

	Semesters				Credits	exam/ practice
	1.	2.	3.	4.		
Basic science						
1. New geographical research methods <i>Szilárd Szabó</i>	28 lec /3 cr				3+0	exam
2. Environmental system – environmental geograpgy <i>György Szabó</i>	28 lec /3 cr 14 prac /1 cr				3+1	exam+ prac
3. Applied geomathematics, modelling, simulation <i>Sándor Szegedi</i>	14 lec /1 cr 28 prac /2 cr				1+2	prac
4. Geostatistics <i>István Lázár</i>			14 lec /1 cr 14 prac /1 cr		1+1	prac
Economic, legal and human science						
1. Management skills <i>András Kun</i>	28 lec /3 cr				3+0	exam
2. Data protection, data security <i>Péter Takács</i>	28 lec /3 cr				3+0	exam
3. Space and Society <i>János Péntzes</i>		14ea /1kr 28sz /2kr			1+2	prac
4. Project management, lecture <i>Gábor Kozma</i>	14 lec / 3cr				1+0	exam
5. Project management, practice <i>Gábor Kozma</i>	28 prac /2 cr				0+2	prac
Data collection and data analysis						
1. Data mining in geosciences <i>Szilárd Szabó</i>			14 lec /1 cr 14 prac /1 cr		1+1	exam
2. Spatial data analysis <i>János Péntzes</i>				28 prac / 2 cr	0+2	prac
3. Data collection techniques <i>Zoltán Túri Krisztián</i>		28 lec /3 cr			3+0	exam

4. Database management, lecture Boglárka Bertalanné Balázs		14 lec /3 cr			1+0	exam
5. Database management, practice Boglárka Bertalanné Balázs		28 prac /2 cr			0+2	gyj
Remote sensing						
1. Hyperspectral remote sensing Péter Burai		14 lec /1 cr 28 prac /2 cr			1+2	prac
2. Multispectral remote sensing Zoltán Krisztián Túri	14 lec /1 cr 28 prac /2 cr				1+2	prac
3. Remote sensing with uncrewed aerial vehicles Tamás Tomor		14 lec /1 cr 28 prac /2 cr			1+2	prac
4. Photogrammetry Gergely Szabó	14 lec /1 cr 28 prac /2 cr				1+2	prac
Computer science and programming						
1. GIS-specific programming Marianna Bodroginé Zichar		42 lec /4 cr 28 prac/2 cr			4+2	exam
2. Technical informatics, lecture Gábor Négyesi		28 lec /3 cr			3+0	exam
3. Technical informatics, practice Gábor Négyesi		28 prac/2 cr			0+2	prac
Specific applications						
1. Applied agriculture informatics János Tamás			28 prac /2 cr		0+2	prac
2. Applied GIS in regional development János Péntes			14 lec /1 cr 28 prac /2 cr		1+2	prac
3. Open source GIS László Bertalan				28 prac /2 cr	0+2	prac
4. CAD-system Gergely Szabó		14 lec /1 cr 14 prac/1 cr			1+1	prac

5. Environmental informatics Zoltán Krisztián Túri	14 lec /1 cr 28 prac /2 cr				1+2	prac
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Geovisualisation and modelling

1. Maps on WEB Szilárd Szabó			28 lec /3 cr 14 prac/1 cr		3+1	exam
2. Models in GIS, lecture Boglárka Bertalanné Balázs				14 lec /1 cr	1+0	exam
3. Models in geoinformatics, practice Boglárka Bertalanné Balázs				28 prac /2 cr	0+2	prac
4. Geovisualisation Gábor Négyesi			28 prac /2 cr		0+2	prac

Applied analysis

1. GIS software Zoltán Krisztián Túri				14 lec /1 cr 28 lec/2 cr	1+2	prac
2. Raster analysis Csaba Lénárt	28 prac /2 cr				0+2	prac
3. Point cloud processing Péter Burai			14 lec /1 cr 14 prac/1 cr		1+1	prac
4. GIS fieldwork Boglárka Bertalanné Balázs			1 week /4 cr			prac
Total	182 lec 182 gy 30 cr	168 lec 182 prac 28 cr	84 lec 140 prac 21 cr	28 lec 112 prac 10 cr	89 cr	14 exam 21 prac

Thesis I.			30 cons/10 cr		10 cr	prac
Thesis II.				30 cons/10 cr	10 cr	prac

optional course 1					3 cr	exam
optional course 2					3 cr	exam

Internship Gergely Szabó		6 weeks/5 cr			5 cr	prac
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total	182 lec 182 prac	168 lec 182 prac	84 lec 140 prac, 30 cons	28 lec 112 prac 30 cons	120 cr	16 exam 24 prac
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