

MOSCOW AVIATION INSTITUTE (NATIONAL RESEARCH UNIVERSITY)

CURRICULUM

Year of Application 2018/19
 Direction of Training 24.04.01 Rocket Complexes and Cosmonautics
 Graduate Program 24.04.01.M2 Aerospace Technology

Graduation Department 601
 Degree Master
 Form of Attendance Intramural
 Program Duration 2 years

Year	Weeks																																																				Contact hours	Exam. Session	Practice State Final Certification	Holidays	TOTAL				
	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	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52									
1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	33	7		8	48				
2	32	5	6	13	56
3	=	=	=	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Designations:	Contact Hours		Examination		Practice		Final Project		Holidays		Final State Certification		Contact hours and Distributed Practice		65	12	6	21	104																																										
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Course Supporting Department	#	Item	Semesters					Total hours							
			Examination	Assessments	Course Projects	Course Works	Number of Credits	Total	Contact Hours				SIW	Preparation for Examination	
									Total	Including					
										Lectures	Laboratory Tutorials	Tutorials			SIWA
		Block 1. Courses					60	2 160	958	430	184	344		914	288
		General Studies					18	648	266	82		184		346	36
		Primary Courses					10	360	154	22		132		206	
ДП1	1	Russian Language		1,2,3			8	288	116	2		114		172	
517	2	Phylosophy and Methodology of Science and Technology		2			2	72	38	20		18		34	
		Specialised Courses					8	288	112	60		52		140	36
505	3	Project Management		2			2	72	38	20		18		34	

208	4	Numerical Methods	2				3	108	38	20		18		34	36
		Electives					3	108	36	20		16		72	
601	5.1	Spaceflight Theory		3		3	3	108	36	20		16		72	
601	5.2	Flight Dynamics		3		3	3	108	36	20		16		72	
		Applied Studies					42	1 512	692	348	184	160		568	252
		Primary Courses					8	288	120	32	12	76		132	36
601	6	Scientific Seminar on Space Technology		3,4			4	144	64			64		80	
201	7	Continuum Mechanicas	2				4	144	56	32	12	12		52	36
		Specialised Courses					34	1 224	572	316	172	84		436	216
601	8	Space Systems Engineering	3	4		4	7	252	114	62		52		102	36
903	9	Structural Materials Technology	1				3	108	42	34	8			30	36
601	10	Manufacturing Processes of Aerospace Structures		2			3	108	56	44		12		52	
101	11	Basics of Aerospace Structures, Part 1	1				3	108	42	30	12			30	36
601	12	Basics of Aerospace Structures, Part 2	2				3	108	56	36		20		16	36
602	13	Structural Strength		1			3	108	42	30	12			66	
		Electives					12	432	220	80	140			140	72
601	14.1	Structure Engineering		3		3	3	108	54	42	12			54	
601	14.2	Composite Structure Engineering		3		3	3	108	54	42	12			54	
203	15.1	Computer Aided Analysis and Modelling	2				4	144	76	20	56			32	36
601	15.2	Computer Aided Engineering	2				4	144	76	20	56			32	36
601	16.1	Information Technologies in Space Vehicle Design	3				5	180	90	18	72			54	36
601	16.2	Computer Aided Design Technologies	3				5	180	90	18	72			54	36
		Block 2. Practice					51	1 836						1 836	
		Practice and Research					51	1 836						1 836	
		Learning Practice					18	648						648	
601		Professional Practice		3			6	216						216	
601		Research Practice		2			6	216						216	
601		Introduction Learning Practice		1			6	216						216	
		Production Practice					6	216						216	
601		Pre-Graduate Practice		4			6	216						216	
		Research Activity					27	972						972	
601		Research in Semester		1,2,3,4			27	972						972	
		Block 3. Final State Certification					9	324						324	
601		Final State Certification					9	324						324	
		Total					120	4 320							
		Total per Semesters, Hours						4 320	958	430	184	344		3 074	288

