													Yes	ar 1	Yes	ar 2	Yez	ar 3	Yes	ar 4		
Name		Pass/	Pass/ fail	interim a	sessment		Calculat	Credits		Total acad	lemic hour	:	Semest er 1	Semest er 2	Semest er 3	Semest er 4	Semest er 5	Semest er 6	Semest er 7	Semest er 8		Assigned department
	Examin ation	fail exam	exam with a	Term project	Course work	Module test	ion and graphic work	Fact	As sheduled	with a teacher	Self study	Control	Credits	Code	Name							
Unit 1. Disciplines (modules) Core part								210 119	7560 4284	3950.6 2250.2	2810.1 5 1582.0	799.25 451.75	29 29	31 31	28 28	26 19	30 12	24	29	13		•
Basis	1	11111 23	22224					32	1152	710.05	5 407.2	34.75	14	14	2	2	12					
History of Russia Basics of Russian statehood		1	2					2	72	140.3 59.15	3.7 12.85		2	2							73	Department of History Department of Social sciences, pedagogy and law
Legal competence and civil position Philosophy	1	1						4	72 144	35.15 36.25	36.85 73	34.75	4								73 72	Department of Social sciences, pedagogy and law Department of Philosophy and cultural studies
Basics of self-organization, team building and leadership Life safety			2					3	108	70.15 70.15	37.85 73.85			3							52 42	Department of Management Department of Technosphere safety and
Pe and sport Economic culture		1 2						2	72 108	16.15 70.15	55.85 37.85		2	3							56 54	environmental engineering Department of PE Department of Economic theory and
Foreign language Foreign language		13 13	24					8	288 288	212.6 212.6	75.4 75.4		2	2	2	2						instrumental methods Department of Foreign languages
Foreign language: Russian as a foreign language Digital module	2	13	24					8 9	288 324	212.6 160.55	75.4 128.7	34.75	2	4	3	2					55	Department of Russian language
IT and basics of programming Data analysis and artificial intelligence	2	1	3					6	216 108	107.4 53.15	73.85 54.85	34.75	2	4	3						13 13	Department of Applied mathematics and Information technologies Department of Applied mathematics and Information technologies
Project module Basics of project activity		4	3					5	180 108	75.3 35.15	104.7 72.85				2	3					51	Department of Economics and finances
Social project "Service-learning" Natural science and engineering module	11223	12	3 4			11223	13	2 36	72 1296	40.15 642.45	31.85 445.05	208.5	13	11	2	4					73	Department of Social sciences, pedagogy and law
Higher mathematics Physics	123	1				123 12		12	432 288	214.65 142	113.1 111.25	104.25 34.75	4	4 5	4						13 25	Department of Applied mathematics and Information technologies Department of Physics
Engineering computer graphics Engineering mechanics	1 3	2					1	6	216 216	90.25 125.4	91 55.85	34.75 34.75	6	2	4						32 24	Department of Technological equipment engineering Department of Theory of Mechanisms and marblines and marbline parts
Electrical engineering and electronics Module of field subjects	34455	3	4		4		5	4	144	70.15 591.55	73.85 422.7	173.75			11	4	12					marhines and marhine narts Department of Power engineering
Metrology, thermal measurements and automation Material science and technology of structural materials	3		3					3	108 180	70.15 107.25	37.85 38	34.75			3						32 32	Department of Technological equipment ennineering Department of Technological equipment
Hydrogasdynamics Technical thermodynamics	4 45				4			5	180	71.25	74 109	34.75			3	5	5					engineering Department of Power engineering
Heat and mass transfer Engineering technologies in heat power engineering and	5	3			Ė		5	7	252 108	108.25	109	34.75			3		7				22	
Self-development module (elective disciplines)		23						4	144	70.3	73.7			2	2							Description of Confederation
Psychology of communication (Spring) Psychology of communication (Autumn)		3						2	72	35.15 35.15	36.85 36.85			2	2						73 73	and law Department of Social sciences, pedagogy and law
Personal marketing and branding (Spring) Personal marketing and branding (Autumn) Cultural charles and intercultural communication (Spring)		3						2	72	35.15 35.15	36.85 36.85			2	2						52	Department of Management Department of Management Department of Philosophy and cultural
Cultural studies and intercultural communication (Spring) Cultural studies and intercultural communication (Autumn)		3						2	72	35.15 35.15	36.85 36.85			2	2						72	studies Department of Philosophy and cultural studies
Human and society (Spring) Human and society (Autumn)		3						2	72	35.15 35.15	36.85 36.85			2	2						73 73	Department of Social sciences, pedagogy and law Department of Social sciences, pedagogy and law
Organization of volunteer activities (Spring) Organization of volunteer activities (Spring)		2						2	72	35.15 35.15	36.85 36.85			2	2						72 72	Department of Philosophy and cultural studies Department of Philosophy and cultural
Basics of critical thinking (Spring)		2						2	72	35.15	36.85			2							72	studies Department of Philosophy and cultural studies Department of Philosophy and cultural
Basics of critical thinking (Spring) Environmental culture (Spring)		3						2	72	35.15 35.15	36.85 36.85	E		2	2						72 44	studies Department of Water bioresources and anuaculture
Environmental culture (Autumn) Skills of effective recruitement (Spring)		3						2	72	35.15 35.15	36.85 36.85			2	2						44 52	Department of Water bioresources and aquaculture Department of Management
Skills of effective recruitement (Autumn) Personal financial management (Spring)		3						2	72 72	35.15 35.15	36.85 36.85			2	2						52 51	Department of Management Department of Economics and finances
Personal financial management (Autumn) Basics of modern managent (Spring)		3 2 3						2 2	72 72 72	35.15 35.15 35.15	36.85 36.85			2	2							Department of Economics and finances Department of Management Department of Management
Basics of modern managent (Autumn) Internet of things (Spring)		2						2	72	35.15	36.85			2							11	Department of Digital systems and automatics Department of Digital systems and
Internet of things (Autumn) Starting your own business. Start-up (Spring)		3						2	72	35.15 35.15	36.85 36.85			2	2						11 51	automatics Department of Economics and finances
Starting your own business. Start-up (Autumn) Business communication in Russian (Spring) Business communication in Russian (Autumn)		2						2 2	72 72 72	35.15 35.15 35.15	36.85 36.85			2	2						51 55 55	Department of Russian language
Differential equations (Spring) Differential equations (Autumn)		2						2	72	35.15 35.15	36.85			2	2						13	Department of Applied mathematics and
Numerical methods (Spring)		2						2	72	35.15	36.85			2							13	Information technologies Department of Applied mathematics and Information technologies Department of Applied mathematics and
Numerical methods (Autumn) Optimization methods and games theory (Spring)		3						2	72	35.15 35.15	36.85 36.85			2	2						13	Information technologies Department of Applied mathematics and Information technologies
Optimization methods and games theory (Autumn) Theory of functions of a complex variable (Spring)		3						2	72	35.15 35.15	36.85 36.85			2	2						13 13	Department of Applied mathematics and Information technologies Department of Applied mathematics and Information technologies
Theory of functions of a complex variable (Autumn) Applied statistics (Spring)		3						2	72	35.15 35.15	36.85 36.85			2	2						13	Department of Applied mathematics and Information technologies Department of Applied mathematics and
Applied statistics (Autumn)		3						2	72	35.15	36.85			2	2						13	Information technologies Department of Applied mathematics and Information technologies
Chemistry basis of modern technologies (Spring) Chemistry basis of modern technologies (Autumn) Chemistry of polymers (Spring)		3 2						2 2	72 72 72	35.15 35.15 35.15	36.85 36.85			2	2						35	Department of Chemistry Department of Chemistry Department of Chemistry
Chemistry of polymers (Spring) Basics of engineering mechanics (Spring)		3 2						2	72	35.15 35.15	36.85 36.85			2	2						35	Department of Chemistry Department of Theory of Mechanisms and
Basics of engineering mechanics (Autumn)		3 2						2	72	35.15 35.15	36.85			2	2						24	machines and machine parts Department of Theory of Mechanisms and machines and machine parts Department of Food products technology
Applied nutritiology (Spring) Applied nutritiology (Autumn)		3						2	72	35.15	36.85			2	2						31	
Part formed by the educational process participal Vocational module	45666	577	568	567			78	91 79	3276 2844	1700.4	1228.1	347.5 347.5				7	18	24	29	13		
Combustion theory	77788	5	5					3	108	35.15	72.85						3	-		-	22	Department of Power engineering
Renewable energy sources Water treatment Turbines of thermal and nuclear power plants	4		5	5				7	252 216	70.15 124.25 93.25	37.85 93 88	34.75 34.75				7	6				22 22	
Thermomechanical and auxiliary equipment for power plants Boiler plants and steam generators	7			6			7	6	216 252	108.25 111.25	73 106	34.75 34.75						7	6		22	Department of Power engineering
Thermal and nuclear power plants Energy saving in heat power engineering and heat technology	7		6	7				11	396 216	217.4 107.25	143.85 74	34.75 34.75						5	6		22	
District heating Elective modules	8 678	77	8				8	4 26	144 936	67.25 478.2	42 353.55	34.75 104.25						6	11	4 9	22	Department of Power engineering
Module 1. Operation of thermal power plants (TPP) Combined-cycle and gas turbine plants	678	77	8				8	26	936 180	478.2 89.25	353.55 56	104.25 34.75						6	11 5	9		Department of Power engineering
Installation, testing, adjustment and diagnostics of thermal power equipment Operating modes and operation of thermal power plants	8	7	8				8	8	288 144	151.4 78.15	101.85 65.85	34.75							3	5	22	Department of Power engineering Department of Power engineering
Environmental technologies at thermal power plants Water-chemical regimes of thermal power plants	6	7						3	108 216	70.15 89.25	37.85 92	34.75						6	3		42 22	Department of Technosphere safety and environmental engineering Department of Power engineering
Module 2. Technology of water and fuel preparation at thermal power plants (TPP) Technology of fuels and energy oils at thermal power plants	678	77	8				8	26	936 180	478.2 89.25	353.55 56	104.25 34.75						6	11	9	22	Department of Power engineering
(TPPs) Design of auxiliary heat and power equipment Fuel supply of thermal power plants	8	7	8				8	8	288 144	151.4	101.85	34.75							3	5	22	Department of Power engineering Department of Power engineering
Water desalination and wastewater treatment at thermal nower nlants: Fundamentals of chemical and technological processes at	6	7						3	108 216	70.15 89.25	37.85 92	34.75						6	3		22	Department of Power engineering
thermal power plants Project module Project workshop 1			57					12	432	288	144	34.73					6		6		22	Department of Power engineering
Research track Digital instruments			5					6	216 216	144	72						6				86 86	Project center Project center
Technological track Engineering track			5					6	216 216	144	72 72						6				86 86	Project center Project center
Service track Project workshop 2 Research track			5 7					6 6	216 216 216	144 144	72 72 72						6		6		86 86	
Digital instruments Technological track			7					6	216 216	144 144	72 72								6		86 86	Project center Project center
Engineering track Service track Graduation thesis as a start-up			7 7 79					6	216 216	144 144 144	72								6 6 3	3	86	
Graduation thesis as a start-up Unit 2.Practical training Core part		-	78	-				24 24	216 864 864	864 864	72					6		6	3	12 12	86	Project center
Academic training Primary practice			4					6	216 216	216 216						6					22	Department of Power engineering
Production practice Project module Technological practice			68 6					18 6	648 216 216	648 216 216								6		12	_	
Technological practice Pre-graduation practice Unit 3.State final examination			8					6 12 6	432 216	432		216	E		E			ь		12		Department of Power engineering Department of Power engineering
Preparation for the defense procedure and defense of the final qualification work Elective courses								6	216	140.6	183.4	216		4	2		3			6	22	Department of Power engineering
Elementary mathematics The historical role of Russia in the system of international		2						2	72	35.15 35.15	36.85 36.85			2							13 71	Department of Applied mathematics and Information technologies Department of History
relations The Great Patriotic War: no statute of limitations Electrical equipment of power plants		3 5						2 3	72 72 108	35.15 35.15 35.15	36.85 72.85			Ė	2		3				71	Department of History Department of History Department of Power engineering
Complex modules Module "Basics of military training"			5						436 108	334 78	102 30											
Module "Basics of military training" Basics of military training (Autumn)			5						108 108	78	30 30											
Basics of military training (Spring) Module "Physical education and sport" Practical training in PE and sport (elective course)		24 24	6						108 328 328	78 256 256	30 72 72										56	Department of PE