

Name	Form of assessment							Credits	Total academic hours					Year 1		Year 2		Year 3		Year 4		Assigned department		
	Examination	Pass/fail test	Pass/fail exam with a grade	Term project	Course work	Module test	Calculation and graphic work		Fact	As scheduled	Work with a teacher	Classroom	Self-study	Control	Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8	Code	Name
															Credits	Credits	Credits	Credits	Credits	Credits	Credits	Credits		
Unit 1. Disciplines (modules)								213	7668	3459.4	3038	3027.35	1181.25	29	28	28	29	29	25	26	19			
Core part								131	4716	2112.05	1842	1787.2	816.75	27	28	25	25	10	9	4	3			
Socio-humanitarian module		2266	1					21	756	331.5	240	305.25	119.25	6	4	4		3	4					
History (history of Russia, general history)								4	144	48.25	30	53	42.75	4								71	Department of History	
Philosophy		3						4	144	48.25	30	53	42.75			4						72	Department of Philosophy and Culturology	
Economics		5						3	108	48.25	30	26	33.75					3				54	Department of Economic theory and instrumental methods	
Law		6						2	72	32.15	30	39.85					2				73	Department of Social sciences, pedagogy and law		
Basics of sociocultural communication		22	1					6	216	110.45	90	105.55	2	4										
Social science			1					2	72	46.15	30	25.85	2								73	Department of Social sciences, pedagogy and law		
Culturology and intercultural communications		2						2	72	32.15	30	39.85		2							72	Department of Philosophy and Culturology		
Psychology of communications		2						2	72	32.15	30	39.85		2							73	Department of Social sciences, pedagogy and law		
Economy and management in an aquaculture enterprise		6						2	72	44.15	30	27.85					2				52	Department of Management		
Module "Basics of business communications"		113	24					10	360	216.75	206	143.25	4	2	2	2								
Russian language and culture of speech		1						2	72	32.15	30	39.85	2								55	Department of Russian language		
Foreign language		13	24					8	288	184.6	176	103.4	2	2	2	2					45	Department of Foreign languages		
Module "Physical education and sport"		16						2	72	32.3	32	39.7	1					1						
Basics of PE		1						1	36	16.15	16	19.85	1					1			56	Department of Physical education		
Physical self-perfection		6						1	36	16.15	16	19.85						1			56	Department of Physical education		
Physics and mathematical module		1122	334			1223		42	1512	669.8	588	518.2	324	12	15	8	7							
Mathematics		1223	1			1223		17	612	272.35	226	186.65	153	6	8	3								
Algebra and geometry		1				1		4	144	62.55	44	38.7	42.75	4								13	Department of Applied mathematics and information technologies	
Mathematical analysis		2	1			22		7	252	109	90	100.25	42.75	2	5							13	Department of Applied mathematics and information technologies	
Numerical methods		2						3	108	50.25	46	24	33.75		3							13	Department of Applied mathematics and information technologies	
Probability theory and mathematical statistics		3				3		3	108	50.55	46	23.7	33.75			3						13	Department of Applied mathematics and information technologies	
Informatics		2	1					6	216	96.4	90	76.85	42.75	2	4							13	Department of Applied mathematics and information technologies	
Chemistry		1						4	144	64.25	60	37	42.75	4								35	Department of Chemistry	
Physics		3	2					8	288	126.4	120	118.85	42.75		3	5						25	Department of Physics	
Mathematical modelling		4						3	108	48.15	46	59.85				3					13	Department of Applied mathematics and information technologies		
Methods of scientific research		4						4	144	62.25	46	39	42.75				4					11	Department of Production processes automation	
Module "Safe living environment"		5						6	216	110.4	90	62.85	42.75					2		4				
Ecology and environmental management		5						2	72	46.15	30	25.85					2				44	Department of Water bioresources and aquaculture		
Life safety		7						4	144	64.25	60	37	42.75							4		42	Department of Technosphere safety and environmental management	
General professional module		22344	4468			234	125	50	1800	751.3	686	717.95	330.75	4	7	11	16	5	4		3			
Engineering and computer graphics		2	1				12	5	180	82.4	74	63.85	33.75	2	3							32	Department of Production equipment engineering	
Material science		2	1			2		6	216	99.4	90	82.85	33.75	2	4							32	Department of Production equipment engineering	
Information technologies in professional activities			3					3	108	46.15	44	61.85				3					13	Department of Applied mathematics and information technologies		
Electrical engineering		3				3		4	144	67.25	60	43	33.75			4						22	Department of Power engineering	
Electronics		4				4		4	144	37.25	30	73	33.75				4					11	Department of Production processes automation	
Heat engineering		4						4	144	48.25	44	62	33.75				4					22	Department of Power engineering	
Technical mechanics		4	3					6	216	82.4	76	90.85	42.75				2	4				24	Department of Theory of machines and mechanisms and machine parts	
Hydraulics		5				5		3	108	49.15	46	58.85					3				42	Department of Technosphere safety and environmental management		
Computers, systems and networks		4	3					6	216	80.4	74	92.85	42.75				2	4				12	Department of Control systems and computer engineering	
Basics of engineering design		5						2	72	46.15	44	25.85					2				11	Department of Production processes automation		
Metrology, standardization and certification		6						4	144	64.25	60	37	42.75					4				11	Department of Production processes automation	
Quality control		8						3	108	48.25	44	26	33.75								3	11	Department of Production processes automation	
Part formed by the educational process participants								82	2952	1347.35	1196	1240.15	364.5	2	3	4	19	16	22	16				
General professional module (B)		5	348	1		5		13	468	223.85	184	201.4	42.75	2		3	2	4			2			
Introduction to profession				1				2	72	44.15	30	27.85	2								11	Department of Production processes automation		
Discrete mathematics			3					3	108	44.15	30	63.85			3						13	Department of Applied mathematics and information technologies		
Workshop on electronics			4					2	72	32.15	30	39.85				2					11	Department of Production processes automation		
Technical measurements and instruments			5			5		4	144	67.25	60	34	42.75					4				11	Department of Production processes automation	
Basics of scientific and pedagogical activity			8					2	72	36.15	34	35.85							2		11	Department of Production processes automation		
Professional module (B)		5667	55566			5667		41	1476	697.75	628	609.5	168.75					9	12	18	2			
Technological processes of automated production (TPAP)			5			5		3	108	37.25	30	37	33.75					3				32	Department of Production equipment engineering	
TPAP workshop			5					2	72	46.15	44	25.85					2				32	Department of Production equipment engineering		
Automatic control theory (ACT)			6	5		6		5	180	69.4	60	76.85	33.75					2	3			11	Department of Production processes automation	
Workshop on ACT				56				5	180	94.3	90	85.7					2	3			11	Department of Production processes automation		
Development of software for automation and process control systems (APCS software)			6			6		3	108	37.25	30	37	33.75					3				11	Department of Production processes automation	
Workshop on APCS software development				6				3	108	48.15	46	59.85						3			11	Department of Production processes automation		
Automation and process control systems				7				2	72	46.15	44	25.85							2		11	Department of Production processes automation		
Technical means of automation and control				7				3	108	46.15	44	61.85								3	11	Department of Production processes automation		
Microprocessor automation and control systems				7		7		5	180	83.25	76	63	33.75							5		11	Department of Production processes automation	
Diagnostics and reliability of automated systems				7				2	72	44.15	30	27.85								2	11	Department of Production processes automation		
Systems and Process Modeling (SPM)				7		7		3	108	37.25	30	37	33.75							3		11	Department of Production processes automation	
Workshop on SPM				7				3	108	62.15	60	45.85								3	11	Department of Production processes automation		
Automation of product lifecycle management				8				2	72	46.15	44	25.85								2	11	Department of Production processes automation		
Elective courses			4					2	72	32.15	30	39.85				2								
Corporate culture in professional activities			4					2	72	32.15	30	39.85				2					72	Department of Philosophy and Culturology		
Professional ethics			4					2	72	32.15	30	39.85				2					72	Department of Philosophy and Culturology		
Elective courses			7					2	72	32.15	30	39.85								2				
Intellectual property in professional activities			7					2	72	32.15	30	39.85									73	Department of Social sciences, pedagogy and law		
Legal regulation of labor relations in a professional sphere			7					2	72	32.15	30	39.85								2	73	Department of Social sciences, pedagogy and law		
Elective courses		5688	578			8		24	864	361.45	324	349.55	153				6	4	2	12				
Elective module 1. Operation of automation systems for technological processes and production		5688	578			8		24	864	361.45	324	349.55	153				6	4	2	12				
Automated electric drive			5					4	144	64.25	60	37	42.75					4				11	Department of Production processes automation	
Technological equipment and its operation			6	5				6	216	96.4	90	76.85	42.75				2	4			32	Department of Production equipment engineering		
Installation and operation of process control automation systems			8	7		8		7	252	96.4	86	121.85	33.75						2	5	11	11	Department of Production processes automation	
Adaptive and optimal control systems				8				4	144	60.25	56	50	33.75								4	11	Department of Production processes	

