

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	Credits	Credits	Credits	Credits	Credits	Credits	Credits	Code	Name						
																								Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6
<b>Unit 1.Disciplines (modules)</b>								216	4776	3378.55	2852	3231.95	1165.5	28	29	28	29	28	26	26	22								
<b>Core part</b>								120	7320	1892.2	1628	1746.05	681.75	24	27	26	20	11	8	4									
<b>Socio-humanitarian module</b>	13	11234	56	224				28	1008	488	416	434.5	85.5	8	6	6	4	2	2										
History (history of Russia, general history)	1							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					
Law		5						2	72	32.15	30	39.85						2					73	Department of Social sciences, pedagogy and law					
Basics of project activity		6						2	72	32.15	30	39.85						2					51	Department of Economics and finances					
Time-management		4						2	72	32.15	30	39.85					2						52	Department of Management					
Culturology		1						2	72	32.15	30	39.85		2										72	Department of Philosophy and Culturology				
Conflict studies			2					2	72	46.15	30	25.85			2										72	Department of Philosophy and Culturology			
Foreign language		13	24					8	288	184.6	176	103.4		2	2	2	2								45	Department of Foreign languages			
Basics of business communication		2						2	72	32.15	30	39.85			2										55	Department of Russian language			
<b>Module "Physical education and sport"</b>	16							2	72	32.3	32	39.7		1					1										
Basics of PE		1						1	36	16.15	16	19.85		1												56	Department of Physical education		
Physical self-perfection		6						1	36	16.15	16	19.85						1								56	Department of Physical education		
<b>Mathematics and natural scientific module</b>	112223	113					11122	33	1188	567.75	494	381.75	238.5	13	14	6													
<b>Higher mathematics</b>	123	1					1223	14	504	251.8	210	132.95	119.25	6	5	3													
Algebra and geometry	1					1		4	144	62.25	44	39	42.75	4												13	Department of Applied mathematics and information technologies		
Mathematical analysis	2	1				22		7	252	139	120	70.25	42.75	2	5											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							4	144	78.25	60	32	33.75		4											13	Department of Applied mathematics and information technologies		
Physics	2	1				12		8	288	127	120	118.25	42.75	3	5											25	Department of Physics		
Chemistry	1					1		4	144	64.55	60	36.7	42.75	4												35	Department of Chemistry		
Information technologies in professional activities		3						3	108	46.15	44	61.85				3										13	Department of Applied mathematics and information technologies		
<b>Module "Safe living environment"</b>	7							4	144	62.25	44	48	33.75													4			
Life safety	7							4	144	62.25	44	48	33.75														42	Department of Technosphere safety and environmental management	
<b>Engineering and technical module</b>	23346	12	5	4	3		12	32	1152	438.7	376	517.55	195.75	2	7	9	5	4	5										
Engineering and computer graphics	2	1					12	6	216	82.4	60	90.85	42.75	2	4												32	Department of Production equipment engineering	
Material science, structural materials technology	3	2			3			8	288	99.4	90	145.85	42.75		3	5											32	Department of Production equipment engineering	
Theoretical mechanics	3							4	144	64.25	60	46	33.75			4											24	Department of Theory of machines and mechanisms and machine parts	
Applied mechanics	4				4			5	180	66.25	46	71	42.75				5										24	Department of Theory of machines and mechanisms and machine parts	
Electrical engineering and electricity supply			5					4	144	62.15	60	81.85						4									22	Department of Power engineering	
Metrology,thermotechnical measurements and automation	6							5	180	64.25	60	82	33.75						5								32	Department of Production equipment engineering	
<b>General technical module</b>	445	334				45		21	756	303.2	266	324.55	128.25			5	11	5											
Fluid dynamics	4	3						6	216	78.4	60	94.85	42.75		2	4											22	Department of Power engineering	
Technical thermodynamics	4	3				4		8	288	111.4	102	133.85	42.75			3	5										22	Department of Power engineering	
Heat and mass transfer	5	4			5			7	252	113.4	104	95.85	42.75				2	5									22	Department of Power engineering	
<b>Part formed by the educational process participants</b>								96	3456	1496.35	1224	1495.9	483.75	4	2	2	9	17	18	22	22								
<b>Socio-humanitarian module (B)</b>	6	5						5	180	92.4	60	53.85	33.75						2	3							52	Department of Management	
Economy and management in a utility company	6	5						5	180	92.4	60	53.85	33.75						2	3							52	Department of Management	
<b>Mathematics and natural scientific module (B)</b>	4	4						7	252	96.4	62	112.85	42.75					7											
Mathematical modelling		4						3	108	48.15	32	59.85							3								13	Department of Applied mathematics and information technologies	
Scientific research methods	4							4	144	48.25	30	53	42.75															22	Department of Power engineering
<b>Module "Safe living environment" (B)</b>	4							2	72	46.15	30	25.85						2											
Ecology and environmental management	4							2	72	46.15	30	25.85						2									44	Department of Water biosources and aquaculture	
<b>Professional module</b>	155667	78	3566	57	5678	7		56	2016	841.9	702	868.1	306	4		2			15	15	15	5							
Introduction to profession	1							4	144	46.25	30	64	33.75	4														22	Department of Power engineering
Combustion theory		3						2	72	32.15	30	39.85				2												22	Department of Power engineering
Technical measurements		5						2	72	32.15	30	39.85								2								32	Department of Production equipment engineering
Renewable energy sources			5					3	108	62.15	60	45.85							3									22	Department of Power engineering
Water treatment	5							4	144	50.25	46	51	42.75						4									22	Department of Power engineering
Turbines of thermal and nuclear power plants	5			5				6	216	80.25	60	93	42.75							6								22	Department of Power engineering
Energy saving in heat power engineering and heat technology	6							4	144	64.25	60	46	33.75								4							22	Department of Power engineering
Boiler plants and steam generators	6				6			6	216	96.25	74	77	42.75							6								22	Department of Power engineering
Electrical equipment of power plants		6						3	108	46.15	44	61.85								3								22	Department of Power engineering
Thermal and nuclear power plants	7	6			7			8	288	128.4	104	125.85	33.75							2	6							22	Department of Power engineering
Thermal mechanical and auxiliary equipment of power plants	7					7		6	216	81.25	60	101	33.75								6							22	Department of Power engineering
Modes of operation and operation of thermal power plants			7					3	108	62.15	60	45.85										3						22	Department of Power engineering
Thermal processes automation	8				8			5	180	60.25	44	77	42.75												5		11	Department of Production processes automation	
<b>Elective courses</b>	2							2	72	32.15	22	39.85			2														
Development of Russian power engineering		2						2	72	32.15	22	39.85			2													71	Department of History
Development of regional power engineering		2						2	72	32.15	22																		