

2. CONTENT OF THE EDUCATIONAL PROGRAM

№	Code and name of modules	Total number of credits	№	Code and name of discipline	Academic credit of the discipline	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 Fundamentals of Legal Literacy and Anti-Corruption culture / 2. GES 106 Fundamentals of Ecology and Safe life / 3. GES 106 Fundamentals of Economics and Entrepreneurship / 4. GES 106 Fundamentals of Leadership and receptivity to innovation / 5. GES 106 Emotional Intellect 6. GES 106 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	22	1	GER 201 Inclusive Education	6	CC/ UC
	Global Ethics and Research module		2	GER 402/1 Fundamentals of Educational research	10	CC/ UC
			3	GER 303 Professional ethics and identity	6	MC/ UC
4	GPS – 4	21	1	GPS 201 Educational psychology	6	CC/ UC
	General pedagogical subjects module		2	GPS 202 Pedagogy and didactics	6	CC/ UC
			3	GPS 303 Criteria Assessment Technology	5	CC/ UC
			4	CT(I)P 104 Continuous training (introductory) practice	1	CC/ UC
			5	CT(I)P 105 Training and field practice (Educational)	1	CC/ UC
			6	C(PP)P 205 Continuous (psychological and pedagogical) practice	1	CC/ UC
			7	C(PP)P 206 Training and field practice (Educational)	1	CC/ UC
5	BPA -5 Biodiversity of plants and animals	31	1	BPA 101 Plant anatomy and morphology	5	CC/ UC
			2	BPA 102/1 Zoology of Invertebrates BPA 102/2 Entomology	6	CC/ OC
			3	BPA 203/1 Systematic of Plants BPA 203/2 Evolution of Plants and Animals Life	6	CC/ OC
			4	BPA 204/1 Zoology of Vertebrates BPA 204/2 Teriology	6	CC/ OC

			5	BPA 205/1 Cytology, histology and embryology	8	CC/ UC
6	SBB-6 Selected Branches of Biology	29	1	SBB 301/1 Human anatomy SBB 301/2 Biology of individual development	5	MC/ OC
			2	SBB 302 Genetics and Fundamentals of Molecular Biology	10	MC/ UC
			3	SBB 303/1 Biochemistry SBB 303/2 Basics of Enzymology	5	CC/ OC
			4	SBB 404/1 Evolutionary Doctrine SBB 404/2 Anthropology	5	MC/ OC
			5	SBB 405/1 Ecological education SBB 405/2 Teaching about the environment	4	CC/ OC
7	BPh-7 Fundamentals of Physiology	19	1	BPh 301/1 Plant physiology BPh 301/2 Physiology of Plant Resistance to Adverse Environmental Conditions	6	CC/ OC
			2	BPh 302/1 Human and Animal Physiology BPh 302/2 Age endocrinology	7	CC/ OC
			3	BPh 203/1 Age physiology BPh 203/2 Age morphology	6	MC/ OC
8	TTM -8 Theory and teaching methods	34	1	TTM 301 Methods of teaching in biology	10	MC/ UC
			2	PP 302	6	CC/ UC

	Theory and methods of teaching			Pedagogical Practice		
			3	PP 403 Production (pedagogical) practice	16	MC/ UC
			4	P(P)P 404 Pre -diploma (pedagogical) practice	2	MC/ UC
9	Minor Fundamentals of applied research in biology	15	1	(M) FARB 401 Basics of biotechnology	5	CC/ OC
			2	(M) FARB 402 Basics of Microbiology and Virusology	5	CC/ OC
			3	(M) FARB 403 Medical biology	5	CC/ OC
	Final examination	8		WDDP(P)PCE 401 Writing and defending a diploma paper (project) or passing a comprehensive exam	8	FA
TOTAL:				240		