

Architecture of Workplaces 2
1st semester 2020/2021

COURSE DESCRIPTION

The aim of the course is to summarize the acquired architectural-technical knowledge, to prepare for the complex architectural thinking before the Complex Design course, to develop independent thinking, capability of decision and cooperation in team work.

General formal requirements, technical presentation – formal requirements

During the semester the plans should be presented in a compact way, with aesthetic architectural elaboration, essential technical information suiting the scale of each design phase.

All drawings (mid-term presentation and final project) can be traditional hand- or CAD drawings or any other optional official scaled printed technique. The clear and correct technical presentation is important.

In case of all design phases the name of the task should be marked uniformly:

„Architecture of Workplaces 2 1st semester 2020/2021”

Furthermore **the actual design phase, date and the name of the author** (and the consultant) has to be marked in the heading on each plan.

The **design diary** helps a lot while designing and thinking. Research and examination of architectural, structural, references, examples, case studies, connected to the program, is enlightening. Furthermore it is very important collecting and getting familiar with materials fitting the architectural concept, and sorting sketches of the site and the building. There is no obligatory presentation of the design diary, therefore there is no formal requirement for it.

Evaluation

At the final evaluation of the subject the quality of the submitted final project, the results of the mid-term presentations and the quality of the students work throughout the semester will be considered. The final mark will be determined by the department's semester-ending Grading Conference, it is not necessarily the average of the separate marks given during the semester

Content and formal requirements

Teamwork of 2 students is obligatory the marks of the team members are the same.

There are three phases of the design task. The 1st phase is the completion of a documentation in scale 1:200, that is the preliminary design. After successful presentation of preliminary design the remaining part of the task is for development, specification of the project with the help of consultations.

1st Phase, concept design – digital presentation

a) Site plan m=1:500

you can find an aid on the department's website (<http://www.ipar.bme.hu/letoltesekek.php>)

b) Dispositional floor plan(s) m=1:500, (m=1:200) of each different floor, with the representation of:

- the main functional units
- spatial connections

- entrance positions
 - connection with the immediate surrounding
- c) **Volume section(s) m=1:500**, (m=1:200), at least 1 longitudinal section. In case of a more complicated building volume at least 2 sections perpendicular to each other are necessary. This should be a section of building and terrain together.
- d) **Axonometric, perspective view**
- sketch, model photo, or drawings representing the architectural character, can be traditional hand- or CAD drawings
- e) **Scale model m=1:500**
The base of the model should fit the building site. The scale model should be submitted in a stable cover due to the dimensions of the model. The name of the author has to be marked on the cover / box (in case allowed by measures due to COVID 19).

The concept design should be presented with the content above with a uniform graphical concept, due to formal requirements (title, name(s) of the author(s), format etc.).

The concept design must be presented in digital form during the class on 28th September 2020. Deadline for the email submission: 28th September 2020 12:00 o'clock. In case there is distance learning system by the time of submission, the presentation is online in MS Teams.

The design phase must be submitted/ presented on time due to the time schedule. Failed preliminary design must be replaced / repeated until the delayed submission due to the time schedule. **In case of missing the repeated submission deadline the credits of the subject cannot be obtained!**

2nd Phase, preliminary design – digital presentation

- a) **Site plan m=1:500**
you can find an aid on the department's website (<http://www.ipar.bme.hu/letoltetek.php>),
- b) **Floor plan(s) m=1:200** of each different floor, with the representation of:
- the names and measures of the rooms
 - the structural system
 - the load bearing structures and walls
 - the staircases, vertical communication cores
 - the doors, windows, gates, skylights
 - constant fixtures and installations necessary for understanding (built-in equipment, shelves, dressing room equipment)
 - the inner circulation of people and transportation
 - elements around the building
 - all other textual information.

Only the main structural dimensions should be indicated on the floor plans.

- c) **Section(s) m=1:200** – at least 1 longitudinal section. In case of a more complicated building volume at least 2 sections perpendicular to each other are necessary, with an elaboration corresponding with the plans necessary for understanding, containing:

- marking the bearing structures and space separating structures
- the structural system
- the typical height measures
- all other textual information.

Only the main structural dimensions and heights should be indicated on the sections.

d) **Elevations m=1:200** – at least 4 elevations, with the representation of:

- the characteristic articulation of the elevation
- the plasticity of the elevation
- the colour of the elevation
- the position and character of the doors, windows, gates, skylights
- the names of the materials
- all other textual information.

Two of the elevations should be prepared with colour graphic in order to represent the chosen materials, colours.

e) **Axonometric, perspective view**

- model photo, or drawings representing the architectural character, can be traditional hand- or CAD drawings

f) **Scale model m=1:200, 1:250** (in case allowed by measures due to COVID 19)

The base of the model should fit the building site. The scale model should be submitted in a stable cover due to the dimensions of the model. The name of the author has to be marked on the cover / box (in case allowed by measures due to COVID 19).

The preliminary design should be presented with the content above with a uniform graphical concept, due to formal requirements (title, name(s) of the author(s), format etc.).

The preliminary design must be presented in digital form during the class on 26th October 2020.

Deadline for the email submission: 26th October 2020 12:00 o'clock.

In case there is distance learning system by the time of submission, the presentation is online in MS Teams.

The design phase must be submitted/ presented on time due to the time schedule. Failed preliminary design must be replaced / repeated until the delayed submission due to the time schedule. **In case of missing the repeated submission deadline the credits of the subject cannot be obtained!**

3rd Phase, final design – printed form

On the base of the preliminary design's evaluation the task must be improved, modified. The final architectural and technical solutions will be elaborated.

By the final submission all previous preliminary presentations must be handed in.

a) **Site plan m=1:500**, with the representation of:

- the immediate surroundings of the plot, with the neighbouring buildings
- the height relations, contour lines
- the allocation of the designed establishments with names, number of floors, height, main dimensions and top view
- roof heights, levels of entrances, connecting floors and terrain

- the allocation of the subsidiary establishments
- road network, the circulation of vehicles, transportation, people with different signs, with parking, loading ramps, the proposal for outer road connections of the plot
- the inner roads for the personal and clients
- marking the entrances, gates
- the boundaries
- the cardinal points
- the green surfaces
- the regulations of the site and the parameters of the building in a comparative table on the site plan.

b) Floor plan(s) m=1:100 of each different floor, with the representation of:

- the names, measures and floor finishes of the rooms
- the structural system
- the load bearing structures and walls
- beyond the main dimensions contain the measures of each room
- the doors, windows, gates, skylights (doors with opening direction, windows with parapet heights, subdivisions)
- constant fixtures and installations necessary for understanding (built-in equipment, shelves, dressing room equipment)
- marking the functional necessary installation of offices, meeting rooms, kitchenettes...
- the inner circulation of people and transportation
- elements around the building
- the name of used materials and colours
- all other textual information.

c) Section(s) m=1:100, 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:

- marking the bearing structures and space separating structures with layers and the order of layers
- the structural system
- the typical height measures
- the forming of walls of the rooms in the section
- the names of the structures and materials
- the main equipment with greater need of space
- the connecting outer constructions, levels, sidewalks, retaining walls...
- the name of used materials and colours
- all other textual information.

Only the main structural dimensions and heights should be indicated on the sections.

d) Elevations m=1:100 at least 4 sides, with the representation of:

- the characteristic articulation of the elevation
- the plasticity of the elevation
- the colour of the elevation
- the position and character of the doors, windows, gates, skylights
- all elements, constructions mounted on the elevation
- the names of the materials

– all other textual information.

Two of the elevations should be prepared with colour graphic in order to represent the chosen materials, colours.

e) Perspective view

The perspective view should be a compiled, or freehand drawing representing the appearance and surroundings of the building. It can be a hand or CAD drawing.

f) Scale model m=1:200, 1:250 (in case allowed by measures due to COVID 19)

The base of the model should fit the building site. The scale model should be submitted in a stable cover due to the dimensions of the model. The name of the author has to be marked on the cover / box.

g) Digital form

The final design must be submitted in PDF form. Hand drawings should be digitalized as well!

The files should be indicated with the year and the name of the student(s).

eg.: 2018_John Small_Architecture_of Workplaces_2_Laboratory_ground floor.pdf

The final project must be submitted in digital form, bound pdf file, via e-mail as well.

mail: mh2palyazat@gmail.com

Deadline for digital submission: **Friday, 11th December 2020 12:00 o'clock**

h) Poster

Beside the detailed documentation a compressed sheet of A1 size containing all main elements of the project must be submitted as well. Submission is fulfilled with e-mail delivery, presentation is highly recommended, but not compulsory!

The final design should be presented with the above content with a uniform graphical concept, due to formal requirements (title, format etc.). The content and elaboration of the final project must fit the 1:100 scale.

The final project must be submitted in printed form (in case allowed by measures due to COVID 19).

The project must be submitted in digital form, bound pdf file, via e-mail as well.

mail: mh2palyazat@gmail.com

Deadline for the email submission: Friday, 11th December 2020 12:00 o'clock

In case there is distance learning system by the time of submission, the presentation is online in MS Teams.

Name of the files: group_name of authors_2020_MH2_function

Maximum file size: 25 MB

Please, consider that only, exclusively submissions sent as a bound pdf file for the above email address will be accepted as fulfilment! No downloading from drive, no separate files!

6th September 2020.

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