3. PROGRAM STRUCTURE AND ACADEMIC CONTENT:

		Module	Final Control		Scope of					Sem	ester									
Module No.	Module	Scope, ECTS credits	Form of the Module	Course	the Course, ECTS credits	Control Form of the Course	1	2	3	4	5	6	7	8						
			Basic M	odules (all courses of the module are co	ompulsory for	learning)														
1	Physics	6	Examination	Physics	6	Computer-Based Testing		6												
2	Basics of Mathematics	7	Comprehensiv e 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	Comprehensiv e Examination	English (German) Language	6	Written Control Work	6													
				English (German) Language	3	Computer-Based Testing		3												
5	National Language	9	Comprehensiv e Examination	Kazakh Language	6	Written Control Work	6													
				Kazakh Language	3	Computer-Based Testing		3												
6	Recreation Classes	4	Graded Test	Physical Education	2	Graded Test	2													
	(Beginner Level)			Physical Education	2	Graded Test		2												
7	Basics of Electrical	12	Comprehensiv	Electric Circuit Theory	5	Control Work			5											
	Engineering		e Examination	Basics of Electronic and Measuring Equipment	4	Computer-Based Testing				4										
				Basics of Radio Engineering and Telecommunications	3	Written Control Work				3										
8	Information and Communication Technologies	5	Examination	Information and Communication Technologies	5	Computer-Based Testing			5											
9	Philosophy	5	Examination	Philosophy	5	Computer-Based Testing			5											
10	Recreation Classes	4	Graded Test	Physical Education	2	Graded Test			2											
	(Intermediate Level)			Physical Education	2	Graded Test				2										
11	Design of Electronic Devices	8	Comprehensiv e Examination	Circuity Engineering of Analog Electronic Devices	4	Course Paper Defense				4										
										Work Experience Internship 1	4	Internship Report Defense				4				

12	Digital Control Systems	10	Comprehensiv e Examination	Digital Devices	5	Course Paper Defense					5			
			e Examination	Microcontrollers and Microprocessors	5	Course Paper Defense					5			
13	Receiving and Transmitting Devices	14	Comprehensiv e Examination	Theory of Electrical Communication	5	Written Control Work					5			
			5 2	Radio Transmitters	4	Written Control Work					4			
				Radio Receivers	5	Course Paper Defense					5			
14	Radio Engineering Systems	10	Comprehensiv e Examination	Multichannel Telecommunication Systems	5	Written Control Work							5	
				Radio Engineering Systems	5	Course Paper Defense							5	
15	Profound Language Learning	6	Comprehensiv e Examination	Professional Kazakh (Russian) Language	3	Computer-Based Testing					3			
				Professionally-Oriented Foreign Language	3	Computer-Based Testing					3			
16	Social and Humanitarian Knowledge	8	Comprehensiv e Examination	Social and Political Studies	4	Computer-Based Testing	4							
				Cultural Studies and Psychology	3	Computer-Based Testing		3						
				Manashtanu	1	Reference Paper	1							1
17	Final Internship	15	Internship Report Defense	Work Experience Internship 3	10	Internship Report Defense								10
				Pre-Graduation Internship	5	Internship Report Defense								5
18	Final Academic Assessment	15	State Exam	State examination in the specialty	4	Written Control Work								4
			Diploma Thesis	Developing and defending a thesis	11	Development and Diploma Thesis								11
			Defense			Defense								
10	D : 04 D 0 :	10	C 1 :	Elective Modules (containing elective		D.C. D	T	1	I	I		1		
19	Basics of the Profession	13	Comprehensiv	Elective course EM1	4	Reference Paper		4						ш
	(Elective Module 1; EM1)		e Examination	Elective course EM1	4	Computer-Based Testing		4						
				Elective course EM1	4	Creative Examination	4							igsquare
				Practical Training	1	Internship Report Defense		1						
20	Analysis and synthesis of electrical circuits	ts	Comprehensiv e Examination	Elective course EM2	6	Computer-Based Testing				6				
	(Elective Module 2; EM2)			Elective course EM2	4	Written Control Work			4					

				Elective course EM2	5	Written Control			5					
				Elective course EM2	4	Work Creative Examination				4				\vdash
				Elective course EM2	4 4	<u> </u>			4	4				\vdash
21	Technologies of	3	Examination	Elective course EM3	3	Reference Paper Computer-Based			4	3				\vdash
21	Technologies of Technogenic Risk Management (Elective Module 3; EM3)	3	Examination	Elective course Eivi3	3	Testing				3				
22	Modules of modern electronic equipment	14	Comprehensiv e Examination	Elective course EM4	4	Written Control Work						4		
	(Elective Module 4; EM4)			Elective course EM4	5	Written Control Work						5		
	,			Elective course EM4	5	Creative Examination						5		
23	Design of electronics, control and	16	Comprehensiv e Examination	Elective course EM5	4	Written Control Work						4		
	communication systems (Elective Module 5;			Elective course EM5	4	Computer-Based Testing						4		
	EM5)			Elective course EM5	4	Creative Examination						4		
	LIVIS)			Work Experience Internship 2	4	Internship Report Defense						4		
24	Modern Communication Systems	20	Comprehensiv e Examination	Elective course EM6	5	Computer-Based Testing							5	
	(Elective Module 6; EM6)		Chammaton	Elective course EM6	5	Written Control Work							5	
				Elective course EM6	5	Written Control							5	
						Work								1
				Elective course EM6	5	Creative Examination							5	
			CTS per semester				30	30	30	30	30	30	30	30
		Total E	Exams (Final Cont	rol Forms)		Examinations	-	5	2	3	1	2	1	-
						State Exam	1	-	-	-	-	-	-	1
						Report Defense Graded Test	- 1	1	- 1	1	-	1 -	- -	2 -
						Course Paper Defense	-	-	-	1	3	-	1	-
						Bachelor's Thesis Defense	-	-	-	-	-	-	-	1