

Study Programme: Civil Engineering			
Course Unit Title: Testing of Structures			
Course Unit Code: GG403			
Name of Lecturer(s): Kovačević Dušan			
Type and Level of Studies: bachelor			
Course Status (compulsory/elective): elective			
Semester (winter/ summer): summer			
Language of instruction: english			
Mode of course unit delivery (face-to-face/distance learning): face-to-face			
Number of ECTS Allocated: 3			
Prerequisites: none			
Course Aims: Acquiring basic knowledge in the field of experimental analysis on civil engineering structures by load testing in order to assessment of the real structural performances.			
Learning Outcomes: Ability for experimental analysis on civil engineering structures by testing experimental loads in order to be familiar with the real structure behaviour.			
Syllabus. Meaning of structure testing by load. Modelling real structure behavior. Methodology of testing structures and objects by experimental loading. Registering of deformations on structures and objects. Measuring of displacements on structures and objects. Determining of dynamic structure parameters. Compensating the temperature influence. Determining forces in prestressing cables. Schemes for test load. Modelling of structures based on their behavior under test load. Technical regulations related to structural test by load. Elaborate on structural test by load. Review on some significant structure testing.			
Required Reading: Relevant literature in English, tbd			
Weekly Contact Hours:2	Lectures: 2	Practical work: 2	
Teaching Methods: Interactive work with students in order to continually monitor their knowledge level. Theoretical analysis on the phenomena included in the course content, numerical modelling and results comparison of experimental and numerical analysis.			
Knowledge Assessment (maximum of 100 points):			
Pre-exam obligations	points	Final exam	points
Attendance			
Computer exercises			
Tests (4x)			

