

Strength of Materials
BMEEOTMAS41
2023-24, spring semester, BSc

week	Thursday 14.15-16.00	topic
1.	02. 15.	01. Repetition of the fundamental equations. The Euler-Navier beam
2.	02. 19. MONDAY 18.15-20.00	01. Boundary and continuity conditions of Euler-Navier beams
2.	02. 22.	06. Differential equations of Euler-Navier beams. Solution methods
3.	02. 29.	Quiz 1.: Fundamental equations and the Euler-Navier beam 09. Deflection diagrams for frames
4.	03. 07.	Quiz 2.: Deflection diagrams for frames 02. The potential energy. Kinematic degrees of freedom
5.	03. 14.	02. The theorem of potential energy. Examples
6.	03. 21.	Quiz 3.: The theorem of potential energy 03. The complementary potential energy. Static indeterminacy
9.	04. 11.	03. The theorem of complementary potential energy. Examples. 04. Overview of energy theorems
10.	04. 18.	Quiz 4.: The theorem of complementary potential energy 07. Energy theorems for Euler-Navier beams under static loads
11.	04. 25.	08. Energy theorems for Euler-Navier beams under kinematic loads
12.	05. 02.	Quiz 5.: Energy theorems for Euler-Navier beams 11. Basics of stability analysis
13.	05. 09.	12. Buckling of bars under compression
14.	05. 16.	Quiz 6.: Stability and buckling Preparation for the exam
15.	05. 23.	----- no class, due to 19 February -----

Budapest, 07 February 2024.

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