

Tárgytematika
Bridge construction
NGM_SE107_1

Tárgyfelelős neve: Teiter Zoltán

Félév: 2014/15/2

Beszámolási forma: Vizsga

Tárgy heti óraszám: 2/1/0

Tárgy féléves óraszám: 0/0/0

OKTATÁS CÉLJA

The aim of this module is to introduce students to the design and construction of bridges. This module covers the structural behavior of the main longitudinal and transverse bridge typologies, the fundamental design principles, and main construction procedures for short, medium and long span bridges.

TANTÁRGY TARTALMA

This module is intended to cover:

- The structural behaviour for the main longitudinal (such as beams, arches, cable-stayed bridges, and suspension bridges) and transverse (such as beams, slabs, and box girders) bridge typologies.
- The knowledge of behavior of prestressed concrete composite bridge decks, and steel-concrete composite bridge decks.
- The aim and usage rules of different bridge components and elements (such as parapets, waterproofing, drainage, bearings, joints, abutments, piers, etc).
- The main bridge construction procedures.

On successfully completing this course unit, students should be able to

- recognize and interpret the structural system of bridges, understand the structural behaviour of the different longitudinal and transverse bridge types;
 - select appropriate longitudinal and transverse schemes for particular cases;
 - determine the actions to be considered for the design of a bridge according to Eurocodes;
 - make difference among the types of bearings, joints, piers and abutments;
 - identify the special construction methods.
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SZÁMONKÉRÉSI ÉS ÉRTÉKELÉSI RENDSZERE

Assessments: coursework + examination

KÖTELEZŐ IRODALOM

N/A