



## 2. CONTENT OF THE EDUCATIONAL PROGRAM

No	Code and name of modules	Total credits by module	No	Name of subject and code	Credits by subjects	Cycle/component
1	<b>GES -1</b>  <b>General educational subjects module</b>	36	1	<b>GES 101</b> History of Kazakhstan	5	GC/ CC
			2	<b>GES 102</b> Philosophy	5	GC/ CC
			3	<b>GES 103</b> Social and Political Knowledge Module (Sociology, Cultural Studies, Political Science, Psychology)	8	GC/ CC
			4	<b>GES 1(2)04</b> Physical Culture	8	GC/ CC
			5	<b>GES 205</b> Information and Communication Technologies	5	GC/ CC
			6	1. <b>GES 106/1</b> Fundamentals of Legal Literacy and Anti-Corruption culture 2. <b>GES 106/2</b> Fundamentals of Ecology and Safe life 3. <b>GES 106/3</b> Fundamentals of Economics and Entrepreneurship 4. <b>GES 106/4</b> Fundamentals of Leadership and receptivity to innovation 5. <b>GES 106/5</b> Emotional Intellect 6. <b>GES 106/6</b> Fundamentals of mathematical statistics	5	GC/ OC
2	<b>GLC -2</b>	25	1	<b>GLC 101</b> Kazakh (Russian) Language	10	GC/ CC
			2	<b>GLC 102</b> Foreign Language	10	GC/ CC



	<b>Language communication module</b>		3	<b>GLC 203</b> English for Academic Purposes	5	CC/ UC
<b>3</b>	<b>GER – 3</b>	<b>22</b>	1	<b>GER 201</b> Inclusive Education	6	CC/ UC
	<b>Global Ethics and Research module</b>		2	<b>GER 402/1</b> Fundamentals of Educational research	10	CC/ UC
		3	<b>GER 303</b> Professional ethics and identity	6	MC/ UC	
<b>4</b>	<b>GPS – 4</b> <b>General pedagogical subjects module</b>	<b>19</b>	1	<b>GPS 201</b> Educational psychology	6	CC/ UC
			2	<b>GPS 202</b> Pedagogy and didactic	6	CC/ UC
			3	<b>GPS 303</b> Criteria Assessment Technology	5	CC/ UC
			4	<b>C(PP)P 204</b> Continuous (psychology and pedagogical) practice	1	CC/ UC
			5	<b>C(PP)P 205</b> Educational and laboratory practice	1	
<b>5</b>	<b>TMFTMPHs - 5</b> Theoretical and methodological foundations of teaching mathematics and physics	<b>46</b>	1	<b>TMFTMPH 101/1</b> Elementary mathematics <b>TMFTMPH 101/2</b> Introductory course in Mathematics	5	CC/ OC
			2	<b>TMFTMPH 302</b> Methodology of teaching Mathematics	6	MC/ UC
			3	<b>TMFTMPH 303</b> Methodology of the teaching physics	6	MC/ UC
			4	<b>TMFTMPH 204/1</b> Technology of school physical experiment <b>TMFTMPH 204</b> Modeling physics processes	5	CC/ OC
			5	<b>CT(I)P 105</b> Continuous training (introductory) practice	1	CC/ UC



6	<b>BFMPH - 6</b> The basis of fundamental mathematics and physics	66	6	<b>CT(I)P 106</b> Training, solving mathematical problems practice	1	CC/ UC
			7	<b>PP 307</b> Pedagogical practice	6	CC/ UC
			8	<b>PP 408</b> Production (Pedagogical) practice	16	MC/ UC
			1	<b>BFMPH 101</b> Linear algebra and analytic geometry	6	CC/ UC
			2	<b>BFMPH 202</b> Mathematical Analysis 1	6	CC/ UC
			3	<b>BFM 203</b> Mathematical Analysis 2	5	CC/ UC
			4	<b>BFMPH 304</b> Mathematical Analysis 3	7	CC/ UC
			5	<b>BFMPH 205/1</b> Algebra and Number Theory <b>BFMPH 205/2</b> Higher algebra	5	CC/ OC
			6	<b>BFMPH 306/1</b> Differential equations <b>BFMPH 306/2</b> Integral equations	5	CC/ OC
			7	<b>BFMPH 307/1</b> Probability theory and mathematical statistics <b>BFMPH 307/2</b> Combinatorics and its applications	7	CC/ OC
			8	<b>BFMPH 408/1</b> Methods for solving construction problems <b>BFMPH 408/2</b> Differential geometry and topology	5	MC / OC
9	<b>BFMPH 409/1</b> Equations of mathematical physics <b>BFMPH 409/2</b> Variations and operational calculus	5	MC / OC			
10	<b>BFMPH 210/1</b> Mechanics <b>BFMPH 210/2</b> School physics	5	CC/ OC			
11	<b>BFMPH 311/1</b> Molecular Physics and Thermodynamics <b>BFMPH 311/2</b> Theory of propability in physics	6	CC/ OC			



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			12	<b>BFMPH 412/1</b> Atomic and nuclear physics <b>BFMPH 412/2</b> The beginnings of modern physics	4	CC/ OC
7	<b>AAMPh - 7</b> Applied aspects of mathematics and physics	18	1	<b>AAMPh 301/1</b> Optics <b>301</b> Theory of oscillations and waves	6	MC/ OC
			2	<b>AAMPh 402/1</b> Electricity and magnetism <b>AAMPh 402/2</b> The beginnings of electrodynamics and STR	5	MC/ OC
			3	<b>AAMPh 403/1</b> Bases of quantum mechanics <b>AAMPh 403/2</b> Physics of solids	5	MC/ OC
			4	<b>P(P)P 404</b> Pre -diploma (pedagogical) practice	2	MC/ UC
8	FA	8	1	<b>WDDP(P)PCE 401</b> Writing and defending a diploma paper (project) or passing a comprehensive exam	8	FA
<b>TOTAL:</b>		<b>240</b>			<b>240</b>	