

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 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 Global Ethics and Research module	22	1	GER 201 Inclusive Education	6	CC/ UC
			2	GER 402/2 Fundamentals of scientific research	10	CC/ UC

			3	GER 303 Professional ethics and identity	6	MC/ UC
4	BLO-4 Biodiversity of living organisms	42	1	BLO 201/1 Botany 201/2 Resources of medicinal plants	10	MC/OC
			2	BLO 102 Zoology of Invertebrates	5	CC/ UC
			3	BLO 103 Vertebrate zoology	6	CC/ UC
			4	BLO 304/1 Bioresources of Kazakhstan 304/2 World flora and fauna	7	CC/ OC
			5	BLO305 Phytobotany	5	CC/ UC
			6	BLO306 Chronobiology	5	CC/ UC
			7	TP 106 Training Practice	2	CC/ UC
			8	TP 207 Training Practice	2	CC/ UC
5	FAP -5 Fundamentals of anatomy and physiology	30	1	FAP 201/1 Human anatomy 201/2 Biology of individual development	6	CC/ OC
			2	FAP302 Human and animal physiology	10	CC/ UC
			3	FAP 403 Ecophysiology	4	CC/ UC
			4	FAP 204/1 Plant physiology 204/2 Biometry	6	MC/OC
				PP 305 Production practice	4	CC/ UC
6	STB -6 Scientific theories of biology	62	1	STB301 Molecular biology and genetics	10	CC/ UC
			2	STB302/1 Biotechnology 302/2 Cell Biotechnology	10	MC/OC
			3	STB 203/1 Biochemistry 203/ Basics of Enzymology	6	CC/ OC

			4	STB 304/1 Microbiology 304/2 Biotechnology of microorganisms	8	MC/OC
			5	STB 205 Fundamentals of Cytology and Histology	10	CC/ UC
			6	PP 406 Production practice	16	MC/ UC
			7	PPP 407 Pre -diploma (production) practice	2	MC/ UC
7	BR-7 Biologist - researcher	15	1	M (BR) 401 Discipline1	5	CC/ OC
			2	M (BR) 402 Discipline2	5	CC/ OC
			3	M (BR) 403 Discipline3	5	CC/ OC
8				WDDP(P)PCE 4** Writing and defending a diploma paper (project) or passing a comprehensive exam	8	FA
TOTAL:		240			240	