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**	**24**	1	**GER 201** Inclusive Education	6	CC/ UC

	Global Ethics and Research module		2	**GER 402/1** Fundamentals of Educational research	6	CC/ UC
				GER 402/2 Fundamentals of Educational research	4	CC/ UC
			3	**GER 303** Professional ethics and identity	6	MC/ UC
			4	**P(P)P 404** Pre -diploma (pedagogical) practice	2	MC/ UC
4	**GPS – 4** **General pedagogical subjects module**	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
			4	**CT(I)P 104** Continuous training (introductory) practice	2	CC/ UC
			5	**C(PP)P 205** Continuous (psychology and pedagogical) practice	2	CC/ UC
5	**TMFTM - 5** Theoretical and methodological foundations of teaching mathematics	47	1	**TMFTM 101/1** Elementary mathematics **TMFTM 101/2** Introductory course in Mathematics	5	CC/ OC
			2	**TMFTM 302** Methods of teaching Geometry	6	MC/ UK
			3	**TMFTM 303** Methods of teaching mathematics in basic school	6	MC/ UK
			4	**TMFTM 304/1** Methodological foundations of mathematical problem solving in 10-11 grades **TMFTM 304/2** Teaching methods for solving Olympiad problems	5	MC/ OC
			5	**TMFTM 405/1** History of mathematics **TMFTM 405/2** Works of great mathematicians	4	CC / OC
			6	**PP 306** Pedagogical practice	6	CC/ UC
			7	**P(P)P 407** Production (Pedagogical) practice	16	MC/ UC
6	**BFM - 6**	49	1	**BFM 101** Linear algebra and analytic geometry	6	CC/ UC

	The basis of fundamental mathematics		2	**BFM 202** Mathematical Analysis 1	6	CC/ UC
			3	**BFM 203** Mathematical Analysis 2	7	CC/ UC
			4	**BFM 304** Mathematical Analysis 3	7	CC/ UC
			5	**BFM 205/1** Algebra and Number Theory **BFM 205/2** Higher algebra	6	CC/ OC
			6	**BFM 306/1** Differential equations **BFM 306/2** Integral Equations	5	MC/ OC
			7	**BFM 207/1** Probability theory and mathematical statistics **BFM 207/2** Combinatorics and its applications	7	CC/ OC
			8	**BFM 308/1** Methods for solving construction problems **BFM 308/2** Differential geometry and topology	5	CC/ OC
7	**AAM - 7** Applied aspects of mathematics	15	1	**AAM 301/1** Physics **AAM 301/2** Mechanics	5	CC/ OC
			2	**AAM 302/1** Mathematical Literacy **AAM 302/2** Mathematical Logic and Discrete Mathematics	5	MC/ OC
			3	**AAM 403/1** Application packages in teaching mathematics **AAM 403/2** Fundamentals of mathematical modeling		
8	Minor Mathematical modeling	15	1	Discipline 1 M(MM)-401	5	CC/ OC
			2	Discipline 2 M(MM)-402	5	CC/ OC
			3	Discipline 3 M(MM)-403	5	CC/ OC
9	FA	8	1	**WDDP(P)PCE 401** Writing and defending a diploma paper (project) or passing a comprehensive exam	8	
	TOTAL:	**240**			**240**	