 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
Box 1.Discipline (modules)																											
Mandatory part																											
+	B1.O. 01	**Socio-humanitarian module**	**B1.O**	**136**	**112567**	**2**				25	**25**	**900**	**900**	**410.6**	**300**	**371.8**	**117.6**	8	4	4		2	5	2			
+	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	**Basics of socio-cultural communication**	**B1.O**		**11**	**2**				6	**6**	**216**	**216**	**97.8**	**90**	**118.2**		4	2								
+	B1.O.01.03.01	Cultural studies and intercultural communication	B1.O		1					2	2	72	72	32.6	30	39.4		2								72	Philosophy and cultural studies
+	B1.O.01.03.02	Psychology of communication	B1.O		1					2	2	72	72	32.6	30	39.4		2								75	Social sciences, pedagogy and law
+	B1.O.01.03.03	Sociology	B1.O			2				2	2	72	72	32.6	30	39.4			2							75	Social sciences, pedagogy and law
+	B1.O.01.04	Basics of project activities	B1.O		2					2	2	72	72	44.6	30	27.4			2							63	Production management
+	B1.O.01.05	Jurisprudence	B1.O		5					2	2	72	72	32.6	30	39.4						2				75	Social sciences, pedagogy and law
+	B1.O.01.06	Economics	B1.O	6						3	3	108	108	48.8	30	26	33.2						3			64	Economic theory
+	B1.O.01.07	Management & marketing	B1.O		6					2	2	72	72	44.6	30	27.4							2			67	Industry logistics, marketing and commerce
+	B1.O.01.08	Economics and management of aquaculture enterprises	B1.O		7					2	2	72	72	44.6	30	27.4								2		63	Economics of agriculture and fishery
+	B1.O.02	**Module "Fundamentals of business communication"**	**B1.O**		**123**	**24**				10	**10**	**360**	**360**	**219**	**206**	**141**		2	4	2	2						
+	B1.O.02.01	Russian language and culture of speech	B1.O		2					2	2	72	72	32.6	30	39.4			2							76	Russian language
+	B1.O.02.02	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	**Mathematical and natural science module**	**B1.O**	**12223**	**113**	**12**			**12**	28	**28**	**1008**	**1008**	**531**	**494**	**311**	**166**	10	13	5							
+	B1.O.04.01	Informatics	B1.O	1						3	3	108	108	48.8	44	26	33.2	3								82	Computer science and information technology
+	B1.O.04.02	Mathematics	B1.O	2		1			12	6	6	216	216	113.4	106	69.4	33.2	3	3							81	Calculus
+	B1.O.04.03	Ecology	B1.O	2	1					5	5	180	180	97.4	90	49.4	33.2	2	3							11	Ichthyology and ecology
+	B1.O.04.04	Zoology	B1.O	2	1					6	6	216	216	127.4	120	55.4	33.2	2	4							17	Ichthyopathology and Hydrobiology
+	B1.O.04.05	Organic and biological chemistry	B1.O	3		2				6	6	216	216	111.4	104	71.4	33.2		3	3						84	Chemistry
+	B1.O.04.06	Theory of evolution	B1.O		3					2	2	72	72	32.6	30	39.4				2						17	Aquaculture, biology and diseases of hydrobionts
+	B1.O.05	**Module "Safe conditions of vital activities"**	**B1.O**	**6**	**3**					7	**7**	**252**	**252**	**107.4**	**90**	**111.4**	**33.2**			3			4				
+	B1.O.05.01	Efficient use of natural resources	B1.O		3					3	3	108	108	44.6	30	63.4				3						11	Ichthyology and ecology
+	B1.O.05.02	Life safety	B1.O	6						4	4	144	144	62.8	60	48	33.2						4			23	Life safety
+	B1.O.06	**General professional module**	**B1.O**	**123344566**	**134557**			**446**		53	**53**	**1908**	**1908**	**881.8**	**764**	**718.4**	**307.8**	5	3	11	14	8	9	3			
+	B1.O.06.01	Introduction into a profession	B1.O	1						3	3	108	108	46.8	30	28	33.2	3								11	Ichthyology and ecology
+	B1.O.06.02	Hydrology	B1.O	2	1					5	5	180	180	97.4	90	49.4	33.2	2	3							11	Ichthyology and ecology
+	B1.O.06.03	Fish histology and embryology	B1.O	3						4	4	144	144	48.8	44	53	42.2			4						17	Aquaculture, biology and diseases of hydrobionts
+	B1.O.06.04	Hydrobiology	B1.O	3						4	4	144	144	64.8	60	46	33.2			4						17	Aquaculture, biology and diseases of hydrobionts
+	B1.O.06.05	Ichthyology	B1.O	4	3			4		8	8	288	288	142.4	120	112.4	33.2			3	5					11	Ichthyology and ecology
+	B1.O.06.06	Microbiology	B1.O		4					3	3	108	108	48.6	46	59.4					3					17	Aquaculture, biology and diseases of hydrobionts
+	B1.O.06.07	Biological basis of fish farming	B1.O	4				4		6	6	216	216	97.8	90	85	33.2				6					17	Aquaculture, biology and diseases of hydrobionts
+	B1.O.06.08	Fish physiology	B1.O	5						4	4	144	144	64.8	60	46	33.2					4				17	Aquaculture, biology and diseases of hydrobionts
+	B1.O.06.09	Genetics and fish breeding	B1.O	6	5					5	5	180	180	67.4	60	79.4	33.2					2	3			17	Aquaculture, biology and diseases of hydrobionts
+	B1.O.06.10	Fisheries legislation	B1.O		5					2	2	72	72	46.6	30	25.4						2				11	Ichthyology and ecology
+	B1.O.06.11	Ichthyopathology	B1.O	6				6		6	6	216	216	109.8	90	73	33.2						6			17	Aquaculture, biology and diseases of hydrobionts
+	B1.O.06.12	Ichthyotoxicology	B1.O		7					3	3	108	108	46.6	44	61.4								3		17	Aquaculture, biology and diseases of hydrobionts
+	B1.O.07	**Module "Ichthyology and fish farming"**	**B1.O**	**456777**	**2356**		**57**	**67**		43	**43**	**1548**	**1548**	**711.2**	**632**	**628.6**	**208.2**		2	2	4	10	7	18			
+	B1.O.07.01	Information technologies in fisheries	B1.O		23					4	4	144	144	97.2	92	46.8			2	2						11	Ichthyology and ecology
+	B1.O.07.02	Research methods in fishery	B1.O	4						4	4	144	144	64.8	60	46	33.2				4					11	Ichthyology and ecology
+	B1.O.07.03	Water engineering in fishery	B1.O	7						4	4	144	144	64.8	60	46	33.2							4		17	Aquaculture, biology and diseases of hydrobionts
+	B1.O.07.04	Artificial reproduction of fish	B1.O	5			5			7	7	252	252	110.8	90	108	33.2					7				17	Aquaculture, biology and diseases of hydrobionts
+	B1.O.07.05	Sanitary hydrobiology	B1.O		5					3	3	108	108	48.6	46	59.4						3				17	Aquaculture, biology and diseases of hydrobionts
+	B1.O.07.06	Raw material base of the fishing industry	B1.O	6				6		4	4	144	144	51.8	44	59	33.2						4			11	Ichthyology and ecology
+	B1.O.07.07	Commercial fish farming	B1.O	7	6		7			9	9	324	324	145.4	120	145.4	33.2						3	6		17	Aquaculture, biology and diseases of hydrobionts
+	B1.O.07.08	Commercial ichthyology	B1.O	7				7		8	8	288	288	127.8	120	118	42.2							8		11	Ichthyology and ecology
										168	*168*	*6048*	*6048*	*2893.6*	*2518*	*2321.6*	*832.8*	*26*	*26*	*27*	*20*	*20*	*26*	*23*			
The part formed by the participants of educational relations																											
+	B1.V. 01	**Mathematical and natural science module (V)**	**B1.V**		**4**					2	**2**	**72**	**72**	**32.6**	**30**	**39.4**					2						
+	B1.B.01.01	Fish zoogeography	B1.V		4					2	2	72	72	32.6	30	39.4					2					11	Ichthyology and ecology
+	B1.V.02	**Module "Ichthyology and fish farming"(V)**	**B1.V**	**5**	**467**			**5**		11	**11**	**396**	**396**	**189.6**	**150**	**173.2**	**33.2**				2	4	3	2			
+	B1.V. 02.01	Commercial fishing	B1.V		4					2	2	72	72	46.6	32	25.4					2					21	Commercial fishing
+	B1.V.02.02	Analysis of fish populations	B1.V	5				5		4	4	144	144	51.8	44	59	33.2					4				11	Ichthyology and ecology
+	B1.V.02.03	Sanitary hydrotechnics	B1.V		6					3	3	108	108	44.6	30	63.4							3			17	Aquaculture, biology and diseases of hydrobionts
+	B1.V.02.04	Mariculture	B1.V		7					2	2	72	72	46.6	44	25.4								2		17	Aquaculture, biology and diseases of hydrobionts
+	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.	**Elective modules**	**B1.V**	**5788**	**88**			**8**		24	**24**	**864**	**864**	**329.4**	**280**	**392.8**	**141.8**					4		4	16		
+	B1.OD.02.01	**Optional module 1. Management of aquatic bioresources and fisheries**	**B1.V**	**5788**	**88**			**8**		24	**24**	**864**	**864**	**329.4**	**280**	**392.8**	**141.8**					4		4	16		
+	B1.OD.02.01.01	Environmental law	B1.V	7						4	4	144	144	48.8	30	53	42.2							4		11	Ichthyology and ecology
+	B1.OD.02.01.02	Environmental management in fisheries	B1.V	8				8		6	6	216	216	75.8	60	107	33.2								6	11	Ichthyology and ecology
+	B1.OD.02.01.03	Environmental and fisherly expertise	B1.V	8						4	4	144	144	54.8	50	56	33.2								4	11	Ichthyology and ecology
+	B1.OD.02.01.04	Anthropogenic impact on aquatic ecosystems	B1.V	5						4	4	144	144	64.8	60	46	33.2					4				11	Ichthyology and ecology
+	B1.OD.02.01.05	Fishery monitoring	B1.V		8					3	3	108	108	42.6	40	65.4									3	11	Ichthyology and ecology
+	B1.V. OD.02.01.06	Analysis of fishery information	B1.V		8					3	3	108	108	42.6	40	65.4									3	11	Ichthyology and ecology
-	B1.OD.02.02.	**Optional module 2. Aquaculture**	**B1.V**	**6788**	**88**			**8**		24	**24**	**864**	**864**	**331.4**	**296**	**390.8**	**141.8**						4	4	16		
-	B1.OD.02.02.01	Fish ethology	B1.V	7						4	4	144	144	50.8	46	51	42.2							4		17	Aquaculture, biology and diseases of hydrobionts
-	B1.OD.02.02.02	Basics of industrial aquaculture	B1.V	8				8		6	6	216	216	75.8	60	107	33.2								6	17	Aquaculture, biology and diseases of hydrobionts
-	B1.OD.02.02.03	Special methods of fish rearing	B1.V	8						4	4	144	144	54.8	50	56	33.2								4	17	Aquaculture, biology and diseases of hydrobionts
-	B1.OD.02.02.04	The basic technologies of hydrobionts (aquatic organisms) processing	B1.V	6						4	4	144	144	64.8	60	46	33.2						4			31	Aquaculture, biology and diseases of hydrobionts
-	B1.OD.02.02.05	Feed and feeding in aquaculture	B1.V		8					3	3	108	108	42.6	40	65.4									3	17	Aquaculture, biology and diseases of hydrobionts
-	B1.OD.02.02.06	Lake fish farming	B1.V		8					3	3	108	108	42.6	40	65.4									3	17	Aquaculture, biology and diseases of hydrobionts
-	B1.OD.02.03	**Optional module 3. Ichthyopathology**	**B1.V**	**6788**	**88**			**8**		24	**24**	**864**	**864**	**329.4**	**280**	**392.8**	**141.8**						4	4	16		
-	B1.OD.02.03.01	General pathology of aquatic organisms	B1.V	6						4	4	144	144	48.8	30	53	42.2						4			17	Aquaculture, biology and diseases of hydrobionts
-	B1.OD.02.03.02	Veterinary and sanitary examination	B1.V	8				8		6	6	216	216	75.8	60	107	33.2								6	17	Aquaculture, biology and diseases of hydrobionts
-	B1.OD.02.03.03	Veterinary legislation	B1.V	8						4	4	144	144	54.8	50	56	33.2								4	17	Aquaculture, biology and diseases of hydrobionts

-	-	-	-	Form of control						number of credits		Total number of acad.hours						1st year		2nd Year		3rd Year		4th Year		Responsible academic department	
																		1st semester	2nd semester	3rd semester	4th semester	5th semester	6th semester	7th semester	8th semester		
To consider in the plan	Index	Name	Box/part	Examination	Credit	Graded test	Term project	Course work	Review 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
-	B1.OD.02.03.04	Diseases of fish in industrial fish farms	B1.V	7						4	4	144	144	64.8	60	46	33.2							4		17	Aquaculture, biology and diseases of hydrobionts
-	B1.OD.02.03.05	Diseases of commercial invertebrates	B1.V		8					3	3	108	108	42.6	40	65.4									3	17	Aquaculture, biology and diseases of hydrobionts
-	B1.OD.02.03.06	Diseases of sea fish	B1.V		8					3	3	108	108	42.6	40	65.4									3	17	Aquaculture, biology and diseases of hydrobionts
										39	*39*	*1404*	*1404*	*584.2*	*490*	*644.8*	*175*		*2*		*4*	*8*	*3*	*6*	*16*		
										207	*207*	*7452*	*7452*	*3477.8*	*3008*	*2966.4*	*1007.8*	*26*	*28*	*27*	*24*	*28*	*29*	*29*	*16*		
Box 2.Practice																											
Mandatory part																											
+	B2.O. 01	**Study practice**	**B2.O**			**2224**				15	**15**	**540**	**540**	**540**					6		9						
+	B2.O.01.01	**Introductory practice**	**B2.O**			**222**				6	**6**	**216**	**216**	**216**					6								
+	B2.O. 01.01.01.01(Study Practice)	Section "Hydrology"	B2.O			2				2	2	72	72	72					2							11	Ichthyology and ecology
+	B2.O. 01.01.02(Study Practice)	Section "Zoology"	B2.O			2				2	2	72	72	72					2							17	Aquaculture, biology and diseases of hydrobionts
+	B2.O. 01.01.03(Study Practice)	Section "Hydrobiology"	B2.O			2				2	2	72	72	72					2							17	Aquaculture, biology and diseases of hydrobionts
+	B2.O. 01.02(Study practice)	Technological practice	B2.O			4				9	9	324	324	324							9					10	Faculty of bioresources and nature management
+	B2.O. 02	**Industrial placement**	**B2.O**			**68**				9	**9**	**324**	**324**	**324**									3		6		
+	B2.O. 02.01(Industrial)	Technological practice	B2.O			6				3	3	108	108	108									3			11	Ichthyology and ecology
+	B2.O.02.02(Scientific research-SR)	Research work	B2.O			8				6	6	216	216	216											6	10	Faculty of bioresources and nature management
										24	*24*	*864*	*864*	*864*					*6*		*9*		*3*		*6*		
										24	*24*	*864*	*864*	*864*					*6*		*9*		*3*		*6*		
Box 3.State final attestation																											
+	B3.01	Writting and defence of final qualifying project (thesis)	B3							9	9	324	324				324								9	10	Faculty of bioresources and nature management
										9	*9*	*324*	*324*				*324*								*9*		
										9	*9*	*324*	*324*				*324*								*9*		
Optional courses (OC)																											
+	OC.01	Research seminar	OC		5					2	2	72	72	30.6	30	41.4						2					
+	OC.02	Information and bibliographic culture	OC		3					2	2	72	72	16.6	16	55.4				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)																											
+	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*												