Course Unit Descriptor

Study Programme: Architecture
Course Unit Title: Design Studio 03A - Synthesis
Course Unit Code: A03ASP
Name of Lecturer(s): Atanacković-Jeličić Jelena, Todorov Marko
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: 7
Prerequisites: none
Course Aims:. The main objectives of this course are: 1 Understanding of the various theoretical and social events that have, in the last century, lead to the formation of the current architectural trends, 2nd Relation of architect to their work and the culture in general, 3 Impact of society and politics on architectural practice 4th Defining the influence of modern scientific and technological discoveries in the process of materialization of architectural structure and the process of developing the program together with the concept of spatial and functional analogy.
Learning Outcomes: Student's ability to analyze the theoretical concepts and observations of social phenomena in the process of creating / designing and ability to looks at the issues that arise in this process on rational, logical and coherent way. Gaining knowledge about the impact of discoveries from variety of natural and technological disciplines in the development of architectural theory and practice.
Syllabus. Architecture seen as an amalgam of the development of science, technology, philosophy. Impact of information society on architecture : new demands, new ways of living, new materialization and meeting of those needs through technological development. Is the future comprised entirely of curved surfaces? - Dilemmas and challenges of modern time. From particular concern will be the theme of the relationship of general social trends to personal interpretations of designer through design itself. Concept of parametric design. Parameter-based modeling. Advantages of parametric modeling. Data stream and strategies for creating a parametric algorithm. Elements determined by parameters and the analysis of the elements. Application of parametric modeling in architecture, urbanism and design.
Required Reading: Relevant literature in English, tbd

Weekly Contact Hours:2	**Lectures: 4**	**Practical work:**

Teaching Methods: Lectures, exercises, consultations, oral exam. Exercises to be held in computer laboratory.

Knowledge Assessment (maximum of 100 points):			
Pre-exam obligations	points	**Final exam**	points
Attendance			
Computer exercises			
Tests (4x)			