# General Information:

Name of Course: Descriptive Geometry 1.

Course Code: EPE132ANEM

Semester: 1st

Number of Credits: 4

Allotment of Hours per Week: 2 Lecture and 2 Practical Lessons /Week

Evaluation: Exam

Prerequisites: -

Responsible lecturer: Réka SÁRKÖZI, assistant lecturer

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Instructors: Réka SÁRKÖZI, assistant lecturer

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## General Subject Description

This lecture and practical based course aims to develop the skills of architecture students regarding the following topics, in frame of descriptive geometry: Application of imagery methods used in architecture and by related branches of building industry and civil engineering, internalizing of switching among these in frame of the descriptive geometry. Detection and application of relation of sizes regarding projected elements by use of geometrical constructions and imagery.

The studied imagery methods of this course are bases of the conventional axonometric projections, central projection like central axial collineation, orthogonal projections like Monge-system and multi view orthographic projection as well as bases of the contour map system.

## Learning Outcomes

The course will focus on architectural drawing types, like Monge-system, axonometric views and the connection of these projection types. Students have to learn the rules of technical drawing, understand the spatial objects based on these drawings and be able to apply their knowledge in architectural framework.

## Subject content

Students are required to complete homeworks, 2 presentations and 1 midterm task. Students have to participate on classes. They learn the theoretical bases on lecture, create drawings and consult about their midterm task on the practical lessons. The participation on the lectures and practices is necessary to pass the course.

## 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*

**Requirements in study period:**

The participation on the classes is obligatory. The maximum amount of the missed practical classes is 3 per semester due to the Study and Examination Regulations.

**The exercises and scores of the semester:**

Homework: max. 4\*5=20

Presentation: max. 2\*10 =20

Midterm task: max. 60 min. 30

max. 100 min. 50

**homework:**

deadline for maximum 5 points: next practical lesson

replacement for maximum 4 points: 2 weeks after deadline

**presentation:**

2 presentations held on the lecture classes for maximum 10 points

replacement for maximum 8 points: 15th week

**midterm task**

deadline for maximum 60 points: week 13 practice

replacement for maximum 50 points: week 15 practice

**Every task has digital submission on Microsoft Teams too.**

**If the student fulfills every requirement in the study period, it ends with an offered grade. If the student don’t accept the offered grade they have to take an exam. The student who doesn’t fulfill every requirement in the study period their signature will be denied.**

Grading Scale for the offered grade:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Numeric Grade: | 5 | 4 | 3 | 2 | 1 |
|  | A, excellent | B, good | C, avarage | D, satisfactory | F, Fail |
| Evaluation in points: | 85%-100% | 71%-84% | 60%-70% | 50%-59% | 0-49% |

**Requirements in exam period:**

If the student fulfills every requirement in the study period, and accepts the offered grade they have no other task in the semester. Students can replace the second midterm task in the first week of the exam period. If a student gets a signature but doesn’t accept the offered grade they have to take an exam.

If a student does not fulfill the tasks during the semester they have one opportunity to replace it in the first week of the exam period. The deadline will be specified by the lecturer. If a student replaces a task in the exam period they will not get offered grade and they have to take the exam in order to pass the course.

**Exam:**

maximum: 100 points

minimum 50 points

The exam will contain different drawing exercises from the curriculum.

The score of the exam will be added to the previous points, and the grade will be calculated based on that.

Grading Scale for the exam grade:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Numeric Grade: | 5 | 4 | 3 | 2 | 1 |
|  | A, excellent | B, good | C, avarage | D, satisfactory | F, Fail |
| Evaluation in points: | 85%-100%  (170-200 p) | 71%-84%  (142-169 p) | 60%-70%  (120-141 p) | 50%-59%  (100-119 p) | 0-49%  (0-99 p) |

## Readings and Reference Materials

Minor Clyde Hawk, Schaum's Outline of Theory and Problems of Descriptive Geometry

Julia McMorrough, Drawing for Architects

Francis D. K. Ching, Architecture – Form, Space and Order

Philip Jodidio:Architecture Now! 2001 Taschen

Schittich, C.2000. Single family houses: concepts, planning, construction Basel:Birkhhauser

## Methodology

The course is based on lectures and practical lessons. The students have to solve tasks on the practice and on their own.

## Schedule

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Classes in the semester 2018/2019. II**: | | | | |
| Code | Teacher | Day/time | Place | Note |
| Lecture | Réka Sárközi | Monday 7:45-9:15 | A201 |  |
| Practice 1 | Réka Sárközi | Monday 9:30-11:00 | A116 |  |
| Practice 2 | Réka Sárközi | Monday 14:00-15:30 | A116 |  |
| Practice 3 | Réka Sárközi | Tuesday 7:45-9:15 | A116 |  |

|  |  |  |
| --- | --- | --- |
| **Scedule of the semester** | | |
| **week** | **LECTURE** | **PRACTICE** |
| 1. | Introduction, Tools | Introduction, Teams, SketchUp |
| 2. | *Projection systems* | Consultation and independent work: task exposition |
| 3. | Site plan, *Monge, multi view, counturline* | Consultation and independent work: model building |
| 4. | Site plan – student presentation *drawing techniques: styles, vegetation* | Consultation and independent work: model building and site plan  homework: trees |
| 5. | Floor plan, *Axonometry* | Consultation and independent work: model building and floor plan  **wall and slab thickness** |
| 6. | Floor plan – student presentation *drawing techniques: technical drawing vs design focused presentation* | Consultation and independent work: floor plan homework: materials |
| 7. | Section, *Perspective* | Consultation and independent work: section |
| 8. | AUTUMN BREAK | |
| 9. | NATIONAL HOLIDAY | |
| 10. | Section – student presentation *drawing techniques: people* | Consultation and independent work: section homework: people |
| 11. | Elevation | Consultation and independent work: elevation |
| 12. | Elevation – student presentation | Consultation and independent work: axonometry homework: coating |
| 13. | Axonometry | Midterm task submission |
| 14. | Axonometry – student presentation | Consultation and independent work |
| 15. | Replacement | |

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.

Réka SÁRKÖZI

responsible lecturer

Pécs, 27.08.2021