

MOSCOW AVIATION INSTITUTE (NATIONAL RESEARCH UNIVERSITY)

CURRICULUM

Year of Application 2018/19
 Direction of Training 24.04.05 Aircraft and Spacecraft Engines
 Graduate 24.04.05.M51 Air Jet Engines Thermophysocs and Gas Dynamics

Graduation Department 204
 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	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	65	16			104	

Designations: Contact Hours [] Examination [] Practice [X] Final Project [//] Holidays [=] Final State Certification [Γ] Contact hours and Distributed [.]

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	928	456	84	388		980	252
		General Studies					36	1 296	556	306		250		596	144
		Primary Courses					36	1 296	556	306		250		596	144
И-11	1	Foreign language 3		1,2			4	144	66				66		78
517	2	Phylosophy and Methodology of Science and Technology		1			2	72	28	28					44
812	3	Selected Chapters in 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 Engine Engineering	2				3	108	56	34			22		16
204	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	372	150	84	138		384	108
		Primary Courses					16	576	244	98	52	94		224	108
204	10	Matter Thermophysocal Properties Theory	3				3	108	54	18		36		18	36
204	11	Basics of Heat Engineering Theory	3				3	108	54	18		36		18	36
204	12	Air Jet Engines Chamber Internal Processes		3		3	3	108	54	24	8	22		54	
204	13	CFD Tools	4	3			7	252	82	38	44			134	36
		Specialised Courses					8	288	128	52	32	44		160	
		Electives					8	288	128	52	32	44		160	
204	14.1	Numerical Simulation in Thermophysics		4			4	144	56	16	16	24		88	
204	14.2	Heat and Mass Exchange Numerical Simulation		4			4	144	56	16	16	24		88	
204	15.1	Selected Chapters on Thermophysics and Continuum Mechanics		3			4	144	72	36	16	20		72	
204	15.2	Convection-Radiation Heat Exchange in Turbulent Flow		3			4	144	72	36	16	20		72	
		Block 2. Practice					51	1 836						1 836	
		Practice and Research					51	1 836						1 836	
		Learning Practice					18	648						648	
204		Learning Research Practice		2			6	216						216	
204		Learning Introductory Practice		1			6	216						216	
204		Production Practice		3			6	216						216	
		Pre-Graduate Practice					9	324						324	
204		Research Practice		4			9	324						324	
		Research Activity					24	864						864	
204		Research in Semester		1,2,3,4			24	864						864	
		Block 3. Final State Certification					9	324						324	
		Final State Certification					9	324						324	
		Total					120	4 320							
		Total Per Semester, Hours						4 320	928	456	84	388		3 140	252

