

General Information			
Course name	Land Information Systems	ECTS Credits	4
		Semester	summer 3 hours/week
Aims			
<p>This course introduces students to land information systems as a special case of geographic information system with focus on the contemporary internet technology used by public or private users.</p> <p>By the end of the course the student will be able to:</p> <ul style="list-style-type: none"> - describe main components of LIS, specifics of widely used GIS and CAD softwares, data and legislative aspects - describe available proprietary and open-source geospatial internet technology used for LIS - install and set-up an open-source map portal 			
Contents			
<p>Description of Land Information System (LIS), components of LIS, areas of application Hardware configurations of LIS Software configurations of LIS, application software of GIS and CAD Data for LIS - digital map products (e.g., SVM50, ZB-GIS, geoportals, webmap services) Data for LIS - local government - cadastral maps, technical large-scale maps, price maps, orthophotomaps Data for LIS - local government - applications and legislative frames WebGIS - principles of geospatial internet technology - map servers, Google Maps, API, applications WebGIS - ArcIMS, Mapserver, software aspects, examples of map portals and their information content WebGIS - GISPLAN opensource solution (Prešov, Košice) INSPIRE directive, national law aspects - NIPI, implementation aspects in Slovakia Practical seminars: installation and set-up of map portal based on open-source products (UMN Mapserver, Geoserver), Assessment Methods and Criteria of existing map portals</p>			
Assessment Methods and Criteria			
<p>Continuous Assessment Methods and Criteria is based on student's activity in the classes and work on assignments. The course ends with a final written examination. The final assessment is calculated as a weighted average of the assessment from seminars (1/3) and the final test (2/3), however, the student must obtain at least mark E from both parts to earn the credits.</p>			
<p>Grading Scale (in %):</p>			

Grading System: The University recognises the following six degrees for the Assessment Methods and Criteria of the study results: a) A – excellent (excellent results) (numerical value 1) b) B – very good (above average results) (1.5) c) C – good (average results) (2) d) D – satisfactory (acceptable results) (2.5) e) E – sufficient (results meet the minimum criteria) (3) f) FX –failed (requires further work) (4)

Bibliography

LONGLEY, P. A., GOODCHILD, M. F., MAGUIRE, D. J., RHIND, D. W. 2001: Geographic Information Systems and Science. John Wiley & Sons.

LONGLEY, P. A., GOODCHILD, M. F., MAGUIRE, D. J., RHIND, D. W. 1999: Geographical Information Systems: Principles, Techniques, Management and Applications. John Wiley & Sons.

SHEKHAR, S., XIONG, H. 2008: Encyclopedia of GIS. Springer.

WILSON, J. P., FOTHERINGHAM, A. S. 2008: The Handbook of Geographic Information Science. Blackwell Publishing.

