

Kaposvar University Faculty of Economic Science
Kaposvár, Guba Sándor u. 40.

COURSE DESCRIPTION AND REQUIREMENTS

Course name: Applied geographic information system

Code: 3MNRKG14EN-3BINF3AGI00000

Study programme: Regional and Environmental Economics

Training level: MA

Form of programme: FULL TIME

Lessons per week: 1 lectures + 1 seminars

Type of evaluation: seminar mark

Course leader: Dr. Róbert Barna

Teacher: Dr. Róbert Barna

Department of course: Information Technology

Head of department: Dr. János Farkas, associate professor

Period: 2015/2016 spring semester

Objectives of the course:

The aim of education is to familiarize the students' key GIS concepts, socio-economic characteristics of spatial processes needed to manage an effective analysis tool and approach, the application process and options. It deals with general spatial information systems development methodology, the objective needs analysis, design and system development issues. It presents background information systems work in practical opportunities in the GIS professional and scientific organizations. The curriculum emphasizes in dealing with the analysis of spatial data, logic, arithmetic, geometry, mathematical and statistical functions for operational use.

Requirements

Attendance on lessons is obligatory. Missing from more than 1/3 of lessons automatically leads to failing the course.

Course thematic:

No.	LESSONS	THEMES
1.	lecture/seminar	The GIS development and definition
2.	lecture/seminar	Mapping Basics
3.	lecture/seminar	Map projection systems
4.	lecture/seminar	Data models, spatial and attribute data
5.	lecture/seminar	The structure of GIS project, data collection procedures, manual methods
6.	lecture/seminar	The concept and characteristics of remote sensing
7.	lecture/seminar	Remote sensing methods
8.	lecture/seminar	-
9.	lecture/seminar	GPS
10.	lecture/seminar	GIS applications
11.	lecture/seminar	The QGIS program
12.	lecture/seminar	Open Layers
13.	lecture/seminar	Digitization
14.	lecture/seminar	GPX (GPS Exchange Format)

Literature

- handouts
- NCGIA Core Curriculum- [online] http://www.ncgia.ucsb.edu/giscc/cc_outline.html

Kaposvár, 10th January 2016.



Dr. Barna Róbert

associate professor



Dr. Farkas János

head of department, associate professor