

№ n/n	Title of the series, the integrated module, the academic discipline, and the course work	Exams	Tests	Number of academic hours						Distribution by courses and semesters																								Total credits	
				Total	Class hours	Of them				I year						II year						III year						IV year							
						Lectures	Laboratory classes	Practical lessons	Seminars	1 semester, 18 weeks			2 semester, 17 weeks			3 semester, 18 weeks			4 semester, 17 weeks			5 semester, 11 weeks			6 semester, 17 weeks			7 semester, 15 weeks			8 semester, 11 weeks				
										Total hours	Class hours	Credits	Total hours	Class hours	Credits	Total hours	Class hours	Credits	Total hours	Class hours	Credits	Total hours	Class hours	Credits	Total hours	Class hours	Credits	Total hours	Class hours	Credits	Total hours	Class hours	Credits		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	
3.	Series of special disciplines			5348	2554	1144	404	1006																											
	State component			3794	1732	804	296	632																											
3.1	Mathematical logic and discrete mathematics		2	64	42	22		20					64	42	2																			2	
3.2	Analytical geometry and plane transformations	1, 2, 3		478	214	106		108		158	72	4	162	70	5	158	72	4																13	
3.3	Methods of figures images and fundamentals of geometry	4		158	70	34		36								158	70	4																4	
3.4	Algebra	3, 4, 6	5	538	258	128		130								164	74	5	140	68	4	82	48	2	152	68	4							15	
3.5	Number theory	7		164	66	32		34																				164	66	4,5			4,5		
3.6	Mathematical analysis	1, 2, 3, 4		656	296	148		148		168	76	5	168	76	5	160	72	4	160	72	4													18	
3.7	Differential equations	6		148	70	34		36																148	70	4								4	
3.8	Methods of teaching mathematics	5, 6, 7	3,4	586	264	130	14	120								118	66	3	108	56	3	124	50	3	124	50	3	112	42	3				15	
3.9	Programming technologies and algorithms	4	2, 3	318	150	58	92						130	68	3,5	76	42	2	112	40	3													8,5	
3.10	Computer graphics and multimedia ⁶		1	164	74	26	48			164	74	6																						6	
3.11	Information systems and networks ⁷	7	6	238	128	36	92																108	68	3	130	60	3						6	
3.12	Methods of teaching informatics	5	4	202	100	50	50									76	46	2	126	54	3													5	
3.13	Course work ²			40																			40		1									1	
3.14	Course work ³			40																						40		1						1	
	Component of higher education institution			1554	822	340	108	374		198	110	6	126	68	4	92	58	3	92	58	3	132	58	3	280	146	7	196	122	6	438	202	12,5	44,5	
	Introduction to mathematics		1	100	58	28		30		100	58	3																						2,5	
	Differential geometry	6		116	50	24		26															116	50	3									3	
	Function theory	8		112	42	26		16																					112	42	3			3	
	Elementary mathematics and practical work on solving problems	5	2-4, 6	524	286	96		190					126	68	4	92	58	3	92	58	3	132	58	3	82	44	2							15	
	Computer networks	8		82	42	18	24																						82	42	3			3	
	Workshop on solving problems in informatics		7	64	42	14	28																				64	42	2					2	
	Integrated course of school mathematics		1	98	52	26		26		98	52	3																							3
	Workshop on methods of teaching mathematics		7	58	32			32																			58	32	2						2
	Computational methods and computer modeling		7	74	48	24	24																				74	48	2						2
	Theory of probabilities and mathematical statistics		8	112	48	20	10	18																						112	48	2,5			2,5
	Disciplines for student choice ⁴																																		
	Entertaining and Olympiad mathematical problems / Functional analysis / Solving complex and Olympiad problems in programming		6	82	52	28		24																		82	52	2							2
	Modern approaches to teaching students in mathematics / Formation of students' research skills in solving problems with parameters		8	50	26	14		12																						50	26	1			1
	Management of IT projects / Technologies of network pedagogical interaction		8	82	44	22	22																							82	44	3			3
4.	Additional types of training			82	40	24	16									82	40	3																	3
	Psychology of information perception		3	82	40	24	16									82	40	3																	3
	Physical Culture		/1-6	/392	/392			/392		/72	/72		/68	/68		/72	/72		/68	/68		/44	/44		/68	/68									

Study plan is developed on the basis of the standard curriculum on a specialty 1-02 05 01 Mathematics and informatics. Registration No A 02-01-001/тип.

Continuation of the curriculum on specialty 1-02 05 01 Mathematics and Informatics

Notes:

¹ Students who have shown the ability to research work are allowed to carry out and defend the thesis work instead of the state examination in the specialty.

² In 6 semester one course work is conducted on the student's choice in the following subjects: analytical geometry and plane transformations, methods of figures images and fundamentals of geometry, algebra, mathematical analysis, differential equations, computer graphics and multimedia, programming technologies and algorithms.

³ In 7th semester one course work on the student's choice is carried out in the following subjects: pedagogy, psychology, methods of teaching mathematics, methods of teaching computer science.

⁴ The list of disciplines on the student's choice is approved by the Council of the Belarusian State Pedagogical University.

⁵ As a supplement and change to the curriculum for the academic discipline "Foreign Language", the section "Professional English" is included.

⁶ As a supplement and change to the curriculum for the academic discipline "Computer Graphics and Multimedia," the section "Technologies for creating and processing multimedia" is included.

⁷ As a supplement and change to the curriculum for the academic discipline "Information Systems and Networks" a section "Web Technologies" is included.

Vice Rector for Academic Affairs, BSPU
V.V. Shlykov

«__» _____ 2018

APPROVED

Head of the educational-methodical department
V.A. Zaitsev

«__» _____ 2018

Vice Rector for Academic Affairs, BSPU

_____ V.M. Zelenkevich

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Dean, Physics and Mathematics Faculty

_____ S.I. Vasilets

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Head, Informatics and Methods of Teaching Informatics Department

_____ S.V. Vabishchevich

« ___ » _____ 2018

Recommended for approval by the Scientific and Methodological Council of the Belarusian State
Pedagogical University

Protocol No _____ от _____

Эксперт-нормоконтролер

методист УМУ

_____ S.A. Starodub

« ___ » _____ 2018