

Study Programme: Civil Engineering			
Course Unit Title: Chapters in Infrastructure Management using Information Systems			
Course Unit Code: GP401			
Name of Lecturer(s): Matić Bojan			
Type and Level of Studies: bachelor			
Course Status (compulsory/elective): elective			
Semester (winter/ summer): winter			
Language of instruction: english			
Mode of course unit delivery (face-to-face/distance learning): face-to-face			
Number of ECTS Allocated: 4			
Prerequisites: none			
Course Aims: Enabling students in acquiring professional knowledge as a basis for further education and application in practice.			
Learning Outcomes: Student is competent for using acquired knowledge in further education and in professional activities.			
Syllabus. Introduction, structure and objectives of the structure management system, basic postulates, planning. System structure, functions, analysis levels. Methodological approach to management using contemporary achievements for data acquisition and structure condition monitoring. Process analysis in the structure management system (IDEF0 methodology). Data analysis and the development of the information system for decision-making support (IDEF1 methodology). Damage catalogue, works specifications. Damage development and forecasting models for predicting the structure condition changes. Valuation methods and priority determination.			
Required Reading: Relevant literature in English, tbd			
Weekly Contact Hours:2		Lectures: 2	Practical work: 1
Teaching Methods: Lectures, practice, consultations. Continuous monitoring and evaluation of students.			
Knowledge Assessment (maximum of 100 points):			
Pre-exam obligations	points	Final exam	points
Attendance			
Computer exercises			
Tests (4x)			

