Course Unit Descriptor

Study Programme: Civil Engineering			
Course Unit Title: Technology and Building Organization in Hydrotechnics			
Course Unit Code: GG311			
Name of Lecturer(s): Doc.dr Vladimir Mučenski			
Type and Level of Studies: Bachelor Level			
Course Status (compulsory/elective): compulsory			
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: 6			
Prerequisites: None			
Course Aims: Acquiring knowledge on the process in structure building, usage of mechanization and possible building technologies, as well as manners of work organization when building hydraulic engineering facilities.			
Learning Outcomes: Ability for elaborating bill of quantities for construction, price analysis for construction works, application of construction mechanization and working costs analysis, as well as the selection and definitions on building technologies for individual work types in building. Ability to complete organization elaborates, site preparation, and elaboration of dynamic plans for building hydrotechnical structures. Acquired knowledge can be directly applied in engineering practice.			
Syllabus: A project on technology and building organization. Bill of quantities and priced bill of quantities. Construction mechanization and application. Construction mechanisation price per hour. Technology for construction works in hydrotechnics. Planning. Planning methods (CPM, Gantt charts). Plan elaboration on a computer. Building conditions, temporary facilities on a site, site organization.			
Required Reading: Relevant literature in English TBD			
Weekly Contact Hours: 4	**Lectures:** 2	**Practical work:** 0	
Teaching Methods: Teaching is realized as lectures in the form of presentations on individual methodical units and graphic practice performed individually by students during the class and assisted by an assistant. In practice classes, based on the obtained information (lectures, literature, consultations and general introduction at the beginning of exercises) students solve the set tasks (graphic practice). All completed and positively graded papers are a prerequisite for taking the examination. Part of the practice classes is held in the computer centre and the completed computer exercises are also a prerequisite for taking the examination. Examination includes the entire course content presented during the semester, and it is in written and oral form. Written part of the examination can also be taken as two modules during the teaching process. Examination grade is formed on the basis of lecture and practice attendance, points from graphic papers, computer practice, written and oral examination.			
Knowledge Assessment (maximum of 100 points):			
Pre-exam obligations	points	**Final exam**	points
Active class participation		written exam	

Practical work		oral exam	
Preliminary exam(s)		…….	
Seminar(s)			
The methods of knowledge assessment may differ; the table presents only some of the options: written exam, oral exam, project presentation, seminars, etc.			