

COURSE OUTLINE

1. GENERAL

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| SCHOOL | ENGINEERING | | |
| DEPARTMENT | ARCHITECTURE | | |
| LEVEL OF COURSE | UNDERGRADUATE | | |
| COURSE CODE | ARC_050 | SEMESTER OF STUDIES | FIFTH |
| COURSE TITLE | ARCHITECTURAL DESIGN 5 | | |
| INDEPENDENT TEACHING ACTIVITIES | TEACHING HOURS PER WEEK | ECTS CREDITS | |
| Lectures, seminars and laboratory work | 6 | 12 | |
| COURSE TYPE | Field of Practice and Skills Development | | |
| PREREQUISITE COURSES: | Architectural Design 3 (3 rd semester) | | |
| TEACHING AND ASSESSMENT LANGUAGE: | Greek | | |
| THE COURSE IS OFFERED TO ERASMUS STUDENTS | Yes | | |
| COURSE WEBPAGE (URL) | | | |

2. LEARNING OUTCOMES

Learning outcomes

The course is the fifth in a row of eight studio courses for Architectural Design (semesters 1-8th). Its object is the design of public buildings and small complexes in an urban context.

During the course of the semester, exemplary works from the history of architecture are analysed and different building design methodologies are taught. The studio examines the symbolic dimension of the public building and its role in the urban environment and investigates various hypothetical scenarios for the future development of urban life.

The particular object of study is a building of public interest in the centre of Patras (Greece). The building program and the basic assumptions of design are determined by each tutor with the contribution of the students. Students work either individually or in groups of two.

The main objective of the course is to familiarize students with the main methodological tools of analysis and synthesis that are necessary for addressing a design problem of medium scale and high complexity. Particular emphasis is given to the definition of the conceptual background for the documentation of synthetic ideas, as well as to the presentation of proposals with drawings, images and architectural models.

Some of the basic investigations involve: the defining of the building program, the circulation organisation of the building and its connections to urban networks, and the representation of public space through emblematic images.

The course includes a theoretical and studio component. The theoretical component consists of lectures and in-depth seminars on key issues of architectural theory and design methodology. The studio component of the course is carried on by dividing the students into smaller groups of 15-20. Design studios allow for direct communication between students and tutors. Teaching, also, involves criticism of the projects by the tutors and the students themselves, as well as 6 hrs workshops, where students develop specific parts of their projects within the class.

The course requires attendance in at least eight weekly lessons.

After successful completing the courses of Architectural Design 5 and 6 the students:

- They have acquired basic knowledge of the history and the symbolic dimension of public buildings.
- They are able to organize complex building programs based on different hypothetical scenarios.
- They have the ability to formulate synthetic architectural ideas supported by thorough research, advanced architectural vocabulary and different design methodologies.
- They have basic knowledge of the layout and organization of buildings of public interest.
- They have developed their skills in handling the traditional architectural representational media (drawing and models) and have become familiar with using digital ones (computer modelling and digital imaging).

General Abilities

- Search, analyze and synthesize data and information, using the necessary technologies
- Autonomous work
- Teamwork
- Design and project management
- Exercise of criticism and self-criticism
- Promote free, creative and inductive thinking

3. COURSE CONTENT

- Introduction to the topic - Basic concepts
- Study of reference works
- Formulation of a building program
- Formulation of a building program
- Site analysis
- Developing concepts
- Interim presentation of concepts
- Building design - Elaborating on the proposal workshop
- Building design - Elaborating on the proposal workshop
- Building design - Elaborating on the proposal workshop
- Interim presentation of an integrated proposal
- Developing presentation material
- Developing presentation material

4. TEACHING AND LEARNING METHODS - ASSESSMENT

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| TEACHING METHOD | Laboratory work face to face and seminars in small groups. | |
| USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES | Specialized architectural design software for drafting and modeling (in two and three dimensions) and digital image processing. Student posts on the course's blog. Support learning through the e-class platform. | |
| TEACHING ORGANIZATION | Activity | Work-load during semester |
| | Lectures and seminars | 30 |
| | Design Workshops | 18 |
| | Interactive teaching | 30 |
| | Site visit and analysis | 12 |
| | Analysis of reference works | 36 |
| | Bibliographical research | 12 |

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| | Introductory exercises | 36 |
| | Core project development | 126 |
| | Course Total (25 hrs of work-load per ECTS unti) | 300 |
| STUDENT ASSESSMENT | <p>I. Final public Submission and Presentation (50%). It consists of drawings, models and digital audiovisual material. The final project submission and presentation is evaluated for the integration and degree of completion of the required material, its originality in addressing the goals and the quality of the representational media.</p> <p>II. Attendance, progress and participation (50%). The overall assessment of the student's progress in the course takes into consideration his/her participation in the Interim Exams and Workshops, as well as his/her Consistent and regular attendance and progress of the work throughout the semester.</p> | |

5. RECOMMENDED LITERATURE

Books:

- Πάτροκλος Καραντινός (επιμ.), Τα νέα σχολικά κτίρια, Αθήνα 1938
- Φράνκ Ουίτφοντ, Μπάουχαους, Εκδ. Υποδομή, Αθήνα 1993.
- Ελένη Καλαφάτη, Δημήτρης Παπαλεξόπουλος, Τάκης Χ. Ζενέτος, Ψηφιακά οράματα και αρχιτεκτονική, Εκδ. Libro, Αθήνα 2006.
- Σάββας Κονταράτος, Wlifried Wang, (επιμ.) Η αρχιτεκτονική του 20^{ου} αιώνα: Ελλάδα, Prestel Verlag, DAM-EIA, 1999, 2000.
- Paul Lewis, Mark Tsuramaki, David J. Lewis, Manual of Section: New York USA, Princeton Architectural Press, 2016.

Periodicals:

- Αρχιτεκτονικά Θέματα /
- Δομές / DOMES
- El Croquis
- Domus
- Architectural Review