Level: bachelor

Course title: Photo interpretation of geographical area

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 instruction

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.

Practical instruction

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.

Weekly teaching load 2 (30)				Other:
Lectures: 2	Exercises:	Other forms of teaching:	Student research:	