Tárgytematika / Course Description

Engineering Technologies

EKNB_SETA032

Tárgyfelelős neve / Teacher's name: Dr. Kegyes-Brassai Orsolya Katalin
Félév / Semester: 2020/21/2
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

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

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

Two mid-term tests and a group project related to construction technologies.

KÖTELEZŐ IRODALOM / OBLIGATORY MATERIAL

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