

## Tárgytematika / Course Description Introduction to Civil Engineering

EKNB\_SETA031

**Tárgyfelelős neve /**

**Teacher's name:** dr. Ray Richard Paul

**Félév / Semester:** 2023/24/1

**Beszámolási forma /**

**Assesment:** Folyamatos számonkérés

**Tárgy heti óraszám /**

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

**Tárgy féléves óraszám /**

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

### OKTATÁS CÉLJA / AIM OF THE COURSE

#### Aim of the course:

The aim of this course is to learn the main characteristic of civil engineering (disciplines, scope of activities, toolbox) with the goal of developing the student's studies, personal and professional future from the beginning in a conscious and responsible way.

### TANTÁRGY TARTALMA / DESCRIPTION

#### Description

1. Basics, definition of basic notions, motivation measurement of the students by writing an essay
2. Discussion of disciplines and their connections by evaluation of a smaller and a larger project, discussion of the first task
3. Student presentation of the selected projects involving teachers (engineering structures, materials, geotechnics)
4. Student presentation of the selected projects involving teachers (road construction, environmental protection, hydraulic and urban engineering)
5. Exploration and examination of civil engineering activities – discussion of the second task (future plan)
6. Exploration of civil engineering activities by discussing the first task and a personal interview with a graduated student
7. Visiting a complex project and discussing about the structure and technology – the students write a report of it in groups
8. The basics of (civil) engineering thinking (requirements, abilities, tools, attitudes) with examples and involving students
9. Approaches of problem solving: the solution of a smaller problem (building damage) by brainstorming; solution of a larger classic problem (bridge building)
10. Presentation of solution of a civil engineering problem
11. Improving communication skills in groups – presentation and evaluation of previously discussed tasks
12. Discussion about the university studies with a second- or third-year student and a graduated student
13. Discussion with the civil engineering teachers
14. Planning of professional future by rewriting the essay from the first week

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

### **Assesment's method**

The grade is based on the quality of the tasks:

- essay about the future plan (1., 5., and 14. week)
  - 3 professional task fulfilled in groups (2., 7., and 11. week)
  - participation in class
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### **KÖTELEZŐ IRODALOM / OBLIGATORY MATERIAL**

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### **AJÁNLOTT IRODALOM / RECOMMENDED MATERIAL**