Tárgytematika / Course Description
Engineering Technologies

EKNB_SETA032

Tárgyfelelős neve / Teacher's name: Dr. Kegyes-Brassai Orsolya Katalin
Félév / Semester: 2023/24/2
Beszámolási forma / Assesment: Folyamatos számonkérés
Tárgy heti óraszáma / Teaching hours(week): 2/1/0
Tárgy féléves óraszáma / Teaching hours(sem.): 0/0/0

OKTATÁS CÉLJA / AIM OF THE COURSE

Goals of the course

The lectures discuss the content and methodological issues related to the implementation of engineering facilities. Aim is to get acquainted with the constructional mindset, toolbox and condition system. The subject prepares to participate in the implementation of complex engineering facilities.

TANTÁRGY TARTALMA / DESCRIPTION

Course description

Basic technologies. Mixing technologies, factors determining the quality of mixing.
Transport of materials. Horizontal transport, lifting materials, load diagram.
Construction methods. Incast construction technology.
Prefabrication. Lightweight construction. Assembly of steel structures.
Organization of construction. Participants in construction activities and their co-operation. Principles of organizational planning. Time planning.
Material preparation. Fracture, classification.
Building characteristics of line facilities. Railway construction.
Building characteristics of line facilities. Road construction.
Compressing materials, compacting devices.
Transfer or takeover of buildings. Documentation of the construction.

SZÁMONKÉRÉSI ÉS ÉRTÉKELÉSI RENDSZERE / ASSESMENT'S METHOD

Assessment methods

Students are expected to attend all classes. The requirement for obtaining signature at the end of the semester is a participation in at least 70% of the classes (10 out of 14 weeks).

All of them have to

- take two mid-term tests (2×50) and
- prepare a group project related to maintenance and operation (85)
- and there is also an optional assignment (15).

Evaluation - mid-semester assessment

Available scores in partial performance evaluation:

- two tests 2× 0-50
- project work, copulsory consultation, presentation 0-85
- optional assignment 0-15

Students can choose on their preferences if they want to hand in the optional assignment or not. However handling in the project work and taking eqaul part in preparing is the minimum requirement for obtaining signature.

However in case on late submission the maximum obtainable score is the 80 % of the total. Deadlines are available on the Moodle-site of the course: https://szelearning.sze.hu/course/view.php?id=373

Test should be written and minimum 50% of the score should be obtained.

Marking intervals				
...-99 failed	100 - 119 passed	120 - 139 satisfactory	140 - 159 good	160- excellent

So far assignments have to be accomplished until the exam period there is no possibility to hand in assignment in exam period. Latest possibility to hand in an assignment is the Friday of the first week of exam period until midnight. Later assignments will not be taken into account at marking.

If one of the test were not successful there is a possiblity to try again in exam period only once by signing up for an exam. Both test cannot be rewritten in exam period, this case would mean automatic failure. The time for exams will be given on Neptun.

Consultation is available within the time of the class and in another time agreed upon by a prior email.

All information concerning the course and all teahcing materials are available on Moodle-site of thew course. Official communication is trhough this site.

KÖTELEZŐ IRODALOM / OBLIGATORY MATERIAL

Reading

Tony Bryan: Construction Technology: Analysis and Choice; Publisher: Wiley-Blackwell Print ISBN: 9781405158749, 1405158743
eText ISBN: 9781118355329, 111835

Mike Riley: Construction Technology 2: Industrial and Commercial Building; Publisher: Palgrave Macmillan
Print ISBN: 9781137371690, 1137371692
eText ISBN: 9781137376008, 1137376007 Edition: 3rd 2014

AJÁNLOTT IRODALOM / RECOMMENDED MATERIAL