

№ by order	COURSE TITLES	labor intensity in credit units	Split up by terms			Total teaching load (acad. Hours)							Split up by courses and terms											
			Exams	Tests	Course works	Total work-load	Including in-class learning					Students' individual tasks	I year		II year		III year		IV year		V year		VI year	
							Total in-class learning	Lectures	Laboratory practicals	Practice	Seminars		1	2	3	4	5	6	7	8	9	10	11	12
													weeks of theoret. courses/ total											
18	18	18	16	18	18	18	12																	
23	29	23	29	23	29	22	30																	
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
	Module "Mathematics"																							
14	Mathematical Analysis	10.00	1,2,3			360	260	156				104	100	6,0	5,0	4,0								
15	Abstract Algebra and Analytic Geometry	4.00	2	1		144	106	70				36	38	5,0	1,0									
16	The Ordinary Differential Equations	2.00		2		72	48	32				16	24		3,0									
17	Probability Theory and Mathematical Statistics	2.00		3		72	54	18				36	18			3,0								
	Module "Chemistry"																							
18	General Chemistry and Chemistry of the Elements	7.00	1,2			252	172	104				68	80	6,0	4,0									
19	Practical Training in General Chemistry and Chemistry of the Elements	8.00		1,2		288	238		238			50	7,0	7,0										
20	Organic Chemistry	5.00	3			180	126	54				72	54		7,0									
21	Practical Training in Organic Chemistry	4.00		3		144	108		108			36			6,0									
22	Methods of Analysis of Substances and Materials	4.00	4			144	96	48				48	48				8,0							
23	Practical Training in Methods of Analysis of Substances and Materials	2.00		4		72	48		48			24				4,0								
24	Electrochemistry	2.00	7			72	36	18				18	36						2,0					
25	Chemical Thermodynamics and Kinetics	4.00	5			144	84	60				24	60				7,0							
	Module "Physics"																							
26	The Quantum Physics	5.00	4	4		180	112	64				48	68			7,0								
27	The Statistical Physics	3.00	5			108	54	36				18	54				3,0							
	Module "Mechanics"																							
28	Theoretical Mechanics	3.00	4			108	64	32				32	44			4,0								
		34.00				1224	682	324	136			222	542											
	Module "Chemistry of materials"																							
29	Chemistry and Physics of Polymers	3.00	4	4		108	52	16	20			16	56			13,0								
30	Structural Chemistry and Crystal Chemistry	4.00	6			144	96	48				48	48				6,0							
31	Physics and Chemistry of Dispersed Systems	3.00	7			108	72	36	36			36						4,0						
	Module "Physics of the condensed matter"																							
32	Physics of Magnetic Materials and Insulators	3.00	7			108	54	36				18	54						3,0					
33	Physics of solid state and semiconductors	6.00	6			216	120	75				45	96				8,0							
	Module "Mechanics of materials"																							
34	Physical-Mechanical Practical Training	5.00		6,8		180	80		80			100					2,0		4,0					
35	Mechanics of a Stressed Solid	3.00	6			108	64	32				32	44				4,0							
	Molule "Engineering of materials"																							
36	Physics, Chemistry and Technology of Materials	2.00	8			72	36	27				9	36							4,0				
	Module "Mechanics of materials"																							
37	Introduction to mechanics of materials and hydromechanics	5.00	5			180	108	54				54	72				6,0							
		#####				2164	1028	495	65	272	196	1136												
		#####				544	308	36		272		236												
38		2.00		5,6		72	36	36				36					1,0	1,0						
39	Fundamentals of Scientific Translation	4.00		5		144	72				72	72					4,0							
40	Elective courses of physical training and sports	0000119		2,3,4		328	200				200	128		4,0	4,0	4,0								
		17.00				612	275	163				112	337											
41	Materials: Past, Present, Future	4.00	1,2			144	59	59				85	3,0	2,0										
42	Equations of Mathematical Physics	3.00	4			108	48	16				32	60				3,0							
43	Theory of Functions of Complex Variable	3.00	4			108	48	16				32	60				3,0							
44	Phase equilibriums and thermodynamics of solid state reactions	3.00	5			108	48	36				12	60				8,0							
45	Modern Inorganic Chemistry	4.00	7			144	72	36				36	72						4,0					
		28.00				1008	445	296	65			84	563											
46	Fundamentals of X-ray Diffractometry	4.00	6			144	80	32	16			32	64				5,0							
47	Mechanical Models	2.00		6		72	32	16				16	40				2,0							
48	Numerical Methods in Mechanics	4.00	7			144	72	36				36	72						4,0					
49	Experimental Methods of Physics of the Condensed Condition	2.00	8			72	39	26	13			33										3,0		
50		2.00		7		72	36		36			36										2,0		
51	General Professional Disciplines at the Choice of	14.00		7,7,8,8,8		504	186	186				318								6,0	8,0			
		25.00				900						900												
		21.00				756						756												
52	educational scientific research practice	17.00	4	1,3,5,6,7		612						612	0,0		0,0	0,0	0,0	0,0	0,0					
53	Pre-diploma	4.00		8		144						144										0,0		
		4.00				144						144												
54		4.00			2	144						144		0,0										

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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	
		9.00				324						324													
		3.00				108						108													
55	Interdisciplinary exam in chemistry, physics and mechanics of materials	3.00	8			108						108								0,0					
		6.00				216						216													
56	defence of a qualification thesis in Chemistry, Physcs and Mechanics of Materials	6.00	8			216						216								0,0					
	according to the main sub-plan	Theoretical courses (total number of academic hours excluding physical course, training and optional courses)				8968	4872	2015	595	1096	1166	4096	43,0	45,0	41,0	56,0	40,0	37,0	31,0	23,0	0,0	0,0	0,0	0,0	
	Total credits per semester					8968	4872	2015	595	1096	1166	4096	43,0	45,0	41,0	56,0	40,0	37,0	31,0	23,0	0,0	0,0	0,0	0,0	
	Weekly load per semester												30,0	30,1	29,1	31,1	30,0	30,0	30,0	30,0					
	Number of course works					1							1,3	1,0	1,3	1,1	1,3	1,0	1,4	1,0					
	Number of examinations					39	Labor intensity in credit units						240,3	3	5	3	8	5	4	6	5				
	Number of term tests					51							7	6	7	6	6	7	6	6					