

Study program: Environmental engineering

Semester I				
Required subject				
Code	Subject	ECTS	Hours per week	Total hours
2FI100112	Math 1	8	3+2+2	216
2FP100212	Physics 1	8	3+2+2	216
UGD101312	Informatics	6	2+2+1	156
	Optional subject from faculty 1 (Groupe A)	4	2+1+1	120
	Optional subject from faculty 2 (Groupe B)	4	2+1+1	120
Total:		30	12+8+7	828

Optional subject from faculty:

Groupe A

2FP120112 Geoenvironmental

2FP120212 Fundamentals of ecology and ecosystems

Groupe B

2FP120312 Internet

2FP110112 Principles in geology

Semester II				
Required subject				
Code	Subject	ECTS	Hours per week	Total hours
2FP120412	Geochemistry	8	3+2+2	216
2FP133312	Statistics	6	2+2+1	156
2FP120512	Global ecological processes	6	2+2+1	156
	Optional subject from faculty 3	4	2+1+1	120
	Foreign language 1	6	2+2+1	156
UGD102712	Sports and Recreation		0+0+2	48
Вкупно:		30	11+9+8	852

Optional subject from faculty:

2FP101112 Physics 2

2FP100912 Engineering graphics

Semester III				
Required subject				
Code	Subject	ECTS	Hours per week	Total hours
2FP120612	Engineering of ecological processes	8	3+2+2	216
2FP120712	Rocks and Environment	8	3+2+2	216
2FP120812	Soils exploration	6	2+2+1	156
	Optional subject from faculty 4 (Groupe A)	4	2+1+1	120
	Optional subject from faculty 5 (Groupe B)	4	2+1+1	120
Total:		30	12+8+7	828

Optional subject from faculty:

Groupe A

2FP101512 Numerical methods

2FP120912 Technical materials

Groupe B

2FP121012 Climate and Energy

2FP140912 Geoecology

Semester IV				
Required subject				
Code	Subject	ECTS	Hours per week	Total hours
2FP121112	Hydrogeology	8	3+2+2	216
2FP121212	Industrial processes	6	2+2+1	156
2FP121312	Instrumental methods	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:

2FP121412 Quality systems and standards

2FP111312 Seismotectonics

Semester V				
Required subject				
Code	Subject	ECTS	Hours per week	Total hours
2FP121512	Air Pollution	8	3+2+2	216
2FP121612	Wastewater treatment	8	3+2+2	216
2FP121712	Deposits of rare and disseminated elements	6	2+2+1	156
	Optional subject from faculty 7 (Groupe A)	4	2+1+1	120
	Optional subject from faculty 8 (Groupe B)	4	2+1+1	120
Total:		30	12+8+7	828

**Optional subject from faculty:
Groupe A**

2FP121812 Occupational Safety and Health
2FP121912 Hydro - informatics

Groupe B

2FP106312 Environmental Protection Laws
2FP151112 Project and Technical Documentation

Semester VI				
Required subject				
Code	Subject	ECTS	Hours per week	Total hours
2FP122012	Municipal waste management	8	3+2+2	216
2FP122112	Hazardous Waste Management	6	2+2+1	156
2FP122212	Assessment of environmental impact	6	2+1+1	120
	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:

2FP107112 Recycling technology
2FP132012 Mining and technological wastes

Semester VII				
Required subject				
Code	Subject	ECTS	Hours per week	Total hours
2FP122312	Environmental management projects	8	3+2+2	216
2FP122412	Design of landfills	8	3+2+2	216
2FP122512	Environmental noise	6	2+2+1	156
	Optional subject from faculty 7 (Groupe A)	4	2+1+1	120
	Optional subject from faculty 8 (Groupe B)	4	2+1+1	120
Total:		30	12+8+7	828

Optional subject from faculty:

Groupe A

2FP122612 Transport of Dangerous Goods

2FP122712 Electronic waste

Groupe B

2FP122812 Transport of minerals across environmental

2FP122912 Remediation of groundwater and geo environments

Semester VIII				
Required subject				
Code	Subject	ECTS	Hours per week	Total hours
2FP123012	Ecological economy	6	2+2+1	156
2FP123112	Assessment of ecological risk	6	2+2+1	156
	Optional subject from faculty 9	4	2+1+1	120
	Optional subject from university 4	6	2+2+1	156
2FP106812	Diploma	8	0+0+8	192
Total:		30	8+7+12	780

Optional subject from faculty:

2FP118312 GIS

2FP123212 Electromagnetic smog

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