

# MASTER OF SCIENCE IN GEOGRAPHY

## Curriculum

### Landscape and Environmental Management specialization

#### Outline credits to be earned

I. Compulsory basic courses	12 credits
II. Compulsory core courses	32 credits
III. Specific courses in Landscape and Environmental Management	40 credits
IV. Elective courses	6 credits
V. Thesis work	30 credits
<b>Total</b>	<b>120 credits</b>

#### I. Compulsory basic courses

Courses	ECTS	Hours	Type	Responsible Department	Instructor
<b>Semester 1</b>					
Environmental Informatics	1+3	1+3	L+P	Geoinf&Phys& Env.Geo	<i>Dr. Kovács F. Dr. Szatmári J., Dr. Tobak Z., Dr. van Leeuwen B.</i>
Geographical Epistemology	3	2	L	Econ.&Soc.Geo.	<i>Dr. Kovács Z.</i>
Research Methods in Earth Sciences	2	2	P	Geoinf&Phys& Env.Geo	<i>Dr. Mezősi G.</i>
<b>Semester 2</b>					
Modelling and Simulation	1+2	1+2	L+P	Geoinf&Phys& Env.Geo	<i>Dr. Mucsi L., Dr. Szatmári J., Dr. Tobak Z., Dr. van Leeuwen B.</i>

#### II. Compulsory core courses

Courses	ECTS	Hours	Type	Responsible Department	Instructor
<b>Semester 1</b>					
Environmental Risk Assessment	3	2	L	Geoinf&Phys& Env.Geo	<i>Dr. Ladányi Zs.</i>
Environmental Geography	3	2	L	Geoinf&Phys& Env.Geo	<i>Dr. Sipos Gy.</i>
Environmental System	3+1	2+1	L+P	Geoinf&Phys& Env.Geo	<i>Dr. Kiss T.</i>
Landscape Planning	3	2	L	Geoinf&Phys& Env.Geo	<i>Dr. Mezősi G., Dr. Szilassi P.</i>
Political geography of the world economy	3+2	2+2	L+P	Econ.&Soc.Geo.	<i>Dr. Boros L., Dr. Fabula Sz.</i>
Space and Society	3+1	2+1	L+P	Econ.&Soc.Geo.	<i>Dr. Kovács Z., Dr. Nagy Gy.</i>

<b>Semester 2</b>					
Regional Policy and Regional Development	3+2	2+2	L+P	Econ.&Soc.Geo.	<i>Dr. Hegedűs G.</i>
Presentation Skills	2	2	P	Econ.&Soc.Geo.	<i>Dr. Kovács Z., Dr. Nagy Gy.</i>
Social Geography	3	2	L	Econ.&Soc.Geo.	<i>Dr. Bajmócy P.</i>

### **III. Specific courses in Landscape and Environmental Management**

<b>Courses</b>	<b>ECTS</b>	<b>Hours</b>	<b>Type</b>	<b>Responsible Department</b>	<b>Instructor</b>
<b>Semester 2</b>					
Environmental Protection in Practice	0+3		P	Geoinf&Phys&Env.Geo	<i>Dr. Ladányi Zs.</i>
Sectorial Planning	3+2		L+P	Econ.&Soc.Geo.	<i>Dr. Fabula Sz., Dr. Vida Gy.</i>
Project Management	4+0	3	L	Econ.&Soc.Geo.	<i>Dr. Bajmócy P., Dr. Nagy Gy.</i>
Projectwork	0+3	3	P	Geoinf&Phys&Env.Geo Econ.&Soc.Geo.	<i>Dr. Kovács F., Dr. Lados G.</i>
<b>Semester 3</b>					
Environmental planning models	2+3	1+3	L+P	Geoinf&Phys&Env.Geo	<i>Dr. Barta K., Dr. Szatmári J.</i>
Hydrological planning	3+2	2+2	L+P	Geoinf&Phys&Env.Geo	<i>Dr. Kiss T., Dr. Blanka-Végi V.</i>
Visualization	2	2	P	Geoinf&Phys&Env.Geo	<i>Dr. van Leeuwen, B., Dr. Tobak Z., Dr. Szatmári J.</i>
Environmental monitoring	3	2	L	Geoinf&Phys&Env.Geo	<i>Dr. Blanka-Végi V., Dr. Sipos Gy., Dr. Farsang A.</i>
<b>Semester 4</b>					
Vegetation analysis and evaluation	3+2	2+2	L+P	Clim.&Lands.Ecol.	<i>Dr. Gulyás Á., Dr. Kiss M.</i>
Internship	5	6 weeks	P	Econ.&Soc.Geo.	

### **IV. Elective courses**

<b>Courses</b>	<b>ECTS</b>	<b>Hours</b>	<b>Type</b>	<b>Responsible Department</b>	<b>Instructor</b>
<b>Semester 2</b>					
Offered elective courses	3	2	L	Geoinf&Phys&Env.Geo Econ.&Soc.Geo. Clim. & Landsc.Ecol. Miner.Geochem&Petr.	<i>any lecturer</i>
<b>Semester 3</b>					
Offered elective courses	3	2	L	Geoinf&Phys&Env.Geo Econ.&Soc.Geo. Clim. & Landsc.Ecol. Miner.Geochem&Petr.	<i>any lecturer</i>

## V. Thesis work

Courses	ECTS	Hours	Type	Responsible Department	Instructor
<b>Semester 3</b>					
Thesis work 1	10	10	P	Geoinf&Phys&Env.Geo	<i>any lecturer</i>
<b>Semester 4</b>					
Thesis work 2	20	20	P	Geoinf&Phys&Env.Geo	<i>any lecturer</i>

## Regional and Urban Planning specialization

### Outline credits to be earned

I. Compulsory basic courses	12 credits
II. Compulsory core courses	32 credits
III. Specific courses in Regional and Urban Planning	40 credits
IV. Elective courses	6 credits
V. Thesis work	30 credits
<b>Total</b>	<b>120 credits</b>

### I. Compulsory basic courses

Courses	ECTS	Hours	Type	Responsible Department	Instructor
<b>Semester 1</b>					
Environmental Informatics	1+3	1+3	L+P	Geoinf&Phys&Env.Geo	<i>Dr. Kovács F., Dr. Szatmári J., Dr. Tobak Z., Dr. van Leeuwen B.</i>
Geographical Epistemology	3	2	L	Econ. & Soc.Geo.	<i>Dr. Kovács Z.</i>
Research Methods in Earth Sciences	2	2	P	Geoinf&Phys&Env.Geo	<i>Dr. Mezősi G.</i>
<b>Semester 2</b>					
Modelling and Simulation	1+2	1+2	L+P	Geoinf&Phys&Env.Geo	<i>Dr. Mucsi L., Dr. Szatmári J., Dr. Tobak Z., Dr. van Leeuwen B.</i>

### II. Compulsory core courses

Courses	ECTS	Hours	Type	Responsible Department	Instructor
<b>Semester 1</b>					
Environmental Risk Assessment	3	2	L	Geoinf&Phys&Env.Geo	<i>Dr. Ladányi Zs.</i>
Environmental Geography	3	2	L	Geoinf&Phys&Env.Geo	<i>Dr. Sipos Gy.</i>
Environmental System	3+1	2+1	L+P	Geoinf&Phys&Env.Geo	<i>Dr. Kiss T.</i>
Landscape Planning	3	2	L	Geoinf&Phys&Env.Geo	<i>Dr. Mezősi G., Dr. Szilassi P.</i>
Political geography of the	3+2	2+2	L+P	Econ.&Soc.Geo.	<i>Dr. Boros L.,</i>

world economy					<i>Dr. Fabula Sz.</i>
Space and Society	3+1	2+1	L+P	Econ.&Soc.Geo.	<i>Dr. Kovács Z., Dr. Nagy Gy.</i>
<b>Semester 2</b>					
Regional Policy and Regional Development	3+2	2+2	L+P	Econ.&Soc.Geo.	<i>Dr. Hegedűs G.</i>
Presentation Skills	2	2	P	Econ.&Soc.Geo.	<i>Dr. Kovács Z., Dr. Nagy Gy.</i>
Social Geography	3	2	L	Econ.&Soc.Geo.	<i>Dr. Bajmócy P.</i>

### III. Specific courses in Regional and Urban Planning

Courses	ECTS	Hours	Type	Responsible Department	Instructor
<b>Semester 2</b>					
Urban geography and urban planning	3+1	2+1	L+P	Econ.&Soc.Geo.	<i>Dr. Kovács Z., Dr. Nagy Gy.</i>
Regional Analysis	0+2	2	P	Econ.&Soc.Geo.	<i>Dr. Bajmócy P., Dr. Vida Gy.</i>
Regional Planning	3+0	2	L	Econ.&Soc.Geo.	<i>Dr. Fabula Sz.</i>
Project Management	4+0	3	L	Econ.&Soc.Geo.	<i>Dr. Bajmócy P., Dr. Nagy Gy.</i>
Projectwork	0+3	3	P	Econ.&Soc.Geo. Geoinf&Phys& Env.Geo	<i>Dr. Lados G., Dr. Kovács F.</i>
<b>Semester 3</b>					
Rural geography and rural development	3+1	2+1	L+P	Econ.&Soc.Geo.	<i>Dr. Hegedűs G.</i>
Applied Geoinformatics	2+3	1+3	L+P	Geoinf&Phys& Env.Geo	<i>Dr. Szatmári J., Dr. Barta K.</i>
Sustainable Water Management	3+2	2+2	L+P	Geoinf&Phys& Env.Geo	<i>Dr. Mezősi G, Dr. Blanka-Végi V, Dr. Kiss T,</i>
<b>Semester 4</b>					
Urban Green Infrastructure	3+2	2+2	L+P	Clim.&Lands.Ecol.	<i>Dr. Gulyás Á., Dr. Kiss M.</i>
Internship	5	6 weeks	P	Econ.&Soc.Geo.	

### IV. Elective courses

Courses	ECTS	Hours	Type	Responsible Department	Instructor
<b>Semester 3</b>					
Offered elective courses	6	4	L	Geoinf&Phys& Env.Geo Econ.&Soc.Geo. Clim. & Landsc.Ecol. Miner.Geochem&Petr.	<i>any lecturer</i>

## V. Thesis work

Courses	ECTS	Hours	Type	Responsible Department	Instructor
<b>Semester 3</b>					
Thesis work 1	10	10	P	Econ.&Soc.Geo.	<i>any lecturer</i>
<b>Semester 4</b>					
Thesis work 2	20	20	P	Econ.&Soc.Geo.	<i>any lecturer</i>

L = lecture or seminar, P = practice

Geoinf&Phys&Env.Geo. = Department of Geoinformatics, Physical and Environmental Geography

Econ. & Soc.Geo. = Department of Economic and Social Geography

Clim. & Landsc.Ecol. = Department of Climatology and Landscape Ecology

Miner.Geochem&Petr. = Department of Mineralogy, Geochemistry and Petrology