

3. PROGRAM STRUCTURE AND ACADEMIC CONTENT:

Module No.	Module	Module Scope, ECTS credits	Final Control Form of the Module	Course	Scope of the Course, ECTS credits	Control Form of the Course	Semester							
							1	2	3	4	5	6	7	8
Basic Modules (all courses of the module are compulsory for learning)														
1	Physics	6	Examination	Physics	6	Computer-Based Testing		6						
2	Basics of Mathematics	7	Comprehensive Examination	Mathematics 1	3	Written Control Work	3							
				Mathematics 2	4	Computer-Based Testing		4						
3	History of the State	4	State Exam	Modern History of Kazakhstan	4	Computer-Based Testing	4							
4	Foreign Language	9	Comprehensive Examination	English (German) Language	6	Written Control Work	6							
				English (German) Language	3	Computer-Based Testing		3						
5	National Language	9	Comprehensive Examination	Kazakh Language	6	Written Control Work	6							
				Kazakh Language	3	Computer-Based Testing		3						
6	Recreation Classes (Beginner Level)	4	Graded Test	Physical Education	2	Graded Test	2							
				Physical Education	2	Graded Test		2						
7	Recreation Classes (Intermediate Level)	4	Graded Test	Physical Education	2	Graded Test			2					
				Physical Education	2	Graded Test				2				
8	Electrical Engineering	9	Comprehensive Examination	Theoretical Basics of Electrical Engineering 1	5	Control Work			5					
				Theoretical Basics of Electrical Engineering 2	4	Computer-Based Testing				4				
9	Electrical Machinery	5	Examination	Electrical Machinery	5	Computer-Based Testing					5			
10	Profound Language Learning	6	Comprehensive Examination	Professional Kazakh (Russian) Language	3	Computer-Based Testing							3	
				Professionally-Oriented Foreign Language	3	Computer-Based Testing								3
11	Information and Communication Technologies	5	Examination	Information and Communication Technologies	5	Computer-Based Testing			5					
12	Industrial Electronics	3	Examination	Industrial Electronics	3	Computer-Based Testing				3				

13	Electric Power Plants and Substations	11	Comprehensive Examination	Electric Power Plants and Substations	6	Course Paper Defense				6				
				Electrical Power Engineering	5	Written Control Work			5					
14	Power Systems and Networks	13	Comprehensive Examination	Relay Protection of Electric Power Systems	4	Course Paper Defense					4			
				Power Supply of Facilities	5	Course Paper Defense					5			
				Power Systems and Networks	4	Course Paper Defense					4			
15	Electrical Drive	5	Course Paper Defense	Electrical Drive	5	Course Paper Defense							5	
16	Philosophy	5	Examination	Philosophy	5	Computer-Based Testing			5					
17	Social and Humanitarian Knowledge	8	Comprehensive Examination	Manashtanu	1	Reference Paper	1							
				Social and Political Studies	4	Computer-Based Testing	4							
				Cultural Studies and Psychology	3	Computer-Based Testing		3						
18	Final Internship	15	Internship Report Defense	Work Experience Internship 3	10	Internship Report Defense								10
				Pre-Graduation Internship	5	Internship Report Defense							5	
19	Final Academic Assessment	15	State Exam	State examination in the specialty	4	Written Control Work								4
			Diploma Thesis Defense	Developing and defending a thesis	11	Development and Diploma Thesis Defense								11
Elective Modules (containing elective courses)														
20	Basics of the Profession (Elective Module 1; EM1)	13	Comprehensive Examination	Elective course EM1	4	Reference Paper			4					
				Elective course EM1	4	Computer-Based Testing			4					
				Elective course EM1	4	Creative Examination	4							
				Practical Training	1	Internship Report Defense		1						
21	Basics of Equipment Operation (Elective Module 2; EM2)	20	Comprehensive Examination	Elective course EM2	4	Written Control Work				4				
				Elective course EM2	4	Computer-Based Testing			4					
				Elective course EM2	4	Reference Paper			4					
				Elective course EM2	4	Computer-Based Testing				4				

