

Mon 1st March - Fri 16th Apr 2021 - Advanced soil mechanics D, GEO-E2010

Week	Lectures: Mon & Wed 10:15 am, online https://aalto.zoom.us/j/7791646359		Exercises and tutorials: Tue & Thu 10:15 am, online, see MyCourses for links other than for WS	
9	1.3	L1 Introduction / soil structure and microstructure	2.3	Laboratory exercise online session 1 (ML)
	3.3	L2 Soil structure and microstructure, real soil behaviour	4.3	Design exercise: slope stability (HG)
10	8.3	L3 Soil Modelling, Mohr-Coulomb & Elastic models for soils	9.3	T1 Mohr Coulomb Model (WS, AG)
	10.3	L4 Limit analysis L5 Slope Stability	11.3	9:15 T: Q&A before test 1 (WS)
			11.3	C1 Settlements 1 (HG, AG)
	12.3. Friday 12.15 Slope Stability exercise- Geocalc test etc. online session 2 (HG)			
12.3. Friday 14.15 Laboratory exercise Q&A online session 2 (ML)				
11	15.3	Test 1 (L1-3) L5 Slope Stability	16.3	C2 Settlements 2 (HG, AG)
	17.3	L6 Earth pressures & retaining walls	18.3	C3 Sheet pile wall (HG, AG)
12	22.3	L7 Water flow and seepage	23.3	C4 Water flow & seepage (WS, AG)
	24.3	L8 Critical State soil Mechanics L9 Modified Cam Clay Model	25.3	9:15 T: Q&A before test 2 (WS)
			25.3	L 9-10 Modified Cam Clay Model and SCLAY-1 model (WS)
	26.3 Deadline for the return of the laboratory exercise (ML)			
13	29.3	L10 SCLAY-1 model (WS) Test 2 (L 4-7)	30.3	T2 Modified Cam Clay Model (WS,AG)
	31.3	L11 Risk based design (Daniel Castillo)	1.4	T3 SCLAY-1 model (WS)
14	5.4	<i>Easter Monday</i>	6.4	9:15 T: Q&A before test 3 (WS)
				L12 Interaction between soil and structures
	7.4	Test 3 (L8-13) (other date, to be discussed, Thu 8.4)	8.4	C5 Soil - structure interaction (WS, AG)
		9.4	Deadline for return of the design exercise (HG)	

Grading: 1/2 lecture , 1/6 lab, 1/6 exercise (C1-C5), 1/6 design exercise. **Teachers:** WS – Wojtek Sołowski (use link <https://aalto.zoom.us/j/7791646359> for all classes), HG – Henry Gustavsson, ML – Monica Löfman, AG – Abhishek Gupta,

Class codes: L – lecture, C – calculation exercise (graded), T – tutorial (not graded). **Note that some exercise and lecture sessions may not be recorded, or recorded only partially.**

Small changes possible, please follow MyCourses!