

The Discrete Element Method

BMEEOTMMN64

2024-2025 Spring Semester

	Thursday 17.15-19.00 KM 63	Topic
1.	13. Feb.	Lecture: Introduction to DEM. Main steps of the analysis
2.	20. Feb.	Lecture: The equations of motion. Overview of numerical methods
3.	27. Feb.	Lecture: BALL-type models
4.	06. Mar.	Lecture: UDEC and 3DEC
5.	13. Mar.	Test 1.: Fundamentals of DEM Homework topic selection
6.	20. Mar.	HW presentations #1: The chosen problem (5pt) Lecture: The DDA method
7.	27. Mar.	HW presentations #2: Geometry (10pt)
8.	03. Apr.	HW Consultation Lecture: The Contact Dynamics method
9.	10. Apr.	HW presentations #3: Materials, supports and loads (10pt)
10.	17. Apr.	----- spring holidays
11.	24. Apr.	----- spring holidays
12.	01. May	----- public holiday
13.	08. May	HW presentations #4: Simulation results (10pt) Lecture: Munjiza's FEM/DEM
14.	15. Apr.	HW submission. (15pt)
15.	22. May	Test 2.: Advanced DEM methods

Budapest, 02 Feb 2025.

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lecturer