## Strength of Materials BMEEOTMAS41 2024-25, spring semester, BSc

week	Thursday 14.15-16.00	topic
1.	02. 13.	01. Repetition of the fundamental equations. The Euler-Navier beam
2.	02. 17. MONDAY 18.15-20.00 K.mf.78.	01. Boundary and continuity conditions of Euler-Navier beams
2.	02. 20.	06. Differential equations of Euler-Navier beams. Solution methods
3.	02. 27.	<b>Quiz 1.: Fundamental equations and the Euler-Navier beam</b> 09. Deflection diagrams for frames
4.	03.06.	Quiz 2.: Deflection diagrams for frames02. The potential energy. Kinematic degrees of freedom
5.	03. 13.	02. The theorem of potential energy. Examples
6.	03. 20.	Quiz 3.: The theorem of potential energy03. The complementary potential energy. Static indeterminacy
9.	03. 27.	<ul><li>03. The theorem of complementary potential energy. Examples.</li><li>04. Overview of energy theorems</li></ul>
10.	04. 03.	<b>Quiz 4.: The theorem of complementary potential energy</b> 07. Energy theorems for Euler-Navier beams under static loads
11.	04. 10.	08. Energy theorems for Euler-Navier beams under kinematic loads
12.	05. 08.	<b>Quiz 5.: Energy theorems for Euler-Navier beams</b> 11. Basics of stability analysis
13.	05.15.	12. Buckling of bars under compression
14.	05. 22.	Quiz 6.: Stability and buckling Preparation for the exam

Budapest, 02 February 2025.

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