

Study Programme: Civil Engineering			
Course Unit Title: BIM in Civil Engineering			
Course Unit Code: GG700			
Name of Lecturer(s): Peško Igor, Vukobratović Vladimir, Radović Nebojša			
Type and Level of Studies: master			
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: 7			
Prerequisites: none			
Course Aims: Acquiring knowledge on the application of the BIM methodology in civil engineering.			
Learning Outcomes: Ability to apply the BIM methodology in civil engineering and ability to use digital methods in design and construction processes. The acquired knowledge can be directly applied in engineering practice.			
Syllabus. Introduction to the application of BIM methodology in civil engineering. General about BIM methodology and BIM processes (strategy, standards, terminology). Processes and requirements for data exchange (IFC application). Development of information exchange between different software packages in project. Duties and responsibilities of BIM project participants. Defining LOD (level of development) and LOI (level of information). Defining the BIM execution plan.			
Required Reading: Relevant literature in English, tbd			
Weekly Contact Hours:2	Lectures: 2	Practical work: 2	
Teaching Methods: Lectures, auditory exercises, research papers and consultations. The lectures present theoretical part of the teaching in the form of presentations of individual method units followed by appropriate examples from practice, for easier understanding and conveying of the knowledge. On auditory exercises, lectures with more active participation of students are discussed in more detail. In addition to lectures and exercises, consultations are also held regularly. Student, on the basis of the obtained information (lectures, literature, consultations and general instructions at the beginning of the exercise), solves the assigned tasks and makes research papers based on the work in BIM. Written and positively assessed seminar papers are the condition for taking the exam. The exam covers the entire material presented during the semester and is taken orally. Grade is formed based on the attendance of lectures and exercises, evaluation of research papers and oral exam.			
Knowledge Assessment (maximum of 100 points):			
Pre-exam obligations	points	Final exam	points
Attendance			
Computer exercises			
Tests (4x)			

