

# ROCK MECHANICS

Version 3.10.2022

Lecture	Date	Lectures and exercises	Place	Lecturer
1	2022-09-05	Rock Mech course intro, Development of RM	R5	Mikael
	Mon 9:15	Intact rock strength and deformation	R5	Mikael
2	2022-09-06	Shear behaviour of discontinuities, RM classification	R5	Mikael
	Tue 8:15	Rock mass classification (RQD and Q)	R5	Mikael
3	2022-09-09	Rock mass classification (RMR and GSI )	R2	Mikael
	Fri 10:15	Rock mass strength and deformation	R2	Mikael
EX 1	2022-09-12	Exercise: Intact rock properties, Rock mass classification (9:15-12:00)	R5	Juha
4	2022-09-13	<i>In situ</i> and induced stresses and measurements	R5	Mikael
	Tue 8:15	Failure of intact rock and rock mass	R5	Mikael
5	2022-09-16	Principles of Rock Mechanical design	R2	Mikael
	Fri 10:15	Overview of underground mining methods	R2	Mikael
EX 2a	2022-09-19	Core logging: Group 1 (8:00), Group 2 (9:00), Group 3 (10:00)	R9	Juha, Otto
6	2022-09-20	Overview of underground mining methods	R5	Mikael
	Tue 8:15	Mining method selection	R5	Mikael
EX 2b	2022-09-21	Tunnel Mapping, Group 1 and Group 2 (8:15-10:00 and 14:15-16:00)	Tunnel	Otto, Juha
EX 2b	2022-09-22	Tunnel Mapping, Group 3 (14:15-16:00)	Tunnel	Otto, Juha
7	2022-09-23	Tunnel stability analysis (ground reaction curve)	R2	Mikael
	Fri 10:15	Rock support overview	R2	Mikael
EX 3	2022-09-26	Rock mass properties (9:15-12:00)	R5	Juha
8	2022-09-27	Stability graph	R5	Mikael
	Tue 8:15	Slope stability and failure	R5	Mikael
Mod 1	2022-09-28	DIPS, Group A (8:15-10:00)	MaariE	Juha
Mod 1	2022-09-29	DIPS, Group B (14:15-16:00)	MaariE	Juha
9	2022-09-30	Slope stability and failure	R2	Mikael
	Fri 10:15	Shotcrete	R2	Mikael
EX 4	2022-10-03	Mining Method Selection, Open stope design with Stability Graph (9:15-12)	R5	Juha
10	2022-10-04	Shotcrete	R5	Mikael
	Tue 8:15	Rockbolts, cable bolts	R5	Mikael
Mod 2	2022-10-05	FEM/RS2, Group A (8:15-10:00)	MaariE	Juha
Mod 2	2022-10-06	FEM/RS2, Group B (14:15-16:00)	MaariE	Juha
11	2022-10-07	Backfill	R2	Mikael
	Fri 10:15	Remote sensing methods for rock mass characterization	R2	Mateusz
EX 5	2022-10-10	Support Design (9:15-12:00)	R5	Juha
12	2022-10-11	Numerical methods to analyze rock mass stability	R5	Mikael
	Tue 8:15	Numerical methods to analyze rock mass stability	R5	Mikael
Mod 3	2022-10-12	UNWEDGE Group A (8:15-10:00)	MaariE	Juha
Mod 3	2022-10-13	UNWEDGE Group B (14:15-16:00)	MaariE	Juha
13	2022-10-14	Monitoring of rock mass performance	R2	Topias
	Fri 10:15	Monitoring of rock mass performance	R2	Topias