Level: bachelor

Course title: Geospatial databases

Status: obligatory

ECTS: 8

Requirements: none

Learning objectives

Introduction to the concept of geospatial databases as a specific method of storing and investigating spatial data.

Learning outcomes

Understanding the functions and elements of geospatial databases.
Developed skills for spatial database structure planning, data entry and editing.
Learning the methods of most efficient database searching.
Acquired ability for further independent individual professional development of knowledge and experience in the field of geospatial database applications in spatial analysis.

Syllabus

Theoretical instruction

The concept of spatial data and geospatial database
architecture of geospatial databases
tools for geospatial database structure planning and development
models of geospatial data
SQL and queries
spatial queries
topology and data integrity in the database.

Practical instruction

Planning the architecture of geodatabase using Case tools
creating spatial databases
searching and formulating query expressions

Weekly teaching load				Other:
Lectures: 3	Exercises: 2	Other forms of teaching:	Student research:	