

## Tárgytematika / Course Description Structural Engineering Project 1

EKNB\_SETA034

**Tárgyfelelős neve /**

**Teacher's name:** Cserpes Imre

**Félév / Semester:** 2023/24/1

**Beszámolási forma /**

**Assesment:** Folyamatos számonkérés

**Tárgy heti óraszám /**

**Teaching hours(week):** 2/1/0

**Tárgy féléves óraszám /**

**Teaching hours(sem.):** 0/0/0

---

### OKTATÁS CÉLJA / AIM OF THE COURSE

Within the framework of the subject, the Structure Construction Project 1. (setm034) is working on the preparation of a feasibility study of a specific engineering facility or structure. They prepare the technical chapters of the study and make a professional presentation on it. Based on the semester studies, they will be able to master the professional steps of project preparation. The students work in groups (2-3 people) on the task. The topic of the work comes from the topic of building construction and is complex in nature.

---

### TANTÁRGY TARTALMA / DESCRIPTION

Content of the course

1. Description of semester assignments.

Student introduction. Feasibility study steps for construction project. What Is a Feasibility Study?

2. Parts and structure of a feasibility study. Tools for Conducting a Feasibility Study. Why Write or Make a Feasibility Study?

*Choice of topic and presentation.*

3. Project participants and their tasks. – Project management.

4. Presentation of sample projects.

5. Design of industrial facilities. Structure system, material use advantages and disadvantages.

6. Design of a hall with a steel structure, structural systems.

7. Presentation of a prefabricated reinforced concrete frame hall.
  8. Project organization, schedules, budget.
  9. Structural foundation, soil properties.
  10. Technological systems, specialties - building electricity, building engineering.
  11. *Consultation (with student project)*
  12. Professional project presentation I., case study.
  13. Professional project presentation II., case study.
  14. Final report and rating
- 

## **SZÁMONKÉRÉSI ÉS ÉRTÉKELÉSI RENDSZERE / ASSESSMENT'S METHOD**

During the semester, students work on a group assignment. By the end of the semester, a final summary of the group assignment will be prepared, which will be evaluated jointly. The activity provided during the semester is of great importance in the evaluation system. Mid-term work is also valued as individual and group work. The evaluation takes into account the individual performances and the overall performance of the group.

---

## **KÖTELEZŐ IRODALOM / OBLIGATORY MATERIAL**

---

## **AJÁNLOTT IRODALOM / RECOMMENDED MATERIAL**