

	<b>UNIVERSITY OF NOVI SAD</b> <b>FACULTY OF TECHNICAL SCIENCES</b>	
<b>COURSES IN ENGLISH</b>		

<b>Course:</b>	Representation of a Wider Physical Environment				
Course code:	A291				
ECTS credits:	5				
Lecturers:	Šiđanin Predrag				
<b>Number of classes(per week)</b>					
Lectures: 2	Practice: 0	Other forms of classes: 3	Academic research: 0	Other: 0	
<b>Prerequisite courses:</b>					
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<b>1. Educational objectives:</b>					
Enabling students to use basic computer application software for representation of a wider physical environment.					
<b>2. Educational outcomes (acquired knowledge):</b>					
To apply acquired knowledge in the further educational process as well as in the future professional development.					
<b>3. Course content/structure:</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>4. 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 evaluation (maximum number of points 100)</b>					
Pre-exam assignments	Compulsory	Points	Final examination	Compulsory	Points
Complex exercises	YES	70	Practical part of the exam-tasks	YES	30
Lecture attendance	YES	0			
Computer exercise attendance	YES	0			
<b>Literature</b>					
Relevant literature in English					