Course Unit Descriptor

Study Programme: Architecture
Course Unit Title: Studio 01B – Architectural design – alternative approach
Course Unit Code: AP01B
Name of Lecturer(s): Atanacković-Jeličić Jelena, Medić Saša
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:. The goal of this course is to introduce students to the theoretical principles of modern methodologies in architectural design. Students will learn about the philosophical directions of the end of the 20th century and the way they influenced the creation of the evolutional dynamic systems, morphogenetic principles of the creation of form and the application of these principles in the field of contemporary architectural and urban design
Learning Outcomes: In this course, students are trained to solve complex, functional and formal problems in the field of architecture and urbanism. Students will be using modern methodologies in the design process to develop analytical thinking and the ability to expand knowledge in solving the complex problems of the built environment. Also students will be familiar with the optimization process and evolutionary systems and potential applications in the design process.
Syllabus. The basic principles of modern methodologies in the design process-philosophical ideas; Algorithm / chart as a starting point; Using of contemporary methodologies in architectural and urban design; Application of modern techniques and technologies to architectural and urban design; Application of adaptable systems to the problems in the field of architecture, urbanism and urban planning-programming, functional, structural aspects. Top down / bottom up process, Finding Form / form making, Emergence. Complex adaptable systems without central coordination. Evolutionary Systems / morphogenesis. Biomimicry. Digital morphogenesis
Required Reading: Relevant literature in English, tbd

Weekly Contact Hours:2	**Lectures: 3**	**Practical work: 2**

Teaching Methods: Lectures, exercises, consultations, and oral exam
Knowledge Assessment (maximum of 100 points):

Pre-exam obligations	points	**Final exam**	points
Attendance			
Computer exercises			
Tests (4x)			