

Tárgytematika / Course Description

Structural Engineering Project 1

EKNB_SETA034

Tárgyfelelős neve /

Teacher's name: Cserpes Imre

Félév / Semester: 2022/23/1

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