

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	Class-room	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												
<b>Unit 1. Disciplines (modules)</b>								216	7776	3507.1	2904	3078.65	1190.25	29	28	26	31	29	25	27	21													
<b>Core part</b>								116	4176	1926.1	1630	1619.9	630	22	26	24	17	17	6	4														
<b>Socio-humanitarian module</b>	13	11234	224										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 project activities		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																			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																					
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>Mathematical and natural scientific module</b>	12223	113						29	1044	503.5	434	344.75	195.75	9	14	6																		
<b>Higher mathematics</b>	123	1						14	504	252.1	210	132.65	119.25	6	5	3																		
Algebra and geometry	1							4	144	62.55	44	38.7	42.75															13	Department of Applied mathematics and information technologies					
Mathematical analysis	2	1						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	108	50.55	46	23.7	33.75																	13	Department of Applied mathematics and information technologies			
Informatics	2							4	144	78.25	60	32	33.75																	13	Department of Applied mathematics and information technologies			
Physics	2	1						8	288	127	120	118.25	42.75	3	5											25	Department of Physics							
Information technologies in professional activities		3						3	108	46.15	44	61.85																			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 Techosphere safety and environmental management	
<b>Engineering and technical module</b>	233	112	56					123	23	828	332.5	256	385.25	110.25	4	6	7	3	3															
Engineering and computer graphics	2	1						12	6	216	82.4	60	90.85	42.75	2	4											32	Department of Production equipment engineering						
<b>Electrotechnical and construction materials</b>	3	1						3	5	180	67.4	60	78.85	33.75	2			3																
Material science		1						2	72	32.15	30	39.85			2											32	Department of Production equipment engineering							
Electrotechnical materials	3							3	108	35.25	30	39	33.75					3											22	Department of Power engineering				
Technical mechanics	3	2						6	216	78.4	60	103.85	33.75			2	4											24	Department of Theory of machines and mechanisms and machine parts					
Information and measuring technology			5					3	108	44.15	30	63.85																			11	Department of Production processes automation		
Metrology, standardization and certification			6					3	108	60.15	46	47.85																			11	Department of Production processes automation		
<b>General professional module</b>	44555	4	3	5	45			30	1080	507.55	448	367.7	204.75					5	13	12														
Theoretical foundations of electrical engineering	4	3						12	432	201.4	180	187.85	42.75					5	7											22	Department of Power engineering			
<b>Industrial electronics</b>	45				5			7	252	115.5	104	60	76.5					3	4															
Part 1. Basics of electronics	4							3	108	48.25	44	26	33.75					3											11	Department of Production processes automation				
Part 2. Power electronics	5				5			4	144	67.25	60	34	42.75					4											22	Department of Power engineering				
Electrical machines	5	4						8	288	144.4	134	100.85	42.75					3	5											22	Department of Power engineering			
Electrical and electronic apparatus	5							3	108	46.25	30	19	42.75					3											22	Department of Power engineering				
<b>Part formed by the educational process participants</b>								100	3600	1581	1274	1458.75	560.25	7	2	2	14	12	19	23	21													
<b>Socio-humanitarian module (B)</b>	6	5						5	180	92.4	60	53.85	33.75					2	3															
Economy and management in an enterprise	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>	14	34				1		13	468	193.1	166	189.4	85.5	4			2	7																
Mathematical modelling		4						3	108	48.15	46	59.85					3											13	Department of Applied mathematics and information technologies					
Scientific research methods	4							4	144	48.25	30	53	42.75					4											22	Department of Power engineering				
Chemistry	1					1		4	144	64.55	60	36.7	42.75	4											35	Department of Chemistry								
Mathematical tasks of electrical power engineering		3						2	72	32.15	30	39.85					2											22	Department of Power engineering					
<b>Module "Safe living environment"</b>	4							2	72	46.15	30	25.85																			44	Department of Water bioresources and aquaculture		
Ecology and environmental management	4							2	72	46.15	30	25.85					2											44	Department of Water bioresources and aquaculture					
<b>Professional module</b>	145666	777	67	557	6677	4		67	54	1944	848	678	765.25	330.75	3			5	10	16	20													
Introduction to profession	1							3	108	46.25	30	28	33.75	3											22	Department of Power engineering								
General power engineering	4				4			5	180	67.25	60	70	42.75					5											22	Department of Power engineering				
Renewable energy sources			5					3	108	62.15	60	45.85																			22	Department of Power engineering		
Power stations and substations	6		5	6				8	288	128.4	104	125.85	33.75					3	5											22	Department of Power engineering			
Electric drive	6							4	144	63.25	44	47	33.75					4	4											22	Department of Power engineering			
Electric power systems and networks	56				6			9	324	128.5	92	119	76.5					4	5											22	Department of Power engineering			
Power supply	7	6		7				6	216	82.4	60	99.85	33.75					2	4											22	Department of Power engineering			
Electromagnetic compatibility in the power engineering		7						2	72	32.15	30	39.85																			22	Department of Power engineering		
Relay protection and automation of electric power systems			7					3	108	60.15	46	47.85																			22	Department of Power engineering		
Transient processes in electric power systems	7				7			6	216	96.25	76	86	33.75																			22	Department of Power engineering	
High voltage technology	7							7	5	180	81.25	76	56	42.75																	22	Department of Power engineering		
<b>Elective courses</b>	2							2	72	32.15	22	39.85																						
Development of Russian power engineering	2							2	72	32.15	22	39.85																			71	Department of History		
Development of regional power engineering	2							2	72	32.15	22	39.85																			71	Department of History		
<b>Elective modules</b>	888	78	8	8				24	864	369.2	318	384.55	110.25																					
<b>Elective module 1 "Electrical power plants"</b>	888	78	8	8				24	864	369.2	318	384.55	110.25																					
Design of electrical installations of power plants and substations	8	7		8				9	324	118.4	100	162.85	42.75																			6	22	Department of Power engineering
Operating modes of electrical equipment of power plants and substations			8					3	108	68.15	66	39.85																			3	22	Department of Power engineering	
Automated control systems for power plants	8							5	180	78.25	64	68	33.75																			5	22	Department of Power engineering
Energy saving in the electric power engineering		8						3	108	46.15	44	61.85																			3	22	Department of Power engineering	
Fundamentals of operation of electrical equipment of power plants and substations	8							4	144	58.25	44	52	33.75																			4	22	Department of Power engineering
<b>Elective module 2 "Electrical supply"</b>	888	78	8	8				24	864	369.2	318	384.55	110.25																					
Design of substations of power supply systems	8	7																																