

COURSE DESCRIPTIONS 2012/2013
DEPARTMENT OF ARCHITECTURE THIRD CYCLE COURSE DESCRIPTIONS

First year

Elective Courses

ARC 615. THEORY, PROCESS AND FORMAL LANGUAGE IN ARCHITECTURAL DESIGN

Hours (Theoretical-Practical): 3+0

ECTS: 6.5

This course enables students to recognize the structure of architectural components and elements. The subject deals with the teaching of formal languages and styles in architecture. Introduction, Theory of architectural design, Elements of the program, space-program organization, Elements and Structures, Form and content. The realization of ideas. Technology and materials, The process of designing, The structure of the creative process, Development of ideas, Methodological concepts the design phase. Evaluation: selection, cases and iterative methods, Formal languages in architecture, Architectural Styles, Purizan and Brutalism, Postmodern languages.

ARC 611. COMPOSITE BUILDING MATERIALS AND DESIGN PRINCIPLES

Hours (Theoretical-Practical): 3+0

ECTS: 6.5

Composite materials are composed of a combination of two or more materials. Connected together, to enhance their properties, enabling their use where traditional materials fail. The process of composing a more physical process, but chemical so that new materials are getting all the properties of materials that make them.

ARC 627. METHODOLOGY OF CONDUCTING CONSERVATION-RESTORATION PROJECTS

Hours (Theoretical-Practical): 3+0

ECTS: 6.5

Presentation of scientific tools, methods and tools used in conducting conservation research and advanced design in this area.

- The process of design in the field of architectural conservation
Methods and techniques of research
- Case Studies: Analysis and interpretation of the completed projects

Discussions and workshops: analysis of specific problems

ARC 608. PERFORMANCE OF BUILDINGS ELEMENTS UNDER ENVIRONMENTAL EFFECTS

Hours (Theoretical-Practical): 3+0

ECTS: 6.5

This course studies the behavior of structural elements in the event of disasters such as earthquakes or storms. Explains the process of designing the behavior of materials and their performance. Based on the anticipated performance of elements, their dimensions are adopted and design is more associated with the economic demands of consumers.

Second Year

Elective Courses

ARC 622. 20TH CENTURY ARCHITECTURE OF THE WORLD

Hours (Theoretical-Practical): 3+0

ECTS: 6.5

This course provides students with the form and methodology discussions and presentations of individual research. The content of the course of world architecture 20th century architectural holdings placed 20th century in its social, cultural, technical and historical context. Explain the main directions of development of architectural creation from the beginning of the second industrial revolution to the reflections of architecture in the phenomenon of environmental sustainability at the turn of the 3rd millennium. The course provides an insight into the thoughts, aspirations and credo protagonist architectural creativity.

ARC 628. STONE IN ARCHITECTURE AND ARCHITECTURAL CONSERVATION

Hours (Theoretical-Practical): 3+0

ECTS: 6.5

Since prehistoric times people used the stone for its unique durability, making the monuments of great importance. Due to the lack of transport and related technologies, until the 19th century, local stone was mainly used, or the stone from the available quarry. Only in rare cases, decorative stone, such as, marble transported from great distances, when stone of the same color and beauty, was not available in the immediate vicinity. Playing with stone is one of the essential elements of design in architecture from the beginning. Many historic buildings are made out of stone. All this makes this material is one of the most important topics for research in architecture: design, conservation.

ARC 605. CONSTRUCTION ECONOMICS

Hours (Theoretical-Practical): 3+0

ECTS: 6.5

The purpose of this course is to provide an introduction to those aspects of construction which can help students of architecture to become aware of the economic concerns of other parties in the construction process and be able to respond constructively these problems in their design decisions.

- The importance of economics in Construction
- Analyzing the initial cost of construction projects
- Basic concepts of cost estimates
- Cost estimation, construction and finance
- Future performance of buildings
- Services
- Connecting build and benefit
- Financial feasibility analysis for construction projects

ARC 601. METHODOLOGY OF CONDUCTING SCIENTIFIC RESEARCH

Hours (Theoretical-Practical): 3+0

ECTS: 6.5

The study of quantitative and qualitative research methods commonly used in architectural studies. This is an introductory course in research methods. Identification of problems, Formulation of hypothesis, Sampling, Design research, Data collection and collection strategy, Validity, reliability and other problems of measurement, Valuation techniques and data management methods applied in the study, Qualitative Data Analysis, Non-parametric data analysis, Factor analysis, Dentology research, Application.