

2. CONTENT OF THE EDUCATIONAL PROGRAM

№	Code and name of modules	Total credits by module	№	Name of subject and code	Credits by subjects	Cycle/component
1	GES -1 General educational subjects module	36	1	GES 101 History of Kazakhstan	5	GC/ CC
			2	GES 102 Philosophy	5	GC/ CC
			3	GES 103 Social and Political Knowledge Module (Sociology, Cultural Studies, Political Science, Psychology)	8	GC/ CC
			4	GES 1(2)04 Physical Culture	8	GC/ CC
			5	GES 205 Information and Communication Technologies	5	GC/ CC
			6	1. GES 106/1 Fundamentals of Legal Literacy and Anti-Corruption culture / 2. GES 106/2 Fundamentals of Ecology and Safe life / 3. GES 106/3 Fundamentals of Economics and Entrepreneurship / 4. GES 106/4 Fundamentals of Leadership and receptivity to innovation / 5. GES 106/5 Emotional Intellect 6. GES 106/6 Fundamentals of mathematical statistics	5	GC/ OC
2	GLC -2 Language communication module	25	1	GLC 101 Kazakh (Russian) Language	10	GC/ CC
			2	GLC 102 Foreign Language	10	GC/ CC
			3	GLC 203 English for Academic Purposes	5	CC/ UC
3	GER – 3 Global Ethics and Research module	22	1	GER 201 Inclusive Education	6	CC/ UC
			2	GER 402/1 Fundamentals of Educational research	6	CC/ UC
					4	CC/ UC
			3	GER 303 Professional ethics and identity	6	MC/ UC
4	GPS – 4	21	1	GPS 201 Educational psychology	6	CC/ UC
			2	GPS 202 Pedagogy and didactic	6	CC/ UC
			3	GPS 303 Criteria Assessment Technology	5	CC/ UC

	General pedagogical subjects module		4	C(PP)P 205/1 Continuous (psychology and pedagogical) practice	1	CC/ UC			
5	FGCh -5 Fundamentals of general Chemistry	35	1	FGCh-101 - Inorganic chemistry	6	CC/ UC			
			2	FGCh-202/1 - Analytical chemistry FGCh-202/2 - <i>Quantitative and qualitative analysis</i>	6	CC/ OC			
			3	FGCh-203 - Organic chemistry of aliphatic compounds	5	CC/ UC			
			4	FGCh-304 - Organic chemistry of cyclic compounds	5	CC/ UC			
			5	FGCh-305/1 - Physical chemistry FGCh-305/2 - <i>Substante structures</i>	6	CC/ OC			
			6	FGCh-306/1 - Methods of solving tasks in chemistry FGCh-306/2 - <i>Olympiad tasks in chemistry</i>	6	CC/ OC			
			7	CT(DP 104/1) Continuous educational (introductory) practice	1	CC/ UC			
			6	PAB-6 Plant and animal biodiversity	27	1	PAB-101 Botany	5	CC/ UC
2	PAB-202 Zoology	5				CC/ UC			
3	PAB-203/1 Cytology, histology and embryology PAB-203/2 <i>Cellular pathology</i>	5				CC/ OC			
4	PAB-204/1 Ecophysiology PAB-204/2 <i>Teaching about the environment</i>	5				CC/ OC			
5	PAB-405/1 Evolutionary Doctrine PAB-405/2 <i>Anthropology</i>	5				MC/ OC			
6	CT(DP 104/2) Educational (field) practice	1				CC/ UC			
7	C(PP)P 205/2 Educational (field) practice	1				CC/ UC			
7	SHDLO-7 Structure, heredity and development of living organisms	21				1	SHDLO -301/1 Human anatomy SHDLO -301/2 <i>Biology of individual development</i>	5	CC/ OC
			2	SHDLO -302/1 Genetics SHDLO -302/2 <i>Plant and animal breeding</i>	5	CC/ OC			
			3	SHDLO -303/1 Biochemistry SHDLO -303/2 <i>Basics of Enzymology</i>	6	CC/ OC			
			4	SHDLO -404/1 Molecular Biology SHDLO -404/2 <i>Biology of Nucleic Acids</i>	5	CC/ OC			
			8	TMCB -8	29	1	TMCB- -301 Methods of teaching chemistry	5	MC/ UC

	Theory and Methodology of Education		2	TMCB- -302 Methods of teaching biology	5	MC/ UC
			3	PP 303 Pedagogical Practice	6	CC/ UC
			4	P(P)P 404 Production (pedagogical) practice	16	MC/ UC
			5	P(P)P 405 Pre -diploma (pedagogical) practice	2	MC/ UC
9	FSR-9 Fundamentals of synthesis and research	14	1	FSR-401/1 Physico-chemical research methods	4	MC/ OC
			2	FSR-401/2 <i>Современные методы анализа</i>		
			3	FSR-402/1 Химическая технология	5	MC/ OC
			4	FSR-402/2 <i>Химическая технология неорганических веществ</i>		
			5	FSR-403/1 Химический синтез	5	MC/ OC
			6	FSR-403/2 <i>Методы синтеза новых химических веществ</i>		
10	Final certification	8	1	WDDP(P)PCE 401 Writing and defending a diploma paper (project) or passing a comprehensive exam	8	FA
TOTAL:		240			240	

