**General Information:**

**Name of Course: Complex Design**

**Course Code:** PMRENE057A

**Semester:** 9th

**Number of Credits:** 6

**Allotment of Hours per Week:** 4 Practical Lessons /Week

**Evaluation:** Signature (with grade)

**Prerequisites: Completed Building Constructions 5, Building Design 7**

**Instructors: Betty ZOLTÁN dr., associate professor**

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**Introduction, Learning Outcomes:**

This course aims to summarize the previously gathered architectural skills focusing on the built public environment, with special emphasis on functional features in a designated multifunctional urban area

The task is to design a public building of high architectural value – both in volume and layout, materiality and solid constructional detail. Students can choose from diverse suggested architectural programs, but they are also encouraged to suggest new programs based on the analysis of social and urban situation. Students are required to carry out an urban design analysis and write an essay on successful examples of implemented architectural projects.

The project is to be presented on posters with a rich architectural content and high quality representation at a scale of 1:100 printed scale according to poster size and final paper model in a scale specified by the instructor. Students’ acquired knowledge is assessed continuously over the course of the semester.

The course focuses on exploring a design problem, benefitting from all design skills and methodologies in a specific area of interest, and engaging in design research within the architectural field.

The finished and accepted project is shown and presented in the Final Presentation for a jury to demonstrate the acquired architectural knowledge and abilities.

**General Course Description and Main Content:**

This subject includes an architectural design project where students prove their architectural skills before the diploma.

Upon completion of this course the student should be able to:

* analyze the design problems and the built environment,
* work efficiently and on time according to their individual design process,
* manage complex architectural relationship like demonstrate a progression in terms of understanding relevant functional needs, programming and construction techniques in the same time
* apply and employ their individual creativity,
* to communicate their project both visually and orally to a jury

The purpose of this course is to introduce students to architectural design from a complex view that also involves parts of the planning process which are supervised by specialised departments. Furthermore, this subject intends to have students practise the design phase related to documentation required for planning permission. During the preparation period, students study existing buildings with similar functions and examples in special scientific literature, and on this basis, they finalize their design project. During the design process, they continuously consult with chosen teachers from the Department of Design and the Department of Building Constructions.

**Methodology:**

The course is based on individual architectural skills with regular consultations and presentations.

**Schedule:**

Week 1. Introduction, general information, syllabus, introducing the design tasks

Week 2. Discussion of the architectural program, analysing the urban context and challenges

Week 3. Project consultation, consultation of the study booklet (inspirations, analytic drawings, diagrams)

Week 4. Deadline 1: STUDY BOOKLET(15 POINTS) – students should study existing buildings with similar functions and examples in special scientific literature, and the design project can be developed further based on this kind of research. The study should be uploaded (destination folder will be announced in class)

Project consultation**:** analysis**,** site plan, master plan, functional plan, concept for setting, massing,

drafting model(s) scale 1:500

Week 5. Project consultation: analysis, site plan, volume and concept developing, floor plans, structural concept

model(s) scale 1:500 - draft

Week 6. Project consultation: site plan, volume developing, floor plans, sections, elevations, forming the exterior and interior spaces, definition of building materials - model 1:500 or 1:200 draft

Week 7. PROJECT PRESENTATION 01. – CONCEPT DESIGN (35 POINTS) – Digital Presentation + paper model – summary poster for the exhibition (posters + models should be exhibited between the 19th Oct-24th Oct) For the digital part: the slides should be in combined PDF file, naming by SURNAME of the student, and are to be uploaded to (destination folder will be announced in class) **11am 16th October** ! **Projects which are not uploaded can not be presented!** The slides should include following information and drawings:

analysis

concept

site plan 1:500

floor plan of every story 1:200

sections (minimum 2) 1:200

elevations m=1:200

street view 1:200 or 1:500

visualization

model with the broader planning area 1:500

model (only the building) 1:200

Week 8 national holiday – exhibition in the main hall

Wee 9. fall break

Week 10. Project consultation (the design improved and developed according to the critics)

floor plans, sections, plans with details, model 1:200

Week 11.Project consultation: floor plans, sections, elevations with details,

environmental plans with details, interiors whit details, temporary model 1:200

Week 12. Project consultation: floor plans, sections, elevations with details,

environmental plans with details, interiors whit details, structural details, temporary model 1:200

Week 13. Project consultation: every working part on posters (graphic design)

(analysis, conceptual figures, site plan, floor plans, sections, details, visualization)

Week 14. Presentation of the final version for the tutor- discussion of layouting and the content of the posters

Week 15. PROJECT PRESENTATION 02. – CONCEPT DESIGN PROJECT (50 POINTS) – poster presentation+ paper model

analysis (the most important)

concept (diagrams and text)

site plan, environment design plan 1:500 (narrowly interpreted planning area)

floor plan of all levels 1:100

sections (minimum 3) 1:100

elevations m=1:200

street view 1:200 or 1:500

visualization (outer spaces with the environment)

visualization (interiors)

structural details

model with the broader planning area 1:500

model (only the building) 1:200

**Studio Culture:**

Information on PTE’s studio culture policy can be found at the following location: www.pte.hu

**Attendance:**

Course can be attended by gradual and Erasmus students. Unexcused absences will adversely affect the grade, and in case of absence from more than 30% of the total number of lessons student will fail the course. In the case of an illness or family emergency, the student must present a valid excuse, such as a doctor's note.

**Evaluation + Grading**

Grading will follow the course structure with the following weight: Study booklet – 10%, Project Presentation - 01, 40%, Project Presentation 02, 50%. Please note that attendance will adversely affect one's grade, both in direct grade reduction and in missing work in the development of a project. The final grade will be based on the following guidelines:

5. Outstanding work. Execution of work is thoroughly complete and demonstrates a superior level of achievement overall with a clear attention to detail in the production of drawings, models and other forms of representation. The student is able to synthesize the course material with new concepts and ideas in a thoughtful manner, and is able to communicate and articulate those ideas in an exemplary fashion in.

4. High quality work. Student work demonstrates a high level of craft, consistency, and thoroughness throughout drawing and modelling work. The student demonstrates a level of thoughtfulness in addressing concepts and ideas, and participates in group discussions. Work may demonstrate excellence but less consistently than an ‘5’ student.

3 Satisfactory work. Student work addresses all of the project and assignment objectives with few minor or major problems. Graphics and models are complete and satisfactory, exhibiting minor problems in craft and detail.

2. Less than satisfactory work. Graphic and modelling work is substandard, incomplete in significant ways, and lacks craft and attention to detail.

1. Unsatisfactory work. Work exhibits several major and minor problems with basic conceptual premise, lacking both intention and resolution. Physical representation in drawing and models is severely lacking, and is weak in clarity, craft and completeness.

Grading Scale:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Numeric Grade: | 5 | 4 | 3 | 2 | 1 |
| Evaluation in points: | 88P-100P | 77P-86P | 66P-76P | 55P-65P | 0-54 |

**Students with Special Needs:**

Students with a disability and needs to request special accommodations, please, notify the Deans Office. Proper documentation of disability will be required. All attempts to provide an equal learning environment for all will be made.

**Readings and Reference Materials:**

**Required:**

***Ernst Neufert- Architects Data***

***-Constructing Architecture: Materials, Processes, Structures, Andrea Deplazes Publisher: Birkhauser; 1 edition (October 1, 2005)***

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archdaily.com | divisare.com | dezeen.com | contemporist.com | architonic.com