Budapest University of Technology and Economics
Faculty of Architecture
Department of Explorative Architecture

Comprehensive design I. – 2022-2023 / 2. – Integrated MSc and Masters' program

Information

for elaboration of the project

Comprehensive design is a two semester course. The task of the first semester – Comprehensive design I – is the elaboration of the projects program design, Comprehensive design II is for the detailed elaboration of the design.

The subject will be fulfilled through the student's work with the contribution of the department's consultants. The progress is followed by consultations, the presentation and critics in public and studio work-conversation. The design program is chosen and elaborated by the student and accepted by the department. The plans of the establishment have to be completed m=1:100, or m=1:200 with constant consultation of the associate departments as follows:

Parts of the project to be completed:

1. **Concept design**
2. **Preliminary design**
3. **Final design**

Detailed description of the design phases:

1. **Concept design**
   For the building site chosen by her/himself by the given program the student elaborates and presents the concept design. The content of the working phase is the following:
   1.1 Presentation of the building site chosen by the student – on 1 page with photos, another page with site plan showing the regulations of the site.
   1.2 Site plan m=1:500 on 1 page, containing:
   a./ the allocation of the establishments
   b./ the circulation of vehicles, transportation, people with different signs, with parking, loading ramps, the proposal for outer road connections of the plot
   c./ the allocation of the subsidiary establishments
   d./ marking the entrances, gates
   e./ the cardinal points
   f./ in case of extension and connecting to an existing building the connection possibility
   g./ in case of site sharing the planned new boundaries
   h./ the regulations of the site and the parameters of the building in a comparative table on the site plan.
   1.3 Disposition plan on 1 page (can be together with the site plan)– showing the ground floor with the main rooms, axis of columns, the function pattern/ flow diagram necessary for understanding.
   1.4 Perspective views, sketches from birds-view or photomontage on 1 page.

2. **Preliminary design**
   After the presentation and evaluation of the concept design, the student elaborates and presents the preliminary design
   2.1 Site plan m=1:500 on 1 page, containing:
   a./ the building site's boundaries, fences, gates, parking places

b./ the contour lines of the slope, the main level heights
c./ the connecting road system inside and outside the plot
d./ the cardinal points
e./ the planned buildings and objects of the plot with their names, main measures, and height dates
f./ the sign and names of roads, covered and green areas, the main level heights
g./ the height of ledge and ridge, the number of storeys
h./ tracks of the public utilities
i./ the circulation of vehicles, transportation, people with different signs
j./ eventual possible extension

2.2 Plans of each different levels m=1:200 containing:
a./ the cardinal points
b./ the main measures, (outer dimensions, axis of columns, height dates etc.)
c./ the doors, windows, gates
d./ constant fixtures and installations necessary for understanding
e./ the names and measures of the rooms
f./ the inner circulation of people and transportation

2.3 Sections m=1:200 with an elaboration corresponding with the plans necessary for understanding – at least 2 sections perpendicular to each other are necessary, it is recommended across the stairs, containing:
a./ marking the bearing structures and space separating structures
b./ the typical height measures
c./ the names of the structures and materials

2.4 Elevations m=1:200 at least 2 sides

2.5 Scale model – same scale as the site plan, marking the close surroundings and the slope conditions of the ground

3. <u>Final design</u>

After the presentation and evaluation of the preliminary design, the student elaborates and presents the final design, containing the tasks of the associate departments beyond the architectural task (structures, building constructions, building installation, construction technology). The detailed content of the design is the following:

3.1 Site plan m=1:500, content due to 2.1

3.2 Plans of each different level m=1:100, or in case of a greater building m=1:200 checked by the consultant, content due to 2.2, except for those:
a./ beyond the main dimensions contain the measures of each room
b./ doors with opening direction, windows with subdivisions
c./ marking the functional necessary installation
d./ the names, measures and coverings of the rooms
e./ marking the close surroundings

3.3 Sections m=1:100 with a number necessary for understanding – at least 2 sections perpendicular to each other are necessary, it is recommended across the stairs, containing:
a./ the typical height measures and the plan measures of the axis
b./ the level heights
c./ the names of the structures and materials, the order of layers
d./ the main equipment with greater need of space

3.4 All elevations m=1:100, or in case of a greater building m=1:200 checked by the consultant, m=1:200

3.5 Perspective views, street-views or montage of photos showing the volume of the building from at least two views with surroundings

3.6 Technical descriptions – due to the requirements of each consulting department, in following chapters:

a./ Architectural description, containing: the design concept, the order, capacity and environmental connections of the establishment and the building(s). The extension opportunity should be alluded to, the proposal and reason of landscaping, the building's floor plan (function), the bearing structure system, the architectural forming of volumes and elevations should be described.

b./ Description of structures

c./ Description building constructions

d./ Description of building installation

e./ Description of construction technology

Test

For practice planning skills and architectural, logical way of thinking there is one compulsory design tests during the semester. Since all necessary information will be given for completing the test, there is no need for previous preparation. The mark of the test counts 15% in the final mark of the course.

Other regulations, obtaining the final mark and the signature:

A./ Formal requirements: All drawings can be traditional hand- or CAD drawings or any other optional official scaled printed technique. The clear and correct technical presentation is important. For the mid-term and final plans, drawings A/3-A/2 sheets are recommended, the sheets can be at biggest 60x80 cm. The name of the author has to be marked on each plan. Only digital submission is required.

B./ Participation in 70% of the lessons is set as a condition. Only the active practice counts for presence. In case of absence from more than 30% of the total number of lessons the credits of the subject cannot be obtained.

C./ By the deadline due to the timetable the final project must be handed in – irrespectively of its readiness.

D./ One test with at least a pass mark. The 1st test is obligatory.

E./ The project submission is due to the faculty's regulation and enclosed timetable. In the mark of the final project architecture counts 60%, whereas the associate departments 10-10% each. The final mark is given from the weighted average of the final project and the results of the mid-term presentations.

7th February 2023.

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