

APPROVED

MINISTRY FOR EDUCATION AND SCIENCES, RUSSIAN FEDERATION
MOSCOW AVIATION INSTITUTE (NATIONAL RESEARCH UNIVERSITY)

CURRICULUM

Year of Application 2018/19
 Direction of Training 24.04.05 Aircraft and Spacecraft Engines
 Graduate Program 24.04.05.M49 Air Jet Propulsion Systems Engineering

Graduation Department 203
 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	8		7	48			
2	32	8	6	10	56
3	=	=	=	=	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Designations:						□	□	X	□	□	□	□				□	□											65	16	6	17	104																													

Course Supporting Department	#	Item	Semesters					Total hours						SIW	Preparation for Examination
			Examination	Assessments	Course Projects	Course Works	Number of Credits	Total	Contact Hours						
									Total	Including					
										Lectures	Laboratory Tutorials	Tutorials	SIWA		
		Block 1. Courses													
		General Studies													
		Primary Courses													
И-11	1	Foreign Language 3		1,2			4	144	66			66		78	
517	2	Philosophy and Methodology of Science and Technology		1			2	72	28	28				44	
812	3	Selected Chapters of Higher Mathematics	2	1			6	216	84	50		34		96	
201	4	Viscous Fluid Dynamics	1				4	144	56	34		22		52	
201	5	Air Jet Engines Analysis	2				3	108	56	34		22		16	
203	6	CAD/CAE Tools	1	2			7	252	98	58		40		118	

505	7	Project Management		2		3	108	56	34		22		52	
207	8	Test Planning		2		4	144	56	34		22		88	
203	9	Fracture Mechanics		2		3	108	56	34		22		52	
		Specialised Courses												
		Electives												
		Applied Studies				24	864	382	120		262		338	144
		Primary Courses				12	432	204	44		160		192	36
203	10	Advanced Air Jet Engines Systems and Components Structure	4			3	108	42	24		18		30	36
203	11	Scientific Seminar on Gas Turbine Engines		3		2	72	36			36		36	
205	12	Air Jet Engine Components Manufacturing and Assembly Processes		3		3	108	54	20		34		54	
203	13	CAD Tools Application for Air Jet Propulsion Systems		3		4	144	72			72		72	
		Specialised Courses				12	432	178	76		102		146	108
203	14	Air Jet Engines Design for Resource	4			3	108	42	20		22		30	36
203	15	Air Jet Engines Testing		4		3	108	28	16		12		80	
		Electives				6	216	108	40		68		36	72
203	16.1	Vibration of Air Jet Engine Components	3			3	108	54	20		34		18	36
203	16.2	Vibration of Air Jet Engine Rotor Systems	3			3	108	54	20		34		18	36
203	17.1	Strength of Advanced Air Jet Engines Components	3			3	108	54	20		34		18	36
203	17.2	Strength of Air Jet Engines Components	3			3	108	54	20		34		18	36
		Block 2. Practice				51	1 836						1 836	
		Practice and Research				51	1 836						1 836	
		Learning Practice				12	432						432	
203		Learning Research Practice		2		6	216						216	
203		Learning Introductory Practice		1		6	216						216	
		Production Practice				15	540						540	
203		Pre-Graduate Practice		4		9	324						324	
203		Research Practice		3		6	216						216	
		Research Activity				24	864						864	
203		Research in Semester		1,2,3,4		24	864						864	
		Block 3. Final State Certification				9	324						324	
203		Final State Certification				9	324						324	
		Total				120	4 320							
		Total Per Semester, Hours					4 320	938	426		512		3 094	288

