CURRICULUM

For 08.04.01 *Civil Engineering*

Master's Program *Resources Conservation and Environmental Safety in Civil Engineering*

Courses	Semester	Credits (hours)	Credit hours	including		Progress Evaluation
			Total	Lectures	Practical classes	
Methods for solving scientific and engineering problems in civil engineering	1,2	5 (180)	90	36	54	Pass/fail exam
Information technologies in civil engineering	3	3 (108)	54	18	36	Pass/fail exam
Structural design and analysis of buildings	1	4 (144)	36	18	18	Exam exam
Efficiency of innovations and innovative technologies in civil engineering	3	3 (108)	54	18	36	Pass/fail exam

Russian language	1	6 (216)	108	18	90	Pass/fail exam
Resources conservation and environmental safety in structural engineering, a term paper	1,2	9 (324)	90	36	54	exam
Technogenic accidents in civil engineering	2	3 (108)	54	18	36	exam
Research methods and forecasting of main performance characteristics of building materials, a course work	2	5 (180)	54	18	36	exam
Design and production of environmentally friendly building materials, a course work	3	7 (252)	54	18	36	exam
Assessment methodology of environmental safety of construction projects Environmental safety in civil engineering	3	3 (108)	54	18	36	Pass/fail exam
Global experience of complying with environmental standards in civil engineering Modern global tendencies in the sphere of environmental safety in civil engineering	1	6 (216)	72	18	54	exam
Engineering and ecological surveys and environmental monitoring in civil engineering Methods for the analysis of construction impact on the environment	3	6 (216)	54	18	36	exam
Experimental research work	1	8 (288)				*Pass/fail exam**
Industrial placement	2	8 (288)		5 1/3 weeks		*Pass/fail exam**

Computer-aided construction internship	3	8 (288)		5 1/3 weeks	*Pass/fail exam**
Work experience internship	2	6 (216)		4 weeks	*Pass/fail exam**
Research internship	4	24 (864)		16 weeks	*Pass/fail exam**
Graduation Certification	4	6 (216)		4 weeks	
Total		**120 (4320)**	**774**	**252 522**	

Pass/fail exam* - Graded exam