

Study program: Civil engineering-Geomechanics

Semester I				
Required subject				
Code	Subject	ECTS	Hours per week	Total hours
2FI100112	Math 1	8	3+2+2	216
2FP119612	Physics	8	3+2+2	216
UGD101312	Informatics	6	2+2+1	156
	Optional subject from faculty	4	2+1+1	120
	Optional subject from faculty	4	2+1+1	120
Total:		30	12+8+7	828

Optional subject from faculty

2FP160412 - Descriptive geometry with drafting
 2FP100912 - Engineering graphics
 2FP114012 - Engineering geology and hydrogeology
 2FP150112 - Introduction to construction

Semester II				
Required subject				
Code	Subject	ECTS	Hours per week	Total hours
2MF100212	Technical mechanics 1	8	3+2+2	216
2FI100412	Math 2	6	2+2+1	156
2FP150312	Construction materials 1	6	2+2+1	156
	Optional subject from faculty 3	4	2+1+1	120
	Foreign language 1	6	2+2+1	156
	Sports and Recreation		0+0+2	24
Total:		30	11+9+8	828

Optional subject from faculty:

2FP119312 – Geology and petrology
 2FP101512 – Numerical methods

Semester III				
Required subject				
Code	Subject	ECTS	Hours per week	Total hours
2MF100412	Strength of materials	8	3+2+2	216
2FP116912	Geomechanics	6	2+2+1	156
2MF100612	Technical mechanics 2	8	3+2+2	216
	Optional subject from faculty 4	4	2+1+1	120
	Optional subject from faculty 5	4	2+1+1	120
Total:		30	12+8+7	828

Optional subject from faculty:

2FP150512 – Infrastructure facilities - basis
 2FP119412 - Geophysics
 2FP130212 – Quality systems and standards
 2FP152012 – Stability of field

Semester IV				
Required subject				
Code	Subject	ECTS	Hours per week	Total hours
2FP103512	Mechanics of Soils	8	3+2+2	216
2FP104012	Rock mechanics	6	2+2+1	156
2FP116512	Engineering geophysics	6	2+2+1	156
	Optional subject from faculty 6	4	2+1+1	120
	Optional subject from university 2	6	2+2+1	156
Total:		30	11+9+6	804

Optional subject from faculty:

2FP101812 - Surveying
 2FP150912- Project and technical documentation

Semester V				
Required subject				
Code	Subject	ECTS	Hours per week	Total hours
2FP152112	Geotechnical objects 1	8	3+2+2	216
2FP152212	Geotechnological methods 1	8	3+2+2	216
2FP152312	Theory of elasticity	6	2+2+1	156
	Optional subject from faculty 7	4	2+1+1	120
	Optional subject from faculty 8	4	2+1+1	120
Total:		30	12+8+7	828

Optional subject from faculty:

2FP152412 – Reclamation and recultivation of soil
 2FP123212- Occupational Safety and Health
 2FP152512 - Foundation

Semester VI				
Required subject				
Code	Subject	ECTS	Hours per week	Total hours
2FP152612	Geotechnical objects 2	8	3+2+2	216
2FP152712	Geotechnological methods 2	6	2+2+1	156
2FP132612	Final exam	6	2+2+1	156
	Optional subject from faculty 9	4	2+1+1	120
	Optional subject from university 3	6	2+2+1	156
Total:		30	11+9+6	804

Optional subject from faculty:

- 2FP152812 – Dynamics of groundwater
- 2FP152912 – Hydro-technical objects

Optional subject from university:

Code	<i>Optional subject from university (for 180/240 ECTS are selected 3/4 subjects)</i>			
First year				
UGD100112	Foreign language 1 – English 1*	6	0+0+4	156
UGD100212	Foreign language 1- Italian 1*	6	0+0+4	156
UGD100312	Foreign language 1- German 1*	6	0+0+4	156
UGD100412	Foreign language 1– French 1*	6	0+0+4	156
UGD100512	Foreign language 1- Spanish 1*	6	0+0+4	156
UGD100612	Foreign language 1 - Russian 1*	6	0+0+4	156
Second year				
UGD100712	Foreign language 2 – English 2**	6	0+0+4	156
UGD100812	Foreign language 2 – Italian 2**	6	0+0+4	156
UGD100912	Foreign language 2 - German 2**	6	0+0+4	156
UGD101012	Foreign language 2 – French 2**	6	0+0+4	156
UGD101112	Foreign language 2 – Spanish 2**	6	0+0+4	156
UGD101212	Foreign language 2 – Russian 2**	6	0+0+4	156
Third year				
UGD101412	Math	6	2+2+1	156
UGD101512	Phylosophy	6	2+2+1	156
UGD101612	Ethics	6	2+2+1	156
UGD101712	Macedonian	6	2+2+1	156
UGD101812	Entrepreneurship	6	2+2+1	156
UGD101912	Environmental protection	6	2+2+1	156
UGD102812	Contractual right	6	2+2+1	156
Fourth year				
UGD102212	Fundamentals of Tourism	6	2+2+1	156
UGD102312	Eart scieance	6	2+2+1	156
UGD102412	Physics	6	2+2+1	156
UGD102512	Biology	6	2+2+1	156
UGD102612	Health care	6	2+2+1	156
UGD102012	History of Art	6	2+2+1	156
UGD102112	National History	6	2+2+1	156