

Level: master				
Course title: Mathematical methods in geoinformatics				
Status: elective				
ECTS: 5				
Requirements: none				
Learning objectives Introducing master students to mathematical and statistical methods applied in geoinformatics, especially in the spatial and temporal analysis of various natural and human geographic parameters.				
Learning outcomes Students will learn to use various methods and software packages for statistical and mathematical analysis. Application of the knowledge acquired in a variety of spatial analysis and projections, which is the main purpose of geoinformatics as a scientific and technical discipline.				
Syllabus <i>Theoretical instruction</i> Mathematical statistics Random variables Statistical predictions Different models of cluster analysis Geovisualization <i>Practical instruction</i> Individual work with students during assignments. Using software packages (SPSS and Statistica).				
Weekly teaching load				Other:
Lectures: 2	Exercises: 2	Other forms of teaching:	Student research:	