

Level: Master				
Course title: GIS application in business, service industries and infrastructure management (MGI511)				
Status: elective				
ECTS: 5				
Requirements: none				
Learning objectives Introduction to the numerous aspects of GIS application in different economic and service sectors through practical work and participation in solving the actual problem situations.				
Learning outcomes Students will acquire the ability to determine how GIS can be used in solving various real-world situations in primary, secondary and tertiary industries. Students will be able to correctly assess costs and benefits of GIS application in the business, service sectors and infrastructure management.				
Syllabus <i>Theoretical instruction</i> Concepts and theories of GIS in business. The costs and benefits of GIS use in business. Aspects of GIS application in agriculture, hunting, forestry, mining, construction and energetics. GIS application in monitoring water supply, sewerage, roads, fleet management (railways, emergency services, shipping and airline companies, public transport, taxis). GIS and telecommunications. GIS in marketing. GIS application in tourism. GIS as decision support system. Site allocation. The application of LBS (location based services). Different types of spatial information systems. <i>Practical instruction</i> Practical learning is achieved through GIS analysis of the selected case studies and by performing expert practice in the chosen company or public institution.				
Weekly teaching load				Other:-
Lectures: 2	Exercises: 2	Other forms of teaching:-	Student research:-	