

## Tárgytematika / Course Description

### Construction management 1

EKNB\_KETA021

Tárgyfelelős neve /

Teacher's name: dr. Borsos Attila

Félév / Semester: 2024/25/1

Beszámolási forma /

Assesment: Vizsga

Tárgy heti óraszám /

Teaching hours(week): 2/1/0

Tárgy féléves óraszám /

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

### OKTATÁS CÉLJA / AIM OF THE COURSE

This course covers the knowledge and application of project modeling techniques (Critical Path Method (CPM), Metra Potential Method (MPM), Program Evaluation and Review Technique (PERT)) and construction cost planning.

The goal of this course is that the student:

- has knowledge of project modeling techniques used in design and construction management, and ability to apply them
- has ability to evaluate the costs of a construction project

### TANTÁRGY TARTALMA / DESCRIPTION

Week	Date	Topic
1.	September 7	Introduction to the course
2.	September 14	Players of the construction industry Project chronology
3.	September 21	<i>Academic day, no class</i>
4.	September 28	Cost Estimating fundamentals
5.	October 5	Conceptual estimating
6.	October 12	Detailed estimating
7.	October 19	Assignment I.
8.	October 26	<b>Mid-term exam I.</b>
9.	November 2	Scheduling fundamentals, scheduling methods
10.	November 9	Gantt, CPM, MPM
11.	November 16	Gantt, CPM, MPM
12.	November 23	Scheduling in MS Project
13.	November 30	Assignment II.
14.	December 7	<b>Mid-term exam II.</b>

The above course schedule can be modified. In such cases students will be notified.

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## SZÁMONKÉRÉSI ÉS ÉRTÉKELÉSI RENDSZERE / ASSESSMENT'S METHOD

Two assignments must be submitted by the deadlines, which are:

Assignment #1: November 2. (Tuesday) 15.00

Assignment #2: December 7. (Tuesday) 15.00

All the details concerning the assignments will be provided in class. Late submission is possible within one week after the respective deadline with a 5% reduction. Submission after one week of delay is not possible.

### **Evaluation:**

Mid-term exams are worth 40% each, assignments 10% each.

51-64% sufficient (2)

65-74% satisfactory (3)

75-84% good (4)

85%- excellent (5)

If 51% is not reached based on the mid-term exams, a written exam covering all the materials (both mid-terms) must be taken in the exam period.

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## KÖTELEZŐ IRODALOM / OBLIGATORY MATERIAL

**Recommended literature:** Frederick E. Gould, 2012. Managing the construction process, 4<sup>th</sup> Edition, Pearson

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## AJÁNLOTT IRODALOM / RECOMMENDED MATERIAL