

Study Program: GEOGRAPHY			
Type and level of studies: Bachelor studies			
Course name: GEOGRAPHIC INFORMATION SYSTEMS			
Lecturer: Aleksandar Valjarević			
Status: Compulsory subject			
ECTS: 4			
Attendance prerequisites:			
Course aims Showing the potential benefits of using information technology through practical study of the basic properties of information technology and user software.			
Course outcome			
Course content			
<i>Theoretical part</i> Introduction and theoretical foundations. What is data? What is information? How is information measured? What is knowledge? How has knowledge increased over human history? What is wisdom? What is an information system? What does a well-organized information system look like? What is a computer-based information system? What is a technique, and what is technology? What is information technology? What does informatics do? What is a number system? What is code? What units of measurement are used in computer science? Computer Anatomy, Software, What is software for? What is system software for? What is the role of the operating system, WWW application? How have the trends of software development changed over the generations? Introduction to GIS, Definition of GIS (linguistic definition of GIS, technical definition of GIS, functional definition of GIS, strategic definition of GIS, business definition of GIS, general definition). What is not GIS (GIS and CAD, GIS and land information system, GIS and computer cartography systems), A brief history of GIS (prehistory, history, age of manufacturers, age of users, future of GIS). Scope of GIS.			
<i>Practical part</i> Basics of the operating system, Logging on to a computer on the network, Getting to know the Windows desktop: MS Word, MS Excel, MS Internet Explorer, Practical work in one of the licensed GIS programs.			
Literature			
<ol style="list-style-type: none"> 1. Кукрика, М.(2000): <i>Географски информациони системи</i>, Географски факултет, Београд 2. Кукрика, М.(2003): <i>Како бити конкурентан на глобалном тржишту – Менаџмент интелектуалним капиталом</i>, Фине Граф, Београд 3. Кукрика, М.(2004): <i>Мала енциклопедија информационе технологије</i>, Београд 			
Number of active classes	Lectures:	Practical classes:	
	2	2	
Teaching methods Lectures, exercises, consultations, term tests, term papers..			
Assessment (maximum 100 points)			
Course assignments	points	Final exam	points
Lectures	10	written exam	
Practical classes		oral exam	60
Term papers	30	