# General Informations:

**Curriculum: Furniture and Object Design**

**Name of Course: FURNITURE AND OBJECT DESIGN STUDIO, FURNITURE AND OBJECT DESIGN**

**Course Code:** EPM023AN-GY-01, EPE237AN-LA-01

**Semester:** 1

**Number of Credits:** 5, 3

**Allotment of Hours per Week:** 4 practice / 2 lab

**Evaluation:** mid-term grade

**Prerequisites:** No

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## General Course Description

*The design industry has responded to almost every structural challenge and has invented everything. The course helps students to find, organize and view these existing informations. Our institution has a close relationship with the most important representatives of the interior design industry, material manufacturers and design companies. Through this collaboration students can get up-to-date infor-mations. This give us the opportunity to base our teaching on the most advanced development results. During the semester they can also view certain lighting projects „in-situ”. Students are given the opportunity to consult professional firms within the practical lessons.*

*We are looking for answers to questions like: Interiors, colors, psychic effects and their conscious use. The quality and impact of space material on the user and conscious use of natural and artificial lighting.*

In this subject the focus is in the development in-depth project in order to allow the students in the understanding the form, integration and material through the exploration of new techniques and start to develop their personal products design direction. In consequence, the course underlines the communication an awareness of the commercial potential of the students works and the wide ranging career possibilities for the future.

## Learning Outcomes

Furniture and Object Design course combines a number of practical and theoretical activities within the semester. These include research, concept development, technical and manufactural knowledge, creativity, presentation and communication skills. A vital element of object design education is its role in preparing students for a career in industry. So, they will received throughout the semester the outcomes of experience instructors, who are active designers, who will bring in the classroom their extensive experience in the field. Creating the bridge between industry and education through a variety of activities, such as a study trips.

## Subject content

Lecture: 2

Practice: 4

Laboratory Practice: 0

The assignments and requirements will be issued according to the syllabus and will be uploaded to the course’s Neptune and MS Teams. Information related to the subject will also be available on these platforms, where the students can address their doubts related to the assignment.

**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://international.pte.hu/sites/international.pte.hu/files/doc/TVSZ%202022\_06\_23\_ENG.pdf](https://international.pte.hu/sites/international.pte.hu/files/doc/TVSZ%25202022_06_23_ENG.pdf)

Students have to participate on the lectures and on excursions. Unexcused absences will adversely affect the grade, and in case of absence from more than 30% of the total number of lessons, the student will fail the course. It is required to be in class at the beginning and stay until the scheduled end of the lesson, tardiness of more than 20 minutes will be counted as an absence. In the case of sickness or family emergency, the student must present a valid certificate.

**Attendance**

In accordance with the Code of Studies and Examinations of the University of Pécs, Article 45 (2) and Annex 9. (Article 3) a student may be refused a grade or qualification in the given full-time course if the number of class absences exceeds 30% of the contact hours stipulated in the course description.

Method for monitoring attendance: every class the Instructor will present the attendance sheet which must be signed by each students.

**Assessment**

*A.) Course resulting in mid-term grade (PTE TVSz 40§(3))*

**Mid-term assessments, performance evaluation and their ratio in the final grade** (The samples in the table to be deleted.)

|  |  |  |
| --- | --- | --- |
| **Type** | **Assessment** | **Ratio in the final grade** |
| *Case study* | *pl. max 20 points* | *eg: 15 %* |
| *Midterm presentation* | *pl. max 30 points* | *eg. 30 %* |
| *Final presentation* | *pl. max 40 points* | *eg. 45 %* |
| *Attendance* | *pl. max 10 points* | *eg. 10 %* |

**Opportunity and procedure for re-takes (PTE TVSz 47§(4))**

The specific regulations for improving grades and retaking tests must be read and applied according to the general Code of Studies and Examinations. E.g.: all tests and assessment tasks can be repeated/improved at least once every semester, and the tests and home assignments can be repeated/improved at least once in the first two weeks of the examination period.

**Requirements for the end-of-semester signature**

***Re-takes for the end-of-semester signature*** *(PTE TVSz 50§(2))*

*The specific regulations for grade betterment and re-take must be read and applied according to the general Code of Studies and Examinations. E.g.: all the tests and the records to be submitted can be repeated/improved each at least once every semester, and the tests and home assignments can be repeated/improved at least once in the first two weeks of the examination period.*

**Grade calculation as a percentage**

Based on the aggregate performance according to the following table.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Grade: | 5 | 4 | 3 | 2 | 1 |
|  | A, excellent | B, Good | C, avarage | D, satisfactory | F, fail |
| Performance in % | 85%-100% | 70%-84% | 55%-69% | 40%-55% | 0-39% |

## Readings and Reference Materials

Required:

[1.] Lawson Stuart, “Furniture Design: An Introduction to Development, Materials and Manufacturing”, Laurence King Publishing Ltd 2013, ISBN: 978-1-78067-120-8

[2.] Fiell Charlotte and Peter, “Design of the 20th Century”, Taschen, printed in Germany 1999, ISBN: 3-8228-5873-0

[3.] Orrom James, “Chair Anatomy: Design and Construction”, Publishing by Thames & Hudson Ltd 2018 in London, ISBN: 978-0-500-29594-6

Recommended:

[4.] Sam Booth, Drew Plunkett, “Furniture for interior design”, Laurence king publishing Ltd 2014, ISBN 978-1-78067-322-6

[5.] Fiell Charlotte and Peter, “Industrial Design A-Z”, Taschen, printed in China 2006, ISBN: 3-8228-5057-8

## Methodology

The course is based on continuous communication between teachers and students. For that reason, the professors will guide the students during the class through workshops and consultations showing different approaches to the object in developing.

The methodology:

1. Regular consultation during class time according to the syllabus announced in the detailed course programme.

2. Independent work during class time.

3. Independent work at home.

4. Independent research, data collection and analyses.

5. Case study presentation or experts’ interviews.

**Methodology and criteria:**

The problem solving methods used by the students models the real design process. Typically, the aim of product design research is to ask, to observe, think, and learn with objectivity from people who interact on day-today basis with products, spaces and systems. Once, the design research is completed, it is expected to produce new knowledge or understanding that improve the world, be that form that economic, social, cultural, or environmental perspective.

The semester task is to work through the following phases:

MODULE 1 - Analysis and concept design phase

In the first part of the course, students will be introduce the main task to realize during the semester. This time the goal is to design a sitting furniture. It could be a chair, an office chair, high chair, a folding chair, an armchair, a longhair, a rocking chair, a wing chair, a bench, a stool, a sofa, among other piece of furniture. The students must think in the branding of their products, which it will help to be recognizable and emotional resonance in consumers.

During this part of the semester the students will be introduced to different furniture and product design solutions, focusing in sitting pieces. Therefore, the lecturer will present to different topics related to the product design such as: Historical and cultural context, Research and concept design and Contemporary issues. At the end of this conceptual design phase, the design brief should be presented through scheme graphics, diagrams, sketches and the conceptual and prototyping paper models. It is recommending to keep all the documentation which is helping the developing of the idea.

MODULE 2 - Detail design

This module covers the key stages of transforming the chosen concept design into a fully detailed design with all the dimensions and specifications necessary to make the product specified on a detailed drawing. The goal is to have the enough detail documentation to provide the manufacturing phases. In this phase the student has to be capable to elaborate a complete manufacturing drawing set, which enable the understanding and identification how parts will be sourced and manufactured. This process, will provide the definition of components and sub-units of the furniture itself.

Each phase should be discussed at team level (students and consultants) during the class:

The students must assist class and participate with their presentations where the instructor could value innovative and thoughtful exploration and development of concepts through drawn, physical, and virtual sketching. This process allow to discuss among the students and professor about the projects itself and identify raising problems, analysis alternative solutions and consolidate and refined the students techniques, philosophy and style.

*Detailed requirements and schedule of the Course*

During the semester the students will be introduce different furniture examples from different periods in order to inspire them through the analysis of shapes, colors, materials, functionality and styles. This exploration may help them to think about the processes of innovation and engage with the challenge of being more systematic, more rational, more explicit and more critical. Every design project needs to show its relationship to precedents, historical and contemporary examples. It is fundamental the students could test their concepts, using a variety of established and proven techniques while also forging innovative approaches to the design process.

The goal of this semester is to challenge the students to design a sitting furniture. The project is individual, however they are allow to share their knowledge and personal experience in the classroom. The sitting furniture project must build a design language that fit for purpose, and not just be about an enclosed and narrow self-expression. So, it would be important that the student keep in mind the following questions and remarks during the design process:

* Who is this design for? It may be a group of users, or a business.
* Try to understand and display technical and material process.
* Faced with a set of rigorous criteria, evaluating the design work from an aesthetic, social, technical, cultural, philosophical, functional and marketing context. The furniture should fit in the marketplace.

## 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.

**Tasks and minimum requirements**

MODULE 1 - analysis and concept design phase

Minimum technical requirements for the task to be submitted:

Conceptual presentation of the furniture design:

Series of diagrams and drawing illustrating the analysis aspects and reference points (e. g.: ergonomics analyses)

Freehand drawings: Sketches (concept, thematic and schematic)

Technical drawings: 2D floorpans, sections and elevations.

Axonometric - Oblique projection drawings.

3D visualizations.

Mock-ups (physical model constructed from easily fabricated materials such as cardboard)

MODULE 2 - Detail design

Minimum technical requirements for the task to be submitted:

The students must create a poster according to the dimensions provide by the instructors. In this format it should be include all the relevant information (drawings, schemes, descriptions) to have a coherence and complete understanding of the concept and the final project design. The drawings and documentations of the furniture design it should be fully detailed with the dimensions and specifications necessary to make the product ready for the manufactory process.

POSTER. Final presentation of the furniture to hand in:

Concept plans.

Supplementary diagrams.

Floor plans, sections and elevations 1: 20 - 1: 10

Detail sections: 1: 5 - 1:1

Pictures of mock-ups

Paper models (optional)

Ensamble axonometrics

Renderings

Collages (optional)

## Schedule

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Lecture** | | | | |
| **week** | **Topic** | **Compulsory reading; page number**  **(from … to …)** | **Required tasks (assignments, tests, etc.)** | **Completion date, due date** |
| 1. | Semester welcome speech, introduction of the semester task | … | … | … |
| 2. | Historial and Cultural Context |  |  |  |
| 3. | Research and Concept Design |  |  |  |
| 4. | Materials and Manufactural processes |  |  |  |
| 5. | Consultation |  |  |  |
| 6. | Consultation |  |  |  |
| 7. | Constultation |  |  |  |
| 8. | Midterm presentation |  |  |  |
| 9. | Autumn break |  |  |  |
| 10. |  |  |  |  |
| 11. | Contemporary issues |  |  |  |
| 12. |  |  |  |  |
| 13. |  |  |  |  |
| 14. |  |  |  |  |
| 15. |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Practice/Laboratory Practice** | | | | |
| **week** | **Topic** | **Compulsory reading; page number**  **(from … to …)** | **Required tasks (assignments, tests, etc.)** | **Completion date, due date** |
| 1. | - |  |  |  |
| 2. | Research |  |  |  |
| 3. | Beginning to work with the concept |  |  |  |
| 4. | Concept figures, schemes graphics, analysis |  |  |  |
| 5. | Consultation of technical drawings, floor plans, sections, axonometric, sketches, etc. of the furniture prototype |  |  |  |
| 6. | Design process - ergonomics - functionality |  |  |  |
| 7. | Design process |  |  |  |
| 8. | MIDTHERM presentation |  | Digital presentation with the content specified in the syllabus | Week 8th by midnight each student must uploaded the presentation to MS Teams |
| 9. | Autumn break |  |  |  |
| 10. | Analysis of midterm presentation |  |  |  |
| 11. | Working in the furniture detail design |  |  |  |
| 12. | Consultation: Product subdivision. Furniture components. Materials. |  |  |  |
| 13. | Consultation: POSTER LAYOUT. Integration furniture parts. Materials. Assembly manufacturing drawings. |  |  |  |
| 14. | Final presentation |  |  | Week 14th by midnight each student must present their posters. |
| 15. |  |  |  |  |

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course director

Pécs, 05.09.2022