

CURRICULUM
09.04.02 Information systems and technologies
Master's Program Analysis and synthesis of information systems

Courses	Semester	Credits (hours)	Credit hours			Progress Evaluation
			Total	including		
				Lectures	Practical classes	
Design of information systems, a course work	2, 3	10 (360)	126	36	90	exam
Fundamentals of scientific research	1	5 (180)	72	18	54	exam
Russian language	1	6 (216)	108	18	90	pass/fail exam
Information security and protection of information	1	5 (180)	54	18	36	exam
Intelligent information systems	2	4 (144)	54	18	36	exam
Management of IT-projects	3	5 (180)	90	18	54	exam
Technologies of database design, a course work	1, 2	8 (288)	90	36	54	exam
Methods of research and modeling of information processes and systems	1	4 (144)	54	18	36	exam
Object-oriented programming in Web development	2	3 (108)	54	18	36	pass/fail exam
Technologies of device applications development						
Operating systems	3	3 (108)	54	18	36	pass/fail exam
Fundamentals of system programming						
Foundations of data mining	3	5 (180)	72	36	36	exam.
Data Mining methods						
Network technologies	3	5 (180)	54	18	54	exam.
Fundamentals of computer networking						
Research work	1-3	21 (756)				pass/fail exam*
Internship on acquiring primary professional skills	2	6 (216)		4 weeks		pass/fail exam*
Internship on computer systems design	4	15 (540)		10 weeks		pass/fail exam*
Research internship	4	9 (324)		6 weeks		pass/fail exam*
Graduation Certification	4	6 (216)		4 weeks		
Total		120 (4320)	882	270	612	

Pass/fail exam* - Graded exam