

Study Programme: Architecture			
Course Unit Title: Research in the field of robotics in architecture			
Course Unit Code: A923			
Name of Lecturer(s): Raković Mirko, Tepavčević Bojan			
Type and Level of Studies: Doctorate			
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: 5			
Prerequisites: none			
Course Aims: The aim of this course is an introduction to diverse approaches in the field of robotics in contemporary architecture.			
Learning Outcomes: The ability of students to analyse and solve specific non-standard problems in the area of digital fabrication with the use of robotics and mechatronics systems.			
Syllabus. Introduction and definition of main terms in robotics in architecture. Familiarisation with the basic notion in robotics, mechatronics and embedded systems. Trends in the development and research in contemporary architecture based on the utilisation of industrial robots. The basic notion from the field of digital design and fabrication. Applied interdisciplinary research in the area of robotics and architecture.			
Required Reading: Relevant literature in English, tbd			
Weekly Contact Hours:2	Lectures: 2	Practical work:	
Teaching Methods: The course is conducted through the familiarisation of novel directions in the research from the previously mentioned fields, through introductory lectures and discussions on course topics. In collaboration with the professor, students are defining the topic and methods for their research and are required to conduct the research work independently. The forms of the lectures are adapted with the number of students and selected research direction.			
Knowledge Assessment (maximum of 100 points):			
Pre-exam obligations	points	Final exam	points
Attendance			
Computer exercises			
Tests (4x)			

