Basics of Statics and Dynamics BSc 2024/25, spring semester

(Mon 10.15-12.00, K376 - Tue 12.15-14.00, KM78 - #Fri 12.15-14.00, K376)

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Week	Date	Торіс
1	Feb 10	a1: Introduction, vector operations, rectilinear motion of a particle
	Feb 11	a2-a3: Kinematics of a particle
2	Feb 17	1st home assignment. Topic: A1. Deadline: 19 Feb
	Feb 17	a3: Kinematics of rigid bodies, Newton's laws
	Feb 18	a4: Kinetics of particles, Work-Energy theorem
	Feb 21	a5: Moment of forces, couple
	Feb 21	2nd home assignment. Topic: A2. Deadline: 24 Feb
3	Feb 24	3rd home assignment. Topic: A3. Deadline: 26 Feb
	Feb 24	a6: Resultant of force systems, centroid of 2D objects
	Feb 25	a7: Resultant of distributed forces
	Feb 28	4th home assignment. Topic: A4. Deadline: 3 Mar
4	Mar 03	5th home assignment. Topic: A5-A6. Deadline: 5 Mar
	Mar 03	a8: Kinetics of rigid bodies, tip-over analysis
	Mar 04	B1: Constraints, reactions of simple structures
	Mar 07	B2: Reactions of simple structures
	Mar 07	6th home assignment. Topic: A7-A8. Deadline: 10 Mar
5	Mar 10	B3: Statical determinacy, reactions of compond structures
	Mar 11	B4: Gerber girders
6	Mar 17	B5: Reactions of three hinged frames, statical determinacy
	Mar 18	B6: Truss analysis I.
	Mar 21	B7: Truss analysis II.
7	Mar 24	consultation (B)
	Mar 25	TEST 1 (B)
8	Mar 31	C1: Internal forces
	Apr 01	repetition test 1 (B)
	Apr 04	(Vásárhelyi Day)
9	Apr 07	C2: Internal force diagrams, basic cases
	Apr 08	C3: Internal force diagrams of cantilever beams
10	Apr 14	C4: Internal force diagrams of simply supported beams
	Apr 15	C5: Internal force diagrams of Gerber beams
	Apr 18	(Good Friday)
	Apr 21	(Easter Monday)
	Apr 22	(Spring break)
12	Apr 28	C6: Internal force diagrams of frames
	Apr 29	repetition test of home assignments
	May 05	C7: Internal force diagrams of compound frames
12	May 06	Consultation (C)
	May 09	A9: Forces in 3D
	May 12	TEST 2 (C)
13	May 13	B8: Structures in 3D
	May 19	C8: Internal forces in 3D
14	May 20	repetition test 2 (C)
	May 23	consultation for exam

January 23, 2025

Trung Hoang (lecturer)

Flórián Kovács (lecturer)