Study programme: MAS Geography

Course title: Photo interpretation of geographical area

Teacher(s): dr Miško M. Milanović

Status: elective

ECTS: 6

Requirements: none

Learning objectives

Gaining knowledge of applied remote sensing related to photo interpretation a geographical area.

Learning outcomes

Identifying objects phenomena and processes of geographical space, determination of cause-effect relationships and aerial mapping and satellite imagery.

Syllabus

Theoretical part:

1. Introductory remarks on photographic interpretation of geographical area.
2. Aero photo (definition, types, tags, etc.).
3. Satellite imagery (panchromatic images, multispectral images, colour composites, etc.).
4. Data collection from aero photo.
5. Collecting data from satellite imagery.
6. Reading and decoding of remote images - a prerequisite quality photographic interpretation.
7. Photographic interpretation of geological elements of geographical area.
8. Photographic interpretation of geo-morphological elements of geographical area.
9. Photographic interpretation of hydrological elements of geographical area.
10. Photographic interpretation soil cover.
11. Photographic interpretation of vegetation.
12. Photographic interpretation of settlements.
13. Photographic interpretation of infrastructure
14. Ortho photo plans.
15. Aerial mapping and satellite imagery.

Practilac part:

Practical applications, in lectures, presented concepts based on the image processing procedures (at legal software). Work on Idrisi or TNT software from the first up to the fifteenth week.

Literature

1. Kravcova B. I. (2000): GENERALIZACIЯ AƏROKOSMIČESKOGO IZOBRAŽENIЯ – kontinualьnьie i diskretnьie snimki, Izdatelьstvo Moskovskogo Universiteta, Moskva.
2. Campbell J., Wynne R., (2011): **Introduction to Remote Sensing**, Guilford Press, New York.
3. Jensen J.R., (2007): **Remote Sensing of the Environment: An Earth Resource Perspective**, Upper Saddle River, NY: Prentice-Hall.
4. Lillesand T. M., Kiefer R. W. (2002): „Remote Sensing and Image Interpretation", John Wiley & Sons, Inc., New York.
5. Milanović M., LJešević M. (2009): Teledetekcione metode istraživanja životne sredine, Geografski fakultet, Univerzitet u Beogradu, Beograd.

Weekly teaching load 4 (60)	**Lectures 2**	**Exercises 2**

Methods of Teaching

Lectures, Illustration and Demonstration, Practical skills

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**		