

STRUCTURAL ANALYSIS II
BMEEOTMAS42
Schedule of Lectures and Practice classes
2021-2022, 1st semester

week	LECTURE		PRACTICE	
	date	Subject	date	Subject
1.	08/09 09/09	Basic equations of Mechanics (bars and beams) Theory of beams. Analytical solutions		
2.	15/09	No Class (Sports Day)	16/09	The AXIS-VM program. Trusses and frames. 1st HW Frames
3.	21/09 22/09	Theory of beams. Analytical solutions Analysis of statically indeterminate frames by the matrix displacement method		
4.	29/09	The matrix displacement method (continued) Computation of grids	30/09	The AXIS-VM program. Plates and shells
5.	06/10 07/10	Computation of grids by Leonhard's method Plane problems I. The Airy stress function		
6.	13/10	Plane problems II. Plate problems.	14/10	LabTest I. Frames. Deadline of the 1st homework
7.	20/10 21/10	The classical theory of plates Navier method for thin plates Test I Moodle 18.00-19.00		
8.	27/10	The Mindlin plate model. Basics of shell theory	28/10	The FEM-Design program. Plates and slabs. The 2nd Homework (plate or slab)..
9.	03/11 04/11 05/11	The minimum theorem of potential theory. <i>The Ritz method</i> The Ritz method RE-Test I Moodle 18.00-19.00		
10.	10/11	The Ritz method . Basics of FEM	11/11	The FEM-Design program. Plates and slabs.
11	17/11 18/11	Basics of FEM. Coordinate systems Basics of FEM. Shape functions		
12.	24/11	Boundary conditions	25/11	The FEM-Design program. Frames.
13.	01/12 02/12	Modelization of structures Test II. Moodle 18.00-19.00		
14.	08/12	RE-Test II Moodle 18.00-19.00	09/12	LabTest II. Computation of plates and slabs. Deadline of the 2nd homework.

Budapest, September 1st, 2021.

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