Engineering Geology								
Course No.	Course Title	Weekly teacing hours	Weekly tutorial hours	Weekly lab hours	Field Exc.	No. of Credits	Semester	
201-1 909 1	Introduction to Probability A	2	1	-	-	2.5	А	
201-1 914 1	Calculus C1	4	2	-	-	5	Α	
201-1 915 1	Calculus C2	4	2	-	-	5	В	
201-1 928 1	Introduction to Linear Algebra C	3	1	-	-	3.5	В	
201-1 942 1	Introduction to Statistics A	2	1	-	-	2.5	В	
206-1 207 1	Introduction To Geomechanics	2	1	-	-	2.5	А	
206-2 392 1	Rock Mechanics	2	1	-	-	2.5	А	
374-1 102 1	Introduction to Structural Mechanics	3	2	-	-	4	А	
374-1 105 1	Strength of Materials 1 for Structural Engineers	3	2	-	-	4	В	

Required
courses for
acceptance to
the Engineering
track, for
students with a
first degree in
geology/geophys
ics. No credits
towards MSc
awarded for
these courses

Required courses for acceptance to the Engineering track for students with קורסי חובה הנדרשים לקבלה למגמה הנדסית לתלמידים שסיימו a first degree in Engineering. No credits granted towards MSc

206-1 103 1	Introduction to Mineralogy and						
	Rocks	2	1	2	2	4	Α
206-1 104 1	Introduction to Dynamic						
	Geology	2	-	2	2	3.5	В
206-1 207 1	Introduction To Geomechanics	2	1	-	-	2.5	Α
206-1 225 1	Mapping	2	-	-	6	3.5	В
206-1 304 1	Introduction to Geophysics	2	1	-	-	2.5	А
206-1 309 1	Plate tectonics	2	1	-	-	2.5	В
206-2 392 1	Rock Mechanics	2	1	-	-	2.5	А

required courses within thedepartment for the Engineering Geology track (6.25(נק"ז) 6.25 נק"ז) 6.25 נק"ז (credits

Course No.	Course Title	Weekly teacing hours	Weekly tutorial hours	Weekly lab hours	Field Exc.	No. of Credits	Semester
206-2 386 1	Rock Tunneling	2	-	-	1	2.25	В
206-2 387 1	Rock Slope Stability	2	1	-	2	3	А
206-2 426 1	Seminar A	2	-	-	-	0	Α
206-2 427 1	Seminar B	2	-	-	-	0	В
206-2 432 1	Research Seminar	1	-	-	-	1	В
206-2 534 1	Seminar C	2	-	-	-	0	A,B
206-2 888 0	Research	-	-	-	ı	15	A,B

required courses outside the department, for the Engineering Geology track (2.5 credits)

374-1 304 1 Foundation Engineering	g 2	1	_	_	2.5	В
or + 190+1 Touridation Engineerii	9 2	<u>'</u>			2.0	

)Elective courses for the Engineering Geology track (3.25 credits)

201-1 946 1	Ordinary Differential Equations						
	for ME	3	1	-	-	3.5	Α
202-1 903 1	Computer Programming in CB	3	2	-	-	4	A/B
202-1 301 1	Introduction to Numerical						
	Analysis	4	1	-	-	4.5	A/B
206-2 393 1	Earthquake Science	4	-	-	-	4	Α
206-2 402 1	Earthquake Science	2	-	-	-	2	Α
206-2 450 1	Petroleum Geology	3	-	-	-	3	Α
206-2 485 1	Advanced Field Geology	2	-	-	6	3	В
206-2 524 1	Seismic Hazards	2	-	-	-	2	В
206-2 540 1	Geomorphology: Mechanics						
	and Evolution of Landscapes	3	2	-	2	4.5	Α
206-2 506 1	Oil and Gas Reservoir						
	Engineering	2	-	-	-	2	В
206-2 620 1	Petrophysics and Well Logging	2	-	1	-	2.5	Α
206-2 609 1	Introduction to exploration geophysics	3	-	-	-	3	В

Course No.	Course Title	Weekly teacing hours	Weekly tutorial hours	Weekly lab hours	Field Exc.	No. of Credits	Semester
206-2 618 1	Basin and Petroleum Systems Modeling: Applications for Conventional and Unconventional Pet	1				1	А
362-1 222 1	Dynamics	3	2	-	-	4	Α
362-1 605 1	Structural Dynamics	3	-	-	-	3	Α
374-1 208 0	Or- Structural Dynamics	3	2	2	-	5	Α
362-1 231 1	Mechanics of Fluids 1	3	1	-	-	3.5	В
362-1 311 1	Introduction to the Theory of Elasticity	3	-	-	-	3	А
374-1 306 1	Theory of Elasticity	3	-	-	-	2.5	
374-1 108 1	Structural Analysis I	2	2	-	-	3	В
374-1 201 0	Strength of Materials 2 for Structural Engineers	3	2	-	-	4	А
374-1 202 0	Structural Analysis II	2	2	-	-	3	Α
374-1 401 1	Numerical Methods in Structural Engineering	2	2	-	-	3	
374-1 411 2	Tunneled Protective Structures	2	-	-	-	1.5	В

* equivalent

Note: Additional electives with approval of supervisor. 15 additional credits in the department (or engineering, mathematics or