APPROVED Rector for Academic Affairs A.K. Khikmetov Protocol NMS KazNV named after al-Farabi

TABLE OF CORRESPONDENCE OF SPECIALITIES OF THE PREVIOUS LEVEL EDUCATIONS FOR EDUCATION PROGRAMME OF

DOCTORANTURE PhD

For 2020-2021 academic year.

Nº	Code of EP	Title of the educational program	The list of related specialties that do not require training by pre-requisites (name of the specialty)	Prerequisites of the educational program for graduates of unrelated specialties (name of the discipline)	Number of credits (ECTS)
	1		FACULTY OF BIOLOGY AND BIOTECHNOI	OGY	
1	8D05101	Biology	Biology Biotechnology	Cell biology Environment and conservation of biological diversity; Theoretical biology	5 5 5
2	8D05102	Biomedicine	Biology Biotechnology Biophysics	Theoretical Biomedicine The physiology of cells in norm and pathology Chronodiagnostic and chronotherapy	5 5 5
3	8D05105	Biotechnology	Biology Biotechnology	Modern methods in biotechnology Chromosomal and genetic engineering	5
4	8D05201	Environmental biotechnology	Biology Biotechnology	Modern methods in biotechnology	5
5	8D05103	Biophysics	Biology Biotechnology Biomedicine	Theoretical biology General principles of chronobiology Biophysics of regulatory processes	5 5 5
6	8D05104	Genetics	Biology Biotechnology Fisheries and industrial fish farming	Organization and planning of scientific research Methodology of systematic genetic research	5
7	8D05108	Geobotany	Biology Ecology Biotechnology Geobotany	Conservation of biological diversity and rational use of vegetation cover Phytocenology	5
8	8D05106	Nanobiotechnology in the food industry	Biology Biotechnology	Modern methods in biotechnology	5

9	8D08401	Fisheries and industrial	Biotechnology	Protection of fish resources	5
		fisheries	Fisheries and industrial fisheries	Biotechnology in fisheries	5
			Biology		
			Ecology		
			Zootechny		
			Technology of production of animal products		
10	8D05107	Phytobiotechnology	Biology	Modern methods in biotechnology	5
		, ,,	Biotechnology		
	1		FACULTY OF ORIENTAL STUDIES		•
11	8D02209	Orientalism	Orientalism	Diplomacy and foreign policy doctrine of the country	5
			Regional studies (Eastern countries)	under study	5
			Foreign Philology (Eastern languages)	Fundamental problems of the history of Eastern	5
			Translation business (Eastern languages)	countries/Modern historical processes in the countries	
			Turkology	of the East	
				Foreign (Eastern) language for academic purposes	
12	8D02305	Foreign Philology (Oriental	Foreign Philology (Eastern languages)	Main foreign language (Eastern) for academic purposes;	5
		languages)	Oriental studies	Modern trends in the literature of the studied (Eastern)	5
			Translation business (Eastern languages)	language;	5
			Turkology	Modern methodology infralogistics exercises.	
			Regional studies (Eastern countries)	<i>5, c</i>	
			Foreign language: two foreign languages		
13	8D02301	Translation business (Eastern	Orientalism	Oriental language for academic purposes	5
		languages)	Foreign Philology (Eastern languages)	Cross-cultural communication and translation problems	5
			Translation business (Eastern languages)	Modern trends in translation studies	5
			Turkology		
14	8D02208	Turkology	Orientalism	International relations of modern Turkic States	5
			Foreign Philology (Eastern languages)	Basics of phraseology and vocabulary of Turkic	5
			Translation business (Eastern languages)	languages	5
			Turkology	Fundamentals of the theory and methodology of	
				Turkology	
			FACULTY OF MEDICINE AND HEALTH C		
15	8D10102	Medicine	Master's degree in Medicine	Epidemiology	5
			Residency program (all specialties)	Environmental factors and their impact on health	5
16	8D10101	Public health	Master's degree in the specialty	Research strategy and evaluation of scientific	5
			Medicine	information	5
			Residency program (all specialties)	Fundamentals of public health teaching methodology	5
				Fundamentals of bioethics	
17	8D10103	Nursing	Master's degree in the specialty	Current trends in nursing	5
			Medicine	Project management in nursing	5
			Nursing	Methodology and methods of scientific research in	5
			Public health	nursing	

			Residency program (all specialties)		
18	8D01401	Physical culture and sport	Physical culture and sport	Scientific and practical bases of physical culture and sport in higher education institutions Physiological bases of management of functional readiness of athletes and those engaged in FC Theory, methodology and practice of the chosen sport at the University	5 5 5
		•	HIGHER SCHOOL OF BUSINESS AND ECONON		
19	8D04103	State and local government	Management State and local government Economy Marketing Logistics (by industry) Innovation management Project management Accounting and audit	Theory and practice of public administration Strategic management Human resource management	5 5 5
20	8D04104	Business administration	Finance Business administration Management State and local government Economy Marketing Logistics (by industry) Innovation management Project management Accounting and audit Finance	Strategic management Business planning Personnel management	5 5 5
21	8D04105	Innovation management	Management State and local government Economy Marketing Logistics (by industry) Innovation management Project management Accounting and audit Finance	Venture business management Marketing of innovations Innovation management	5 5 5
22	8D11301	Logistics (by industry)	Management State and local government Economy Marketing Logistics (by industry)	Logistics Transport logistics Global logistics	5 5 5

22	0004444	Nantania -	Innovation management Project management Accounting and audit Finance	
23	8D04111	Marketing	Management State and local government Economy Marketing Logistics (by industry) Innovation management Project management Accounting and audit Finance Marketing and management Strategic analysis in marketing Planning and organizing marketing research Nanketing Planning and organizing marketing research Nanketing and management Strategic analysis in marketing Planning and organizing marketing research Nanketing and management Strategic analysis in marketing Planning and organizing marketing research	5 5 5
24	8D04106	Management	Management State and local government Economy Marketing Logistics (by industry) Innovation management Project management Accounting and audit Finance Modern strategic analysis Human resource management Human resource management Fuman resource management Human resource management Fuman resource management Human resource management Fuman resource management	5 5
25	8D04107	Project management	Management State and local government Economy Marketing Logistics (by industry) Innovation management Project management Project management Accounting and audit Finance Management Project management Action Management Human resource management	5 5 5
26	8D04108	Accounting and audit	Finance Accounting and audit Economy World economy Management state and local government Marketing Admission of persons with an education in unrelated specialties is not provided specialties is not provided specialties is not provided	-
27	8D04110	Finance	Finance Admission of persons with an education in unrelated specialties is not provided Economy	-

			Management State and local government	
			Marketing World economy	
28	8D04102	Economy	Economy Economic security of the company	5
			Management Modern concepts of economic science	5 5
			Accounting and audit Finance Theory of industrial organization	5
			State and local government Marketing	
			Organization and rationing of labor	
			World economy State audit	
			Innovation management	
			Project management Business administration	
			Evaluation	
			Fundamentals of law and Economics	
			Logistics FACULTY OF GEOGRAPHY AND ENVIRONMENTAL SCIENCES	
29	8D05202	Geography	Preparation of geography teachers Geography of population and labor resources of the	5
			Geography Republic of Kazakhstan	3
			Land management Theoretical and methodological problems of geography	
			Cadastre	
			Meteorology	
			Hydrology	
			Tourism	
30	8D07301	Geodesy	Computer science Geographic Information Systems in Geodesy	5
		,	Mathematics	
			Geodesy	
			Geoinformatics	
			Cartography	
			Geography	
			Hydrology	
			Mine surveying	
			Land management	
			Cadastre	
31	8D07302	Geoinformatics	Computer science Information Menegement and Data Processing	5
			Mathematics	
			Geodesy	
			Geoinformatics	

			Cartography		
			Geography		
			Hydrology		
			Mine surveying		
			Land management		
			Cadastre		
32	8D05205	Geoecology and	Ecology	New technologies of rational use of biological and raw	5
		environmental management	Geoecology and environmental management	materials resources	5
		_	Life safety and environmental protection	Environmental protection technologies	5
			Hydrology	Modern methods of environmental risk assessment	
			Biology		
			Biotechnology		
			Chemistry		
33	8D05203	Hydrology	Hydrology	Integrated water resources management	5
				Computer technologies in hydrology	5
				Hydrology of urbanized territories	5
				The doctrine of soil moisture	5
				Reclamation hydrology	5
34	8D07304	Land management	Preparation of geography teachers	Territorial land use planning	5
			Geography	Theoretical and methodological foundations of land use	5
			Land management	regulation	
			Cadastre		
			Meteorology		
			Hydrology		
			Tourism		
			Ecology		
			Geoecology and environmental management		
			Geodesy		
			Cartography		
35	8D07305	Cadastre	Preparation of geography teachers	Technology of cadastral activity	5
			Geography	Fundamentals of land cadastre maintenance in foreign	5
			Land management	countries	
			Cadastre		
			Meteorology		
			Hydrology		
			Tourism		
			Ecology		
			Geoecology and environmental management		
			Geodesy		
			Cartography		

36	8D07303	Cartography	Computer science	Problems of the Theory and Methodology of Modern	5
	0007303	Curtography	Mathematics	Cartography	
			Geodesy	Cartography	
			Geoinformatics		
			Cartography		
			Tourism		
			Geography		
			Hydrology		
			Mine surveying		
			Land management		
			Cadastre		
37	8D05204	Meteorology	Meteorology	Features of the General atmospheric circulation and	5
37	8003204	Weteorology	Weteorology	long-term weather forecasts	5
				Modern statistical methods in meteorology	5
				Global monitoring of the atmosphere	5
				Forecast of natural disasters	5
					3
20	0005306			Global climate and its changes	_
38	8D05206	Natural-technogenic risks	Ecology	Regional and local natural and technical geosystems	5
			Geospatial environment management		
			Geoecology and environmental management		
			Geography		
			Geodesy		
			Hydrology		
			Meteorology		
			Life and environmental safety		
			Geoinformatics		
			Cartography		
			Integrated security management and audit in industry		
39	8D11101	Tourism	Tourism	Theoretical and methodological problems of the tourism	5
			Leisure	industry	5
			Restaurant and hotel business	Methods of teaching tourism in higher education	3
			Sanitary and preventive measures	Modern research of the tourism industry	
			Transport service		
			Logistics (by industry)		
			Interdisciplinary programs related to services		
40	8D015202	Geography	Geography Teacher Training	Pedagogy of higher education	5
			Geography	Innovative methods of teaching geography	5
			Land management		
			Cadastre		
			Meteorology		
			Hydrology		

			Tourism		
41	8D05207	Ecology	Ecology Geoecology and environmental management Life safety and environmental protection Hydrology Biology Biotechnology	New technologies of rational use of biological and raw materials resources Environmental protection technologies Modern methods of environmental risk assessment	5 5 5
			Chemistry		
			FACULTY OF JOURNALISM		
42	8D03201	Journalism	Journalism International journalism Publishing business Design Public relation	Converged journalism	5
43	8D03202	Media and communications	Journalism International journalism Publishing business Design Public relation Sociology	Converged journalism	5
44	8D03203	International journalism	Journalism International journalism Publishing business Design Public relation	Globalization and leadership in the digital and new media age Digitalization and data journalism	5 5
45	8D03204	Public relations	Journalism International journalism Publishing business Design Public relation State and local government	Scientific bases of PR Effective PR strategies	5
			FACULTY OF HISTORY, ARCHEOLOGY AND ETHN		
46	8D02210	Archaeology	Archaeology and Ethnology History Museum management and monument protection	Theoretical and methodological problems of archeology Ethnocultural processes in ancient and medieval Kazakhstan	5
47	8D02205	Archaeology and Ethnology	History Museum management and monument protection	Theoretical and methodological problems of archeology Theoretical and methodological problems of Ethnology	5 5
48	8D03205	Archival science, scientific discipline of documentation and documentation support	Archival science, scientific discipline of documentation and documentation support History Museum management and monument protection	Theoretical problems of archival science Theoretical problems of document management Methodological and theoretical problems of archaeography,	5 5 5 5

				Documentary publications in electronic format	
49	8D03206	Library information system	Archival science, scientific discipline of documentation	Organization and modernization of the library Fund	5
			and documentation support	Theoretical and methodological foundations of book	5
			History	science, library science and bibliography	5
			Museum management and monument protection	Informational interaction and design	
50	8D02206	History	Archaeology and Ethnology	Innovations in the study of fundamental problems of	5
			History	world history	5
			Museum management and monument protection	Theoretical and methodological problems of source	5
				studies and historiography	5
				Actual problems of Russian history	
				Interdisciplinary approaches in modern historical	
				science	
51	8D02207	Museum management and	History	Innovation in Museum management: theory and	5
		monument protection	Archaeology and Ethnology	practice	5
				Modern problems of the world Museum space	
52	8D02211	Ethnology and anthropology	Archaeology and Ethnology	Theoretical and methodological problems of Ethnology	5
			History	Ethnic and ethno-cultural processes in modern	5
			Museum management and monument protection	Kazakhstan	
			FACULTY OF MECHANICS AND MATHEMATI	ICS	
53	8D07111	Space equipment and	Space equipment and technologies	The design of spacecrafts	5
		technologies	Mechanics	Mathematics	5
			Mathematical and computer modeling	Programming	5
			Aviation equipment and technologies		
			Instrument making		
			Radio engineering, electronics, telecommunications		
			Physics		
54	8D05401	Mathematics	Mathematics	Mathematical analysis on manifolds	5
				General algebra	5
				Complex analysis	5
55	8D07117	Robotic systems	Natural Sciences, Mathematics and Statistics	Theoretical Mechanics	6
			Information and communication technologies	Robot mechanics	5
			Engineering, manufacturing and construction industries	Programming	5
56	8D05403	Mechanics	Mechanics	Modern problems of mechanics	5
			Space equipment and technologies	Mathematical analysis	5
			Mathematical and computer modeling	Programming	5
			Physics		
			RSE		
57	8D02205	Archaeology and Ethnology	Archaeology and Ethnology	Fundamental problems of archaeology	5
			Museum management and monument protection	Fundamental problems of Ethnology	5
			History		

			Archival science, scientific discipline of documentation		
			and documentation support		
58	8D02209	Orientalism	Orientalism	Modern historical processes in the countries of the East	5
			Regional studies	Oriental language for academic purposes	5
			(with knowledge of the Eastern language)	Traditionalism and modernization of Eastern civilizations	5
			History		
			Turkology		
			Foreign Philology (with knowledge of the Eastern		
			language)		
			Translation business (with knowledge of the Eastern		
			language)		
			Cultural studies		
			Religious studies		
59	8D07116	Intelligent control system	Computer science	Automation of technical systems	5
			Information system	Database design	5
			Computer equipment and software	Mathematical analysis	5
			Automation and management		
			Mathematical and computer modeling		
			Information security system		
60	8D01502	Computer science	Computer science	Algorithms and their complexity	5
			Mathematical and computer modeling;	Object-oriented programming technologies	5
			Information system	Mathematical analysis	5
			Computer equipment and software		
			Automation and management		
			Information security system		
61	8D06101	Information system	Computer science	The architecture of information systems	5
			Information system	Information system infrastructure	5
			Computer equipment and software	Mathematical analysis	5
			Mathematical and computer modeling		
			Automation and management;		
			Information security system		
62	8D06114	Artificial intelligence in	Computer science	Mathematical logic	3
		medicine	Information system	Programming technology	5
			Computer equipment and software		
			Automation and management		
			Mathematical and computer modeling		
			Information security system		
63	8D02204	Islamic studies	Islamic studies	Modern problems of Islamic teachings	5
			Religious studies	Hadith studies	3
			Philosophy	Theology of Islam	3
			Theology		

			Political science		
			Orientalism		
64	8D02206	History	Culturology Archaeology and Ethnology History Museum management and monument protection Archival science, scientific discipline of documentation and documentation support Jurisprudence Regional studies Orientalism International relations Religious studies Culturology	Theoretical and methodological problems of Russian history Innovations in the study of fundamental problems of world history Actual problems of Russian history	5 5 5
65	8D02307	Kazakh philology	Linguistics Foreign philology Philology Literary criticism Translation Studies Russian language and literature Oriental studies	General linguistics Scientific paradigms of General linguistics	5 3
66	8D06102	Computer engineering	Computer science Mathematical and computer modeling Information system Computer equipment and software Automation and management Information security system	High-speed computing technology Programming technology Mathematical analysis	5 5 5
67	8D06103	Computer science	Computer science Mathematical and computer modeling Information system Computer equipment and software Automation and management Information security system	High-speed computing technology Programming technology Mathematical analysis	5 5 5
68	8D07111	Space equipment and technologies	Space equipment and technologies Mechanics Mathematical and computer modeling Aviation equipment and technologies Instrument making Radio engineering, electronics, telecommunications Physics	The design of spacecrafts Mathematics Programming	5 5 5
69	8D02303	Linguistics	Linguistics	General linguistics	5

			Foreign philology Philology	Scientific paradigms of General linguistics	3
70	8D02304	Literary study	Literary study Russian language and literature Philological Translation business Orientalism	Actual problems of Kazakh literature	5
71	8D06104	Mathematical and computer modeling	Mathematical and computer modeling Mathematics Mechanics Computer science Information system Computer equipment and software, Automation and management Information security system	Programming technology Numerical method Fundamentals of mathematical modeling	5 5 5
72	8D06104	Mathematical and computer modeling	Mathematics Mechanics	Mathematical analysis Algebra Numerical method Differential controls Mathematical modeling	5 3 5 5
73	8D05403	Mechanics	Mechanics Space equipment and technologies Mathematical and computer modeling Physics	Modern problems of mechanics Mathematical analysis Programming	5 5 5
74	8D04101	World economy	Economy Management Accounting and audit Finance State and local government Marketing Statistics International law International relations Regional studies	Methodology of economic research International macroeconomics Regional integration	5 5 5
75	8D03104	Political science	Sociology Philosophy Culturology History International relations	State policy Public administration Modern international relations and global development	5 5 5

			International law		
			Regional studies		
76	8D02203	Religious studies	Religious studies	Methodology of religious studies	5
			Philosophy	State legislation on religion	5
			Theology	Philosophy of religion of the twentieth century	5
			Islamic studies		
			Political science		
			Orientalism		
			Culturology		
77	8D06105	System engineering	Computer science	Methods and means of protecting computer	5
			Information system	information	5
			Computer equipment and software	Computer science	5
			Mathematical and computer modeling	Mathematical analysis	
			Automation and management		
			Information security system		
78	8D06301	Information security system	Computer science	Methods and means of protecting computer	5
			Information system	information	5
			Computer equipment and software	Numerical-theoretical methods of cryptography	5
			Mathematical and computer modeling	Mathematical analysis	
			Automation and management;		
			Information security system		
			Mechanics		
			Mathematics		
			Applied mathematics		
			Radio engineering, electronics, telecommunications		
79	8D02202	Philosophy and ethics	Philosophy	Actual problems of modern philosophy	5
			Culturology	History and philosophy of science	3
			Religious studies	Philosophy of education	5
			Sociology		
			Political science		
80	8D05404	Basic and applied	Mathematical and computer modeling	Mathematical analysis	5
		mathematics	Mechanics	Algebra	5
			Mathematics	Functional analysis	3
				Differential controls	5
				Equations of mathematical physics	5
81	8D04102	Economy	Economy	Macroeconomics (intermediate)	5
			Management	Econometrica (intermediate)	5
			Accounting and audit	Microeconomics (intermediate)	5
			Finance		
			State and local government		
			Marketing		

			FACULTY OF PHYSICS AND TECHNOLOGY		
82	8D07110	Materials science and	Physics	Modern materials science	5
		technology of new materials	Nuclear physics	Nanotechnologies in materials science	5
			Technical Physics		
			Astronomy		
			Materials science and technology of new materials		
			Radio engineering, electronics and telecommunications		
			Standardization, certification and metrology (by		
			industry)		
			Heat power engineering		
			Power engineering		
			Maths		
			Computing technology and software		
			Information Systems		
			Information security systems		
			Space engineering and technology		
			automation and control		
83	8D07112	Nanomaterials and	Materials science and technology of new materials	Introduction to nanotechnology	5
		nanotechnologies	Nanomaterials and nanotechnology	Fundamental foundations of nanotechnology	5
			Heat power engineering		
			Technical Physics		
			Standardization, certification		
			Physics		
			Nuclear physics		
			Radio engineering, electronics and telecommunications		
			Physics and Astronomy		
			Metrology		
			Computing technology and software		
			Information Systems		
			Information security systems		
			Space engineering and technology		
- 0.1	0000004		automation and control		-
84	8D06201	Radio engineering,	Radio engineering, electronics and telecommunications	Scientific and technical problems of radio engineering,	5
		electronics and	Physics and Astronomy	electronics and telecommunications	5
		telecommunications	Materials science and technology of new materials	Physical processes of nanoelectronics and	
			Heat power engineering	optoelectronics	
			Technical Physics		
			Standardization, certification		
1			Physics Nuclear physics		
			Nuclear physics		
			Nanomaterials and nanotechnology		

			Metrology Computing technology and software Information Systems Information security systems Space engineering and technology Automation and control		
85	8D075	Standardization and certification Metrology	Heat power engineering Technical Physics Standardization, certification Physics Materials science and technology of new materials Nuclear physics Radio engineering, electronics and telecommunications Physics and Astronomy Nanomaterials and nanotechnology Metrology Computing technology and software Information Systems Information security systems Space engineering and technology automation and control	Modern aspects of standardization and certification development (by industry) Technical regulation	5
86	8D07106	Heat power engineering	Heat power engineering Technical Physics Standardization, certification Physics Materials science and technology of new materials Nuclear physics Radio engineering, electronics and telecommunications Physics and Astronomy Nanomaterials and nanotechnology Metrology Computing technology and software Information Systems Information security systems Space engineering and technology automation and control	Information systems in heat power engineering and heat technology Scientific and technical problems of heat power engineering and heat technology	5
87	8D01501	Physics	Physics Nuclear physics Technical Physics Astronomy Materials science and technology of new materials	Actual problems of modern physics Additional chapters in plasma physics	5

				·	
			Radio engineering, electronics and telecommunications Standardization, certification and metrology (by industry) Heat power engineering Power engineering Maths Computing technology and software Information Systems Information security systems Space engineering and technology automation and control		
88	8D053	Physics Physics (Osaka) Physics (VPU) Physics and astronomy Nuclear physics Applied physics Technical physics (KTU)	Physics Nuclear physics Heat power engineering Technical Physics Standardization, certification Materials science and technology of new materials Radio engineering, electronics and telecommunications Physics and Astronomy Nanomaterials and nanotechnology Metrology Computing technology and software Information Systems Information security systems Space engineering and technology Automation and control	Basic principles of modern physics Pedagogy	5 5
89	8D07115	Electronics and control systems	Radio engineering, electronics and telecommunications Physics and Astronomy Materials science and technology of new materials Heat power engineering, Technical physics Standardization, certification Physics Nuclear physics Nanomaterials and nanotechnology Metrology Computing technology and software Information Systems Information security systems Space engineering and technology Automation and control	Circuit design of electronic systems Modern information transfer systems	5 5

90	8D07108	Electroenergetics	Physics	Scientific and technical problems of electric power	5
	0207200		Nuclear physics	industry	5
			Technical Physics	Electric machine	
			Astronomy		
			Materials science and technology of new materials		
			Radio engineering, electronics and telecommunications		
			Standardization, certification and metrology (by		
			industry)		
			Heat power engineering		
			Power engineering		
			Maths		
			Computing technology and software		
			Information Systems		
			Information security systems		
			Space engineering and technology		
			Automation and control		
		I	FACULTY OF PHILOLOGY AND WORLD LANGUA	AGES	1
91	8D02306	Foreign Philology (Western	Translation business	Modern literary studies	5
		languages)	Foreign philology	National variants of modern English: problems, solutions	5
			Linguistics		
			Philology		
92	8D01705	Foreign language: Two	Linguistics	Modern methodology of foreign language education	5
		foreign languages	Computational linguistics	Level-level organization of a foreign language	5
			Foreign language: two foreign languages	Foreign language and language contacts	5
			Translation business		
			Foreign philology		
			Philology		
93	8D02307	Kazakh philology	Philology	Theory of artistic text / Active processes in the modern	5
			Literary study	Kazakh language	
			Linguistics		
			Orientalism		
			Russian language and literature		
			Foreign philology		
			Translation business		
			Kazakh language and literature		
94	8D01701	Kazakh language and	Literary study	Theoretical bases of periodization of literary history	5
		literature	Philology		5
			Kazakh language and literature	Theoretical foundations of periodization of the history	5
			Russian language and literature	of the language	
			Translation business		
			Orientalism		

95	8D02303	Linguistics	Linguistics	Scientific organization of linguistic research	5
			Computational linguistics	Theory of language	5
			Foreign language: two foreign languages	Methods and techniques of linguistics	5
			Translation business	·	
			Foreign philology		
			Philology		
96	8D02304	Literary study	Literary study	Actual problems of literature and folklore	5
			Philology	Literary studies and intercultural communication	5
			Kazakh language and literature		
			Russian language and literature		
			Translation business		
			Orientalism		
97	8D02302	Translation business	Translation business	Innovative technologies and methods of teaching	5
		(Western languages)	Foreign philology	translation	5
			Linguistics	Cognitive and communicative concept of translation	
			Philology		
98	8D02308	Russian Philology	Philology	Actual problems of linguistics/ literature studies	5
			Literary study	New directions of linguistics / literary studies	5
			Linguistics		
			Russian language and literature		
			Foreign philology		
			Pedagogy and psychology		
			Kazakh language and literature		
99	8D01704	Russian language and	Philology	Current problems of linguistics,	5
		literature	Literary study	Russian classical literature in scientific research	5
			Linguistics		
			Russian language and literature		
			Foreign philology		
			Pedagogy and psychology		
			Kazakh language and literature		
	1		FACULTY OF INFORMATION TECHNOLOGIE		T
100	8D07116	Intelligent control system	Automation and management	Mathematical methods in intelligent control systems	5
			Computer science	Optimal management of automation objects	5
			Computer equipment and software		
			Information system		
			Information security system		
			Mathematical and computer modeling		
			Mathematics		
			Mechanics		
			Space engineering and technology		
			Radio engineering, electronics and telecommunications		

			Electroenergetics Physics Heat power engineering Applied physics		
101	8D01502	Computer science	Nuclear physics Computer science Computer equipment and software Automation and management Information system Information security system Mathematical and computer modeling Mathematics Mechanics Space engineering and technology Radio engineering, electronics and telecommunications Electroenergetics Physics Heat power engineering Applied physics	Informatization of education and problems of training	5
102	8D06101	Information system	Nuclear physics Information system Information security system Computer science Computer equipment and software Mathematical and computer modeling Applied mathematics Mathematics Mechanics Space engineering and technology Radio engineering, electronics and telecommunications Electroenergetics Physics Heat power engineering Applied physics Nuclear physics	Analysis, modeling and design of information systems Models and methods of IP decision support	5 5
103	8D06114	Artificial intelligence in medicine	Automation and management Computer science Computer equipment and software Information system Information security system Mathematical and computer modeling	Computer models of computing Methods for statistical data analysis	5

			Mathamatica		
			Machanics		
			Mechanics		
			Space engineering and technology		
			Radio engineering, electronics and telecommunications		
			Electroenergetics		
			Physics		
			Heat power engineering		
			Applied physics		
			Nuclear physics		
104	8D06102	Computer engineering	Computer science	Software development technology	5
			Computer equipment and software		5
			Automation and management	Advanced data structures, algorithms and analysis	5
			Information system	, , , , , , , , , , , , , , , , , , , ,	
			Information security system	Network technologies	
			Mathematical and computer modeling	, , , , , , , , , , , , , , , , , , ,	
			Mathematics		
			Mechanics		
			Space engineering and technology		
			Radio engineering, electronics and telecommunications		
			Electroenergetics		
			Physics		
			Heat power engineering		
			Applied physics		
			Nuclear physics		
105	8D06103	Computer science	Computer science	Software development technology	5
			Computer equipment and software	Advanced data structures, algorithms and analysis	5
			Automation and management	Network technologies	5
			Information system		
			Information security systems		
			Mathematical and computer modeling,		
			Mathematics		
			Mechanics		
			Space engineering and technology		
			Radio engineering, electronics and telecommunications		
			Electroenergetics		
			Physics		
			Heat power engineering		
			Applied physics		
			Nuclear physics		
106	8D06105	System engineering	Computer science	Software development technology	5
			Computer equipment and software		5

			Automation and management	Advanced data structures, algorithms and analysis	5
			Information system		
			Information security system	Network technologies	
			Mathematical and computer modeling		
			Mathematics		
			Mechanics		
			Space engineering and technology		
			Radio engineering, electronics and telecommunications		
			Electroenergetics		
			Physics		
			Heat power engineering		
			Applied physics		
			Nuclear physics		
107	8D06301	Information security system	Information security system	Organization of information security systems	5
		, ,	Information system	Cryptanalysis	5
			Computer science	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
			Computer equipment and software		
			Mathematical and computer modeling		
			Applied mathematics		
			Mathematics		
			Mechanics		
			Space engineering and technology		
			Radio engineering, electronics and telecommunications		
			FACULTY OF INTERNATIONAL RELATIONS		
108	8D04201	International law	Jurisprudence	IPL	5
			Law enforcement	PIL	5
			Customs matter	Theory of state and law	5
			International law		
109	8D03105	International relations	International relations	Foreign policy of the Republic of Kazakhstan	5
103	0503103	meeriational relations	Regional studies	Modern problems of international relations	5
			Regional statics	International relations theory	5
				Globalization and international relations	5
				Megatrends and global issues of world politics	5
110	8D04101	World economy	World economy	Methodology of economic research	5
110	8004101	World economy	Economy	International economics	5
			Finance	World economy	5
			Management	International entrepreneurship	5
			Marketing	Economic aspects of global problems of humanity	5
			=	Economic aspects of global problems of numanity	٥
			State and local government		
			Logistics (by industry)		
			Fundamentals of law and Economics		

			Project management		
111	8D03106	Regional studies	Regional studies	Actual problems of regions in the system of	5
			International relations	international relations: theoretical and practical	5
				approaches	5
				Modern issues of global integrated regional studies	5
				Source analysis of Central Asian countries ' foreign policy	5
				Modern theories of national and global security	
				Political regionalism	
			FACULTY OF PHILOSOPHY AND POLITICAL SCIE		L
112	8D02204	Islamic studies	Religious studies	Contemporary Problems of Islamic Teachings	5
			Philosophy	Legal regulation of religious associations	5
			Theology	Methodology of Islamic studies	5
			Culturology		
			Islamic studies		
113	8D03103	Conflictology	Conflictology	History of conflict resolution	5
		,	Political science	Examination and prediction of conflict resolution	5
			History	Conflict resolution: strategies and methods	5
			International relations		
			International law		
			Jurisprudence		
			Philosophy		
			Culturology		
			Religious studies		
			Sociology		
			Social work		
			Regional studies		
			State and local government		
			Journalism		
			Public relations		
			Orientalism		
			Psychology		
114	8D03102	Culturology	Culturology	Modern studies of culture	5
			Philosophy	Introduction to Cultural Anthropology	5
			Religious studies	Theory and Methodology of the Typology of Culture	5
			Art criticism		
			Islamic studies		
115	8D01101	Pedagogy and psychology	Pedagogy and psychology	Educational policy: theory and practice of analysis	5
			Social pedagogy and self-knowledge	Actual problems of personal development in education	5
			Psychology	Organization and planning of scientific research	
116	8D02201	Political philosophy	Philosophy	The philosophy of power	5
			Culturology	Modern Kazakh philosophy	5

			Religious studies		
			Sociology		
			Political science		
117	8D03104	Political science	Political science	Public administration	5
			History	State policy	5
			International relations	Modern international relations and global development	5
			Regional studies	В в в в в в в в в в в в в в в в в в в в	
			International law		
			Jurisprudence		
			Philosophy		
			Culturology		
			Religious studies		
			Sociology		
			Social work		
			State and local government		
			Journalism		
			Public relations		
			Orientalism		
			Conflictology		
118	8D03107	Psychology	Pedagogy and psychology	History, state and trends of development of modern	3
			Social pedagogy and self-knowledge	psychology	5
			Philosophy	Research methods and experience	
			Sociology		
			Social work		
			Culturology		
			Political science		
			Public health		
119	8D03107	Psychology (doctoral	Journalism	Psychology of management	3
		program, in English.	Personality and organizational psychology (scientific and	History, state and trends of development of modern	5
		language)	pedagogical master's degree), in English	psychology	5
			Child psychology (scientific and pedagogical master's	Modern methods of statistics in psychology	5
			program)	Theoretical and methodological foundations of	
			Clinical psychology (scientific and pedagogical master's	psychology	
			program)		
120	8D02203	Religious studies	Religious studies	Problems of modern religious studies	5
			Philosophy	Legal regulation of religious associations	5
			Theology	Methodology of Religious Studies	5
			Islamic studies		
			Culturology		
121	8D01801	Social pedagogy and self-	Pedagogy and psychology	Theoretical and methodological foundations of social	5
		knowledge	Social pedagogy and self-knowledge	pedagogy	

			Psychology		
122	8D10201	Social work	Social work	Actual problems of social work theory and methodology	5
			Sociology	Social order and development of a system of social	5
			Psychology	services	5
			Social pedagogy self-knowledge	Social partnership and dialogue in social work	
123	D061	Sociology	Culturology	Sociological theories	5
			Political science	Modern methods of sociological research	5
			International relations	Modeling of social processes	5
			Religious studies		
			Psychology		
			Public administration		
			Philosophy		
			Marketing		
			Mathematics		
			Economy		
124	8D02202	Philosophy	Philosophy	Philosophy of education	5
			Culturology	Modern Kazakh philosophy	5
			Religious studies		
			Sociology		
			Political science		
			FACULTY OF CHEMISTRY AND CHEMICAL TECHN	-	
125	8D07113	Nanomaterials and	Chemistry	Fundamental foundations of nanotechnology	5
		nanotechnologies in	Nanomaterials and nanotechnologies		
		chemistry	CTIS		
			CTOS		
			Chemical technology of explosives and pyrotechnics		
			Oil and gas business		
			Chemical engineering		
			Pharmaceutical manufacturing technology		
126	8D07101	Petrochemistry	Petrochemistry	Technology of heterolytic and homolytic processes in oil	5
			Chemistry	refining	
			CTOS		
			Nanomaterials and nanotechnologies		
			Oil and gas business		
			Chemical engineering		
127	8D07102	Chemical engineering (eng.)	CTOS	Modern technologies of processing of mineral raw	5
			CTIS	materials	
			Chemistry		
			Nanomaterials and nanotechnologies		
			Oil and gas business		

			Petrochemistry		
			Pharmaceutical manufacturing technology		
			Biotechnology		
			Ecology		
420	0007400		Materials science		+-
128	8D07103	Chemical technology of	Chemical technology of explosives and pyrotechnics	Pyrotechnic substances and devices-classification,	5
		explosives and pyrotechnics	Nanomaterials and nanotechnologies	calculation, production features	
			Chemistry		
			CTIS		
			CTOS		
			Oil and gas business		
			Petrochemistry		
	0007101		Chemical engineering		<u> </u>
129	8D07104	Chemical technology of	CTIS	Modern technologies of processing of mineral raw	5
		inorganic substances	CTOS	materials	
			Chemistry		
			Nanomaterials and nanotechnologies		
			Chemical engineering		
			Biotechnology		
			Ecology		
420	0007405		Materials science		
130	8D07105	Chemical technology of	Chemistry	Modern technologies for processing organic substances	5
		organic substances	CTOS CTIS		
			Oil and gas business Petrochemistry		
			Nanomaterials and nanotechnologies		
			Chemical technology of explosives and pyrotechnics		
131			Chemical engineering		
	8D05301	Chemistry	Chemistry	Theory and problems of physical chemistry	5
131	8003301	Chemistry	CTIS	Theory and problems of physical chemistry	
			CTOS		
			Petrochemistry		
			Nanomaterials and nanotechnologies		
			Chemical technology of explosives and pyrotechnics		
			FACULTY OF LAW		1
132	8D04202	Customs matter	Customs matter	Organization of customs Affairs	5
-			International law	Customs law	5
			Law enforcement	Financial law	5
			Forensic examination		
133	8D04203	Jurisprudence	Customs matter	Theory of the state and law	5
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	International law	Civil law	5
	Law enforcement	Criminal law	5
	Forensic examination		