General Information:

Name of Course: # DIPLOMA DESIGN PROJECT

Course Code: PM-TESNE205
Semester: 10th
Number of Credits: 30
Allotment of Hours per Week: 4 Practical Lessons /Week
Evaluation: Signature (with grade)
Prerequisites: **Completed Building Structures and Complex Design**

Responsible lecturer:

Erzsébet Szeréna ZOLTÁN dr., associate professor
Office: 7624 Magyarország, Pécs, Boszorkány u. 2. B-319
E-mail: betty.zoltan@mik.pte.hu

Instructors:

András KERTÉSZ dr., full professor
Office: 7624 Hungary, Pécs, Boszorkány u. 2. No B-334
E-mail: kertesz.andras@avant-garde.hu

Krisztián KOVÁCS-ANDOR dr., associate professor
Office: 7624 Hungary, Pécs, Boszorkány u. 2. No B-334
E-mail: k-andor@mik.pte.hu

Tamás MOLNÁR dr., associate professor
Office: 7624 Magyarország, Pécs, Boszorkány u. 2. B-341
E-mail: tmolnar@mik.pte.hu

Anna Mária TAMÁS dr., associate professor
Office: 7624 Magyarország, Pécs, Boszorkány u. 2. B-341
E-mail: anima@mik.pte.hu

Péter ZILAHI dr., assistant professor
Office: 7624 Magyarország, Pécs, Boszorkány u. 2. B-327
E-mail: zilahi.peter@mik.pte.hu

Tibor DÁNYI dr., assistant professor
Office: 7624 Magyarország, Pécs, Boszorkány u. 2. B-322
E-mail: danyitiborzoltan@mik.pte.hu

Veronika HAJDU dr., assistant professor
Office: 7624 Magyarország, Pécs, Boszorkány u. 2. B-327
E-mail: hajdu.veronika@mik.pte.hu

Tamás RÁCZ dr., assistant professor
Office: 7624 Magyarország, Pécs, Boszorkány u. 2. É81
E-mail: racztam@gmail.com

General Subject Description

The Diploma Design Project is the last studio work in the Master of Architecture program, and is carried out as an individual design project during the final term. The course focuses on exploring a design problem, developing design skills and methodologies in a specific area of interest, and requests engagement in the researched are of design, delivering *socially and ecologically relevant architectural answers*.

Students have to be able demonstrate the acquired knowledge, creative design and problem-solving skills by discussing the Diploma Design Project in relation to contemporary concerns and in contemporary architectural context after completing the course. Hence it is not enough just to design a well-functioning building of high architectural quality, it is also important to understand the space, the genius loci and to find answers to current social problems as well. The students have to complete several planning phases to find the best solution and answer. In any case, the work starts with a detailed analysis and through its consequences the final design will be developed.

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

Learning Outcomes

The course will focus on:

- Individual design process, and development based upon relevant methodologies and design techniques
- complex architectural interrelations as demonstrating the progress in terms of understanding relevant functional needs, programming and construction techniques at the same time
- Bring questions and examine aspects of planning, human resources and legal concerns, all in direct relation to the specifics of design.
- Clear architectural communication at the presence of Professor's Group
- Carrying out within a specified time.

Subject content

This subject completes the study of the M.Sc. in Architecture program. It aims to assess students' knowledge and expertise, and determine whether they satisfy the requirements of a M.Sc. degree.

The Degree Project's course includes:
- Continuous consultation of the Diploma Design both with instructors in architecture and other related engineering fields (structure, mechanical engineering/HVAC system – relevant after week 10)
- The submission of the design and concept plan, complied with the formal requirements and their successful defense.
-The submission of the final design complied with the formal requirements.
- The submission of the thesis complied with the formal requirements
- In-depth diploma models (both urban and building scale)
-cd attachment

Methodology:
The course is based on individual architectural skills with regular consultations and presentations, showcases the knowledge and expertise gained in architecture, urban design, interior design, heritage protection, sustainability and structural competencies.

The Course includes:

- Regular (weekly) supervisions by tutors of the Architectural Institute. There are feedbacks by Main Supervisor after consultations and exams.
- Process Dairy Booklet (Sketch Book) which is assessed as part of the regular supervision by the Teacher contains sketches, ideas, the design process etc.
- 'Project Documentation' for planning permission of the designed building, as the summarize of the engineering working drawings documentation (ground plans, sections, elevations 1:100), and paper models (1:200). The drawing tasks must be backed up and attached on CD/DVD.

- Examinations in two stages (according the course outline).

Examination and evaluation system

In all cases. Annex 5 of the Statutes of the University of Pécs, the ***Code of Studies and Examinations (CSE) of the University of Pécs*** *shall prevail. https://english.mik.pte.hu/codes-and-regulations*

Methodology

The course is based on through collaboration, participation and discussions. This is an interaction between Students and Faculty; used the teaching methods like 'Problem-based learning' and 'learning-by-doing'. The course is based on individual architectural skills with regular consultations and presentations.

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.

Detailed requirements and schedule of the Course

Schedule

The semester is divided into three principle periods and attendant exercises:

1. Research phase - analyzing buildings of similar functionality, similar climate » helps developing and finalizing the design program, understanding the required spatial relationships, proportions of different functions, the coherence of functionality, structure and volume.

2. Conceptual phase- focus is on the massing, developing the volume and the connection to the urban setting or landscape, finding the right structures and architectural language

3. Design phase- development of the midterm/conceptual plan to the depth determined at the beginning of the semester - at least on a 1: 100 level with certain structural elements detailed even to 1:50, 1:20

Tasks and their requirements

1ST Presentation

Theme and program presentation
During the presentation, the committees clarify that the dissertation's topic and the dissertation is an acceptable task in terms of scale and content as a dissertation. Acceptance of the diploma topic will be noted. If the degree topic is not acceptable, then a new topic must be chosen and presented, and accepted in a corrective presentation no later than the 6th week of education.

The committee shall evaluate separately the work submitted:
a.) The suitability, up-to-date status, and social relevance of the function
b.) The thoroughness and processing of the planning program
c.) The processing, appearance, and graphic quality of the presentation.
The evaluation takes place in a "GO" - "NO GO" system. The works must fall into the "GO" category for both evaluation criteria to complete the semester. "NO-GO" jobs can be improved once a semester: they must be represented in the first week of the exam period.

Minimum formal and formal requirements of the presentation:
The installation plan must be prepared in tabular form and presented at the First Presentation. (2 boards laminated on foam board and also submitted digitally) (Online in case of pandemic)

The panels must be carefully made, aesthetically pleasing, and architecturally mature. Tables should be based on the published format, using its header and template. (approx. 45x100cm) The boards should be stacked on both sides of a 3mm foam board. (inflated with adhesive spray!).

The tables in Presentation 1 should include: (graphical, clear format)

- Presentation of the topicality, timeliness and social environment of the topic. Presentation of the possibilities of the proposal.
- A description of the operation, location and function needs, types, equipment, and special needs of the selected function.
- Presentation of a chosen environment with photographs and sketches, exploration of the history and traditions of the area.
- Preparation and presentation of the site analysis with schematic diagrams, flow charts, analytical maps, problem maps. (exploring the strengths and problems of an existing situation, assessing the value of a natural, built environment, approach, prospect of exploration, analyzing the morphology and vegetation of an area, etc.)
- Description of the architectural concept. Architectural responses to the problems raised.

- Architect's sheets processed on boards:
o Concept, analysis, schematics
o Location presentation
o Maps, figure-ground plans, district site plans
o Installation plan (site plan) M = 1: 500
o function scheme M = 1: 500
o Terrain sections, mass sections M = 1: 500
o Mass sketches

2nd Presentation / concept plan

concept plan - boards and mockup. The committee shall evaluate separately the work submitted:
a.) The architectural quality and correctness of the concept plan.
b.) The processing, appearance, and graphic quality of the presentation.
The evaluation takes place in a "GO" - "NO GO" system. The works must fall into the "GO" category for both evaluation criteria to complete the semester. "NO-GO" jobs can be corrected and replaced once during the exam period: they must be represented in the first week of the exam period.

Minimum formal and formal requirements of the Exhibition Concept 2 plan:
The concept plan must be prepared in tabular form and exhibited at the 2nd exhibition. (4 boards, laminated on four foam cartons and also submitted digitally) (Online in the event of a pandemic)
The panels must be carefully made, aesthetically pleasing, and architecturally mature. Boards should be based on the published format, using its header and template. (approx. 45x100cm) The boards should be stacked on both sides of a 3mm foam board. (inflated with adhesive spray!).

The concept plan tables should include:

- -Description of architectural concept illustrated with infographic graphics.
- -Architect's sheets processed on boards:
- -Concept table (with schematics, flowcharts…)
- -Location plan M = 1: 500-4000 (City, district, action on a territorial scale.)
- floor plans M = 1: 200,
- -typical sections M = 1: 200,
- - typical facade M = 1: 200,
- -mass sketches, visual designs (building scale)
- Layout:
o -M = 1: 200 scale by processing the building and its immediate surroundings. The mockup should be aesthetic and made with a representation appropriate to its scale.

3rd Presentation / Semester plan

Semester plan - boards and mockup. The committee shall evaluate separately the work submitted:
a.) The architectural quality and correctness of the semi-annual plan.
b.) The processing, appearance, and graphic quality of the presentation.
The evaluation takes place in a “GO” - “NO GO” system. The works must fall into the “GO” category for both evaluation criteria to complete the semester. “NO-GO” jobs can be corrected and replaced once during the exam period: they must be re-presented in the first week of the exam period.

Minimum formal and formal requirements of the Exhibition 3:
The concept plan should be prepared in tabular form and a3. exhibit. (Boards laminated on foam board and also submitted digitally) (Online in the event of a pandemic)
The panels must be carefully made, aesthetically pleasing and architecturally mature. The boards should be tailored to the degree defense, optimized for work and scale, but in a unique, free size and ratio format. Header should be designed using the issued templates. The boards should be stacked on both sides of a 3mm foam board. (inflated with adhesive spray!).

Minimum formal and formal requirements for the semester plan:
- -Concept table M = 1: 4000.1: 2000, 1: 1000 (Min 1 table)
- -Installation plan (site plan) M = 1: 500, (Min 1 board)
- -all floor plan M = 1: 100 (1 board per floor plan)
- -all main sections M = 1: 100 (drawn, not separated from 3d)
- -alll façades M = 1: 100 (drawn, not detached from 3d)
- -mass sketches, visual plans (Installation and building scale)
- -wall sections, (1: 20) (Min 1 board)
- -paper model (M = 1: 200) Exhibition 3. Semester plan

Semester plan - boards and mockup. The committee shall evaluate separately the work submitted:
a.) The architectural quality and correctness of the semi-annual plan.
b.) The processing, appearance, and graphic quality of the presentation.
The evaluation takes place in a “GO” - “NO GO” system. The works must fall into the “GO” category for both evaluation criteria to complete the semester. “NO-GO” jobs can be corrected and replaced once during the exam period: they must be re-presented in the first week of the exam period.

Minimum formal and formal requirements of the Exhibition 3:
The concept plan should be prepared in tabular form and a3. exhibit. (Boards laminated on foam board and also submitted digitally) (Online in the event of a pandemic)
The panels must be carefully made, aesthetically pleasing and architecturally mature. The boards should be tailored to the degree defense, optimized for work and scale, but in a unique, free size and ratio format. Header should be designed using the issued templates. The boards should be stacked on both sides of a 3mm foam board. (inflated with adhesive spray!).

Minimum formal and formal requirements for the semester plan:
- -Concept table M = 1: 4000.1: 2000, 1: 1000 (Min 1 table)
- -Installation plan (site plan) M = 1: 500, (Min 1 board)
- -all floor plan M = 1: 100 (1 board per floor plan)
- -all main sections M = 1: 100 (drawn, not separated from 3d)
- -all façades M = 1: 100 (drawn, not detached from 3d)
- -mass sketches, visual plans (Installation and building scale)
- -wall sections, (1: 20) (Min 1 board)
- -paper model (M = 1: 200)

Closing the semester:
The existence of the criteria is registered based on the attached student card. It records design, structural, professional, and dissertation consultations, acceptance of the diploma topic, GO / NO GO values , and improvements of the dissertation's presentations and internal evaluations after submission. The transparent documentation of the whole process is the goal here, linking the stages of the dissertation's development and the dissertation.

By obtaining each of the Go given based on the criterias (content, form and appearance) announced in the 3 presentations (+ improving them), students gain the right to sign, mid-term ticket, and submit their dissertation to the Institute. A student who misses any of the 3 GO ratings even after the opportunity for improvement will be deemed not to have completed the semester. The course will not be signed. The subject must be re-enrolled in a later semester.
When submitting the dissertations (Week 19), the Diploma Committee of the Institute examines formal and qualitative requirements for the dissertations (see below). In looking at the formal and qualitative requirements, the committee may take two decisions:
a.) If both internal reviews are positive, the thesis is accepted. You can defend your plan on the diploma defense. The committee may request minor corrections from the author of the dissertation.
b.) If both internal reviews are negative, the diploma thesis will not be accepted. This decision is made if the reviewer finds serious deficiencies in the formal and qualitative requirements. It can no longer be corrected, so the work in this form does not conform to the established system of requirements; the student must re-take the subject in a later semester.
c) If there is a difference of two evaluation between the internal judgments, the Institute will ask a third judge to clarify the situation.

Submission of the final diploma project:
The dissertation must be uploaded to the faculty registration interface, from where the judges can access and evaluate the dissertation. You can read about the evaluation process above. After a positive evaluation, the dissertation can be defended. In the case of online defense, dissertations should be presented in a detailed presentation.

Deadline for uploading: 11/06/2021. 8.00

Formal and formal requirements for the final diploma thesis to be submitted:
The diploma plan must be supplemented and further worked in poster form based on the approved semester plan. The panels must be carefully made, aesthetically pleasing and architecturally mature. The format of the boards is arbitrary, rigid, inflated on cardboard of at least 3 mm. (In case of pandemic situation online)

Formal requirements of the diploma project:

- -Concept table M = 1: 4000.1: 2000, 1: 1000 (Min 1 table)
- -Site plan) M = 1: 500, (Min 1 board)
- -all floor plans M = 1: 100 (1 board per floor plan)
- -all characteristic sections M = 1: 100 (drawn, not generated from 3d)
- -all façades M = 1: 100 (drawn, not generated from 3d)
- -mass sketches, visual plans (Installation and building scale)
- - wall sections, (M = 1: 25.1: 20) (Min 1 board)

- Text part (see diploma thesis subject)
- Building model M = 1: 200 (Occasionally different) High quality!)
- Setting model M = 1: 500 (Different in some cases) (High quality!)
- Detail model M = 1: 50 (Optional)
- summary table, / in the given format / / to be submitted for diploma defense /

Submission of thesis / diploma thesis June 11, 2021 8.00
Suppose the student has obtained a final certificate (dissertation) and wishes to submit his / her Thesis / Diploma Thesis, and received the signature. In that case, the thesis must also be digitally uploaded on the faculty side.
Final exam / Diploma defense
- Existence of a certificate of completion of the required studies,
- submission and acceptance of the diploma thesis by the deadline.
- Date: See Program by week, final information will be provided later.
- The student must apply for the final exam in written form at the faculty registration office!

The rough outline of the schedule is as follows:

Week 1: Submitting the diploma program study + site (it is suggested to have at least 1 function on 3 different locations – the tutors will consider and discuss +make suggestions: either accept with or without minor changes or to change the topic or the site or both (via email as PDF booklet to your tutor)

Week 2: Both the functional program and the site has to be accepted – last chance for changes in the topic (via consultation or submission of a new booklet, if the function was not acceptable according the tutors' feed-back)

Week 3: Setting, orientation, proportions – volume -– site model with surrounding 1:4000

Week 4-7: consultation and individual work

Week 8: Midterm Jury. 1st Presentation. – CONCEPT DESIGN (26th March)

Week 9 -14: Investigating the implementation of the suggested changes, optimizing the volume, spaces, structures, materials – extend the design with landscape and interior design details, working on the sustainability approach.

Application deadline for the diploma defense: 23rd April

Week 14: 2nd PERESENTATION – PRELIMINARY DESIGN (07th May) – signature

Week 16: Re-Review of unaccepted projects (last chance for a signature)

Week 16-19: Finalizing, Detailing and Finetuning the diploma work (individual work)

Week 19: Submitting the FINAL DESIGN PROJECT (11th June)

- Required content presented with printed posters:

o Thesis Booklet (detailed below)

o General Description of the Project (with analyses, function, architectural program, context and concept, presentation of building's site surrounding and adjacent public places)

o Site Plan (1:500) 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 stories h./ tracks of the public utilities i./ the circulation of vehicles, transportation, people with different signs j./ eventual possible extension

o Plan of each Different Level (1:100 or 1:200 – discussed by the supervisor) 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

o Sections (1:100 or 1:200 – discussed by the supervisor, in necessary number for understanding) 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

o Elevations (1:100 or 1:200 – discussed by the supervisor)

o Views (in necessary number for understanding, min. 3 about the inner and 3 about the outer spaces), in high quality design and graphic

o Interior Design Concept (views, details, render pictures, used materials and furniture etc.)

o Technical Details (1:10, 1:20, 1: 50 - discussed by the supervisor)

o Paper Models (1:100 or 1:200 about the building and the close environment, and 1:500 or 1.1000 with the built and natural environment)

Week 19: Submitting thesis – (19th June)

- The thesis is a written part of the diploma, where the concept and evolution of the project must be presented on the basis of a thorough research. The thesis should be illustrated with pictures, drawings and sketches besides textual parts. The thesis must be presented both theoretically and aesthetically, graphically on a high level.

Formal requirements:
Landscape A3 format with matte black cover, minimum 30 pages.

The thesis consists of 2 main parts:
a) description of the diploma work, (Minimum 20 pages), which must include:
-Analyzis of the environment with photos and sketches and description
Presentation of the selected type of building based on examples and descriptions.
- Description of the construction and structural and material concept and presentation of the plan
- plans, sketches, photos of draft models, parti diagrams.

- Presentation of applied structures and mechanical systems.
b) A3 extract of the diploma work sheets, model photos
- Formal and formal requirements of the CD Annex:
The diploma work must be digitally delivered on CD. Required content of the cd: The concept of semester and thesis work in pdf format, modeled photos in jpg format, text section in pdf format. The CD should be placed in a hard plastic case with an aesthetic cover! The cover should include the student's name, topic title, instructor and year of graduation, semester.

Week 21: DIPLOMA DEFENSE (between 21st-25th June)

The evaluation is in the GO-NO GO system (accepted/passed and failed /rejected). The prerequisite for obtaining the signature is that both presentations are accepted. Unaccepted presentation (s) may be corrected once in the first week of the exam period at the time and place announced by the course director.

Week 14 - Obtaining Signature (Y / N): - Missing 50% (for any reason), the semester is not completed, is not eligible for repairs
-if 2 GO, then Y, so signature
-if NO-GO, then N, so the signature is denied and redoing and presenting is needed before week 17.

Week 16 - Obtaining Signature (Y / N): -if GO, then Y, signature + grade.
-if NO-GO, then N, so the course isn't completed, the subject must be retaken the following semester.

We reserve the right to make changes to the details of this course syllabus (date / location / clarifications), which will be communicated to the students. In case of questions and problems that arise during the semester contact the responsible lecturer or the study program coordinator.

Erzsébet Szeréna ZOLTÁN DLA
responsible supervisor

Pécs, 31.01.2021