

<b>Study Programme: Architecture</b>			
<b>Course Unit Title: Representation of a wider spatial environment</b>			
<b>Course Unit Code: AD0017</b>			
<b>Name of Lecturer(s): Bajšanski Ivana</b>			
<b>Type and Level of Studies: Master</b>			
<b>Course Status (compulsory/elective): elective</b>			
<b>Semester (winter/ summer): summer</b>			
<b>Language of instruction: english</b>			
<b>Mode of course unit delivery (face-to-face/distance learning): face-to-face</b>			
<b>Number of ECTS Allocated: 4</b>			
<b>Prerequisites: none</b>			
<b>Course Aims:</b> Enabling students to use basic computer application software for representation of a wider physical environment.			
<b>Learning Outcomes:</b> To apply acquired knowledge in the further educational process as well as in the future professional development.			
<b>Syllabus.</b> Introduction, defining and explaining wider glossary of geoinformation technology. Fundamentals of GIS: differences from related systems, application and history. Principles of GIS: data structure about Earth, mapping, basic concepts and characteristics of GIS, how GIS operates and system architecture and components. Application of GIS: GIS data base structures, raster and vector models of data base, ``object`` data base, data collection and storage in GIS, analysis and presentation of collected data. Future of GIS. An Overview of leading GIS software.			
<b>Required Reading:</b> Relevant literature in English, tbd			
<b>Weekly Contact Hours: 2</b>	<b>Lectures: 2</b>	<b>Practical work: 0</b>	
<b>Teaching Methods:</b> Lectures and Practice in the computer laboratory. Consultations. Part of the course which represents a logical whole is to be passed in four colloquiums. Colloquiums are done in the computer laboratory. Students may take the next colloquium if he/she won at least 30% of the points at the previous colloquium. In order for the student to pass the examination, he/she has to win at least 30% of the points at each of the four colloquiums besides other prerequisites. Course grade is formed based on the lecture and practice attendance and success at the colloquium.			
<b>Knowledge Assessment (maximum of 100 points):</b>			
<b>Pre-exam obligations</b>	points	<b>Final exam</b>	points
Attendance			
Computer exercises			
Tests (4x)			

