Study programme: MAS Geography	
Course title: GIS application in risk assessment and natural disasters management	
Teacher(s): dr Srđan Popov	
Status: Elective	
ECTS: 5	
Requirements: none	

Learning objectives: Advanced use of geoinformation technologies with application in risk management.

Learning outcomes
Students will be able to independently find the sources of information to identify the indicators, to transform the data and create a database. On the basis of the data thus prepared multilayer create GIS, which will be able to ask spatial queries, create reports, and maps. It will also be able to create 3D spatial models.

Syllabus
Theoretical part:

Identification and determination characteristic indicators and data sources
Indicators
Sources of information (satellite images, scanned maps and plans, DEM, the results of remote sensing series of sensor data acquisition in the field, ...)
Data and data format
Creating spatial base
Goreferenced data
Descriptive data
Series sensor data
Creating a multi-layer GIS display
Setting up spatial queries and create reports
3D scene model and spatial horizons of events - spatial temporal models

Practilac part:
Practical work on computers

Literature:
1. Peter A. Burrough i Rachel A. McDonnell, Principi Geografskih Informacionih Sistema, Oxford University Press, 2006.

Weekly teaching load 4 (60)	**Lectures 2**	**Exercises 2**
Methods of Teaching: Frontal teaching, Project, consultations		

Grading method (maximu 100 points)

Pre-examination assignments	points	Final examination	points
Activities during lectures	**0-5**	Written examination	
Activities during exercises	**0-5**	Oral examination	**30-45**
Colloquia	**20-40**	....	
Seminar paper	**0-5**		