

Faculty **Environmental Engineering and Spatial Management**

STUDY CURRICULUM

Course: **Geoinformation science, earth observation and spatial management**

Subject/module	Number of ECTS credits	Number of hours						asses-ment ³	Department/Institute
		Total (4+5+6+7+8)	teaching hours			contact hours	ESW ²		
			lectures	pract. classes	others ¹				
1	2	3	4	5	6	7	8	9	11
semester 1									
student's choice course 1	6	160	15	35	0	35	75	EX	Institute of Land Improvement, Environmental Development adn Geodesy
Principles of field spectroscopy	4	101	14	10	0	35	42	EX	Department of Meteorology
Municipal economy	4	100	30	15	0	15	40	GA	Faculty of Social and Economic Sciences
Modern techniques of visualization and inventory of technical infrastructure objects	4	100	15	15	0	20	50	GA	Institute of Construction and Geoengineering
student's choice course 2	4	100	15	15	0	20	50	GA	Department of Hydraulic and Sanitary Engineering
Geoprocessing	5	125	15	20	0	30	60	EX	Department of Hydraulic and Sanitary Engineering
total semester 1	27	686	104	110	0	155	317		
semester 2									
Passive Earth Observations: new platforms, sensors and approaches	6	166	26	45	0	25	70	EX	Department of Meteorology
Environmental economics and bioeconomics	4	104	14	15	0	25	50	EX	Faculty of Social and Economic Sciences
student's choice course 3	4	100	15	15	0	30	40	GA	Department of Soil Science and Land Reclamation
UAV mission practical exercise - part 1	2	50	0	0	8	17	25	GA	Institute of Land Improvement, Environmental Development adn Geodesy
student's choice course 4	4	104	9	15	0	30	50	GA	Institute of Construction and Geoengineering
student's choice course 5	4	100	15	15	0	20	50	GA	Department of Hydraulic and Sanitary Engineering
Seminars	4	105	10	0	0	35	60	GA	Department of Meteorology
total semester 2	28	729	89	105	8	182	345		
semester 3									
student's choice course 6	3	75	15	15	0	20	25	GA	Institute of Construction and Geoengineering
Landscape geochemistry	4	100	15	15	0	25	45	EX	Department of Soil Science and Land Reclamation
ESA & NASA Earth Observation programmes and databases	4	100	20	0	0	30	50	EX	Department of Meteorology
Application of Geo-informatics to natural hazards to mapping and monitoring	6	150	20	40	0	20	70	EX	Department of Meteorology
student's choice course 7	3	75	15	15	0	15	30	GA	Department of Ecology and Environmental protection
student's choice course 8	3	75	15	15	0	15	30	GA	Department of Meteorology
Seminars	5	125	0	25	0	45	55	GA	Department of Meteorology
total semester 3	28	700	100	125	0	170	305		
semester 4									
student's choice course 9	4	113	15	18	0	35	45	EX	Department of Ecology and Environmental protection
UAV mission practical exercise - part 2	2	50	0	0	7	18	25	GA	Institute of Land Improvement, Environmental Development adn Geodesy
student's choice course 10	3	80	15	15	0	15	35	GA	Department of Ecology and Environmental protection
Spatial planning of functional areas	3	90	15	15	0	30	30	EX	Institute of Land Improvement, Environmental Development adn Geodesy
Seminars	5	130	0	25	0	45	60	GA	Department of Meteorology
total semester 4	17	463	45	73	7	143	195		
Master thesis	20	500	0	0	0	150	350		assessed by Faculty office
total semester 1-4	120	3078	338	413	15	800	1512		

¹ any activities other than conversatory, laboratory or design classes (e.g. site visits, case study visits, excursions and others)

² EX - examination; GA - graded assignment

³ ESW - estimated number of student work hours