Study programme: MAS Geography

Course title: Visualisation of spatial data

Teacher(s): dr Branko Ristanović

Status: compulsory

ECTS: 8

Requirements: none

Learning objectives

To familiarize students with the geoinformatics-teachings which uses information science infrastructure to solve the problems of geosciences and related engineering professions. That students master the skills of collection, analysis and synthesis of geospatial data, or data that is georeferred, ie. spatial referred to in relation to the Earth.

Learning outcomes

Appropriate use of geospatial information to be gained by manipulation of geospatial data on specialized computer systems

Syllabus

Theoretical part:
Geoinformatics, Geographic Information, Geographic Information Systems, spatial data models, spatial data, spatial data organization, visualization of spatial data (cartographic display, 3D display, OpenGL).

Practilac part:

Interpolation, geostatistics, georeferencing, vector data, sorting and retrieval of spatial data, spatial data modeling, GIS analysis.

Literature

1. Burrough P. A., McDonnell R. A. 2006. Принципи географских информационих система. Грађевински факултет Универзитета у Београду.
2. Longley P.A., Goodchild M.F., Maguire D. J., Rhind, D. 2005. Geographical information sistems and science. Chichester: John Wiley&Sons.

Weekly teaching load 5 (75)	**Lectures 3**	**Exercises 2**

Methods of Teaching

Monologue, dialogue, practical work on software

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**		