

31.07.2025 tarih ve 870 Sayılı Eğitim Komisyonu Kararı Eki-2-A

TABLO 1
ÖĞRETİM PROGRAMI TABLOSU
HACETTEPE ÜNİVERSİTESİ MÜHENDİSLİK FAKÜLTESİ
JEOLOJİ MÜHENDİSLİĞİ BÖLÜMÜ (Hidrojeoloji Mühendisliği Öğretim Programı)

GÜZ						BAHAR					
	T	P	K	AKTS	Şube sayısı		T	P	K	AKTS	Şube sayısı
1. YARIYIL						2. YARIYIL					
ZORUNLU DERSLER LİSTESİ						ZORUNLU DERSLER LİSTESİ					
JEO154 BİLGİSAYAR PROGRAMLAMA	3	0	3	3	2	FİZ138 FİZİK II	4	0	4	5	
FİZ137 FİZİK I	4	0	4	5		FİZ117 GENEL FİZİK LABORATUVARI	0	3	1	2	
İNG127 TEMEL İNGİLİZCE I	3	0	3	3		İNG128 TEMEL İNGİLİZCE II	3	0	3	3	
JEO153 FİZİKSEL JEOLOJİ I	2	1	3	4	2	JEO152 FİZİKSEL JEOLOJİ II	3	3	4	6	2
KİM109 KİMYA I	4	0	4	5		KİM110 KİMYA II	4	0	4	5	
KİM119 KİMYA LAB.I	0	3	1	2		MAT108 MATEMATİK II	4	0	4	5	
MAT107 MATEMATİK I	4	0	4	5		TKD104 TÜRK DİLİ II	2	0	2	2	
TKD103 TÜRK DİLİ I	2	0	2	2		BEB650 TEM. BİLGİ İLETİŞİM TEKN. KULL.	0	2	1	2	
HİD154 HİDROJEOLOJİ MÜHENDİSLİĞİNE GİRİŞ	1	0	1	1	2						
TOPLAM ZORUNLU DERS	23	4	25	30		TOPLAM ZORUNLU DERS	20	8	23	30	
SEÇMELİ DERSLER LİSTESİ						SEÇMELİ DERSLER LİSTESİ					
TOPLAM SEÇMELİ DERS			0	0		TOPLAM SEÇMELİ DERS			0	0	
YARIYIL TOPLAM			25	30		YARIYIL TOPLAM			23	30	
3. YARIYIL						4. YARIYIL					
ZORUNLU DERSLER LİSTESİ						ZORUNLU DERSLER LİSTESİ					
AİT203 ATA. İLK. VE İNK. TAR. I	2	0	2	2		AİT204 ATA. İLK.VE İNK.TAR II	2	0	2	2	
HİD251 AKIŞKANLAR MEKANIĞI	3	0	3	4	2	HİD252 HİDROLOJİ	2	2	3	5	2
HİD253 TERMODİNAMİK İLKELERİ	2	0	2	2	2	HİD254 GÖZENEKLI ORTAM HİDROLİĞİ	2	0	2	4	2
JEO263 YAPISAL JEOLOJİ	3	2	4	5	2	JEO264 STRAT-SEDİMANTOLOJİ	3	2	4	5	2
JEO265 MİNERALOJİ	3	2	4	6	2	JEO266 PETROGRAFI	3	2	4	6	2
MAT 248 DİFERANSİYEL DENKLEMLER	4	0	4	5	2	JEO270 STATİK VE MUKAVEMET	3	0	3	5	2
TOPLAM ZORUNLU DERS	17	4	19	24		TOPLAM ZORUNLU DERS	15	6	18	27	
SEÇMELİ DERSLER LİSTESİ						SEÇMELİ DERSLER LİSTESİ					
TOPLAM SEÇMELİ DERS			4	6		TOPLAM SEÇMELİ DERS			2	3	
YARIYIL TOPLAM			23	30		YARIYIL TOPLAM			20	30	
5. YARIYIL						6. YARIYIL					
ZORUNLU DERSLER LİSTESİ						ZORUNLU DERSLER LİSTESİ					
MUH 103 İŞ SAĞLIĞI VE GÜVENLİĞİ I	1	0	1	1	30	MUH 104 İŞ SAĞLIĞI VE GÜVENLİĞİ II	1	0	1	1	30
HİD351 FİZİKSEL HİDROJEOLOJİ	2	2	3	5	2	HİD350 HİDROJEOKİMYA	3	0	3	3	2
HİD354 İSTATİSTİKSEL HİDROLOJİ	3	0	3	4	2	HİD353 TAŞINIM SÜREÇLERİ	2	0	2	3	2
JEO357 KAYAÇ MEKANIĞI	2	1	2	4	2	HİD316 HİDROJEOLOJİDE JEOFİZİK YÖNT.	2	2	3	3	2

JEO359 SAHA JEOLJİSİ	2	6	4	5	2	JEO358 TOPRAK MEKANİĞİ	2	1	2	4	2
MAT307 NÜMERİK ANALİZ	4	0	4	5	2	JEO302 JEOLJİK HARİTA ALMA ÇALIŞMASI	2	6	4	5	6
HİD361 MESLEKİ İNGİLİZCE-I	2	0	2	2	2	HİD342 STAJ (30 iş günü)	0	8	4	6	20
						HİD362 MESLEKİ İNGİLİZCE-II	2	0	2	2	2
TOPLAM ZORUNLU DERS	16	9	19	26		TOPLAM ZORUNLU DERS	14	17	21	27	
SEÇMELİ DERSLER LİSTESİ						SEÇMELİ DERSLER LİSTESİ					
TOPLAM SEÇMELİ DERS			4	4		TOPLAM SEÇMELİ DERS			2	3	
YARIYIL TOPLAM			23	30		YARIYIL TOPLAM			23	30	

7. YARIYIL						8. YARIYIL					
ZORUNLU DERSLER LİSTESİ						ZORUNLU DERSLER LİSTESİ					
HİD451 YERALTISUYU MÜHENDİSLİĞİ	3	0	3	3	2	JEO452 MÜHENDİSLİK JEOLJİSİ	3	0	3	5	2
HİD453 YERALTISUYU SONDAJ TEKNİĞİ	2	0	2	2	2	HİD456 HİDROJEOLJİK TASARIM VE PROJELENDİRME II	0	4	2	2	20
HİD459 HİDROJEOLJİK TASARIM VE PROJELENDİRME I	0	4	2	2	20	HİD418 SU KAYNAKLARI MEVZUATI VE MESLEK ETİĞİ	1	0	1	1	2
* MUH401 ÇOK DİSİPLİNLİ PROJE ÇALIŞMASI	0	2	1	1	13						
TOPLAM ZORUNLU DERS	5	6	8	8		TOPLAM ZORUNLU DERS	4	4	6	8	
SEÇMELİ DERSLER LİSTESİ						SEÇMELİ DERSLER LİSTESİ					
TOPLAM SEÇMELİ DERS			8	22		TOPLAM SEÇMELİ DERS			8	22	
YARIYIL TOPLAM			16	30		YARIYIL TOPLAM			14	30	
GENEL TOPLAM									167	240	
ZORUNLU DERS KREDİSİ									137	180	
SEÇMELİ DERS KREDİSİ									28	60	
ZORUNLU DERS KREDİ YÜZDESİ										75%	
SEÇMELİ DERS KREDİ YÜZDESİ										25%	

Seçmeli Dersler Listesi (TABLO 1'in devamı)

GÜZ						BAHAR					
	T	P	K	AKTS	Şube sayısı		T	P	K	AKTS	Şube sayısı
HİD427 ÇEVRE SORUNLARI	2	0	2	5	2	HİD428 SU KALİTESİ VE KONTROLÜ	3	0	3	5	2
HİD429 KARST HİDROJEOLJİSİ	3	0	3	5	2	HİD430 ÇEVRESEL ETKİ DEĞERLENDİRMESİ	2	0	2	5	2
HİD431 AKİFER TESTLERİ	2	1	2	5	2	HİD432 HİDROJEOLJİDE BİLGİSAYAR UYGULAMALARI	2	2	3	6	2
HİD433 HİDROJEOLJİK MODELLER	2	2	3	6	2	HİD434 YERALTISUYU TAŞINIM MODELLERİ	2	2	3	6	2
HİD435 COĞRAFİ BİLGİ SİSTEML.GİRİŞ	2	2	3	6	2	HİD438 ÇEVRESEL HİDROJEOLJİ	3	0	3	5	2
HİD437 SÜRDÜRÜLEBİLİR SU KAYNAKLARI YÖNETİMİ	3	0	3	5	2	HİD440 SINIRAŞAN SULAR YÖNETİMİ	2	0	2	5	2
HİD439 EKOHİDROLOJİ	2	0	2	5	2	HİD436 HİDROJEOLJİ'DE CBS UYGULAMALARI	2	2	3	6	2
HİD441 İZOTOP HİDROLOJİSİ	2	0	2	5	2	HİD442 MADEN HİDROJEOLJİSİ	2	0	2	5	2
HİD443 SICAK VE MİNERALLİ SULAR	2	0	2	5	2	HİD444 JEOTERMAL ENERJİ	2	0	2	5	2

HİD485 SU YAPILARI	2	0	2	3	2	HİD446 AKİFER DUYARLILIK HARİTALARI	1	2	2	5	2
HİD495 HİDROJEOLJİDE JEOELEKTRİKSEL YÖNTEMLER	1	2	2	3	2	HİD448 HİDROJEOLJİK MODELLEME UYGULAMALARI	2	2	3	6	2
HİD445 YERALTISUYU KORUMA ALANLARI	2	0	2	5	2	HİD450 HİDROJEOLJİDE SAHA UYGULAMALARI	1	3	2	6	2
HİD447 SULAK ALANLAR HİDROJEOLJİSİ	2	0	2	5	2	JEO354 JEOKİMYA	2	0	2	3	3
HİD449 HİDROJEOLJİDE YAPAY ZEKA VE DERİN ÖĞRENME TEKNİKLERİ	2	2	3	6	2	JEO356 UYGULAMALI JEOFİZİK	2	2	3	4	3
JEO261 PALEONTOLOJİ	2	2	3	5	4	JEO418 MESLEK HUKUKU VE ETİK.	2	0	2	3	2
JEO267 TAŞINIM OLAYLARI	2	0	2	3	3	JEO454 TÜRKİYE JEOLJİSİ	2	0	2	4	3
JEO269 JEOİSTATİSTİK	3	0	3	4	3	JEO464 YERALTİ JEOLJİSİ	1	2	2	5	2
JEO355 JEOKİMYASAL TERMODİNAMİK	3	0	3	3	3	JEO468 SEDİMANTER PETROGRAFI	1	2	2	5	2
JEO447 TIBBİ JEOLJİ	2	0	2	4	2	JEO470 OPTİK MİNERALOGİ	2	2	3	5	2
JEO449 BİLİMSEL ANLATIM İLKELERİ	2	0	2	4	2	JEO472 METAMORFİK PETROGRAFI	2	2	3	6	2
JEO451 MADEN YATAKLARI	3	0	3	5	3	JEO474 ENDÜST. HAMMADDELER	2	0	2	4	2
JEO453 TARİHSEL JEOLJİ	2	0	2	4	3	JEO476 METALİK MADEN YATAKLARI	3	0	3	5	2
JEO459 AFET YÖNETİMİ	2	0	2	4	2	JEO480 PETROL JEOLJİSİ	3	0	3	5	2
JEO465 FOTOJEOLJİ	1	2	2	4	2	JEO482 UZAKTAN ALGILAMA	1	3	2	6	2
JEO467 JEOMORFOLOJİ	2	0	2	4	2	JEO484 ANALİZ METOTLARI VE JEOKİMYASAL PROSPEKSİYON	2	2	3	6	2
JEO469 JEOTEKNİK VERİ TOP. DEĞER.	3	0	3	5	2	JEO485 TOPRAK MEKANİĞİ LABORATUVAR YÖNTEMLERİ	1	2	2	5	2
JEO473 MAGMATİK PETROGRAFI	2	2	3	6	2	JEO486 TEKNİK ÇİZİM VE TASARIM	1	2	2	5	2
JEO475 KRİSTALOGRAFI	2	2	3	5	2	JEO488 ÖLÇME BİLGİSİ	1	2	2	5	2
JEO477 MADEN YAT. DEĞERLENDİRME	1	3	2	5	2	JEO490 ÇEVRESEL JEOLJİ	2	0	2	3	2
JEO479 KÖMÜR JEOLJİSİ	2	0	2	4	2	JEO494 DOĞAL AFETLER	3	0	3	4	2
JEO481 MÜHENDİSLİK EKONOMİSİ	3	0	3	5	2	*JEO498 JEO. COĞR. BİL. SİST. VE UZAKT.	2	2	3	6	2
JEO483 SONDAJ TEKNİĞİ	2	0	2	3	2						
JEO489 MÜHENDİSLİK TASARIMI	2	0	2	4	2						
JEO493 KAYA MEKANİĞİ LABORATUVAR YÖNTEMLERİ	1	2	2	5	2						
JEO495 YERBİLİMLERİNDE RADYOMETRİK YAŞ TAYİNİ YÖNTEMLERİ	3	0	3	5	2						
JEO497 DOĞAL YAPI MALZEMELERİ	2	2	3	5	2						
JEO499 JEOLJİK HARİTALAMA TEKNİKLERİ VE UYGULAMALARI	2	2	3	5	2						

*: Ders BAHAR ve GÜZ dönemlerinin her ikisinde de açılır.

Meuzniyet Koşulları

- H.Ü. Ön lisans, Lisans Eğitim-Öğretim ve Sınav Yönetmeliğinin ilgili maddelerinde lisans programından mezuniyet için belirtilen şartları sağlaması gereklidir.
- Ortak zorunlu dersler dahil olmak üzere tabi olduğu lisans programındaki tüm zorunlu dersleri başarmış olmalıdır.
- 3 (üç) alan dışı ve diğerleri alan içi seçmeli dersler olmak üzere en az 240 AKTS kazanılmış olmalıdır.

31.07.2025 tarih ve 870 Sayılı Eğitim Komisyonu Kararı Eki-2-B

TABLE 1
COURSE LISTING
HACETTEPE UNIVERSITY FACULTY OF ENGINEERING
GEOLOGICAL ENGINEERING DEPARTMENT (Hydrogeological Engineering Program)

FALL						SPRING					
	T	P	C	ECTS	# of Sections		T	P	C	ECTS	# of Sections
First Semester						Second Semester					
COMPULSORY COURSES						COMPULSORY COURSES					
JEO154 COMPUTER PROGRAMMING	3	0	3	3	2	FİZ138 PHYSICS II	4	0	4	5	
FİZ137 PHYSICS I	4	0	4	5		FİZ117 GENERAL PHYSICS LABORATORY	0	3	1	2	
İNG127 BASIC ENGLISH I	3	0	3	3		İNG128 BASIC ENGLISH II	3	0	3	3	
JEO153 PHYSICAL GEOLOGY I	2	1	3	4	2	JEO152 PHYSICAL GEOLOGY II	3	3	4	6	2
KİM109 CHEMISTRY I	4	0	4	5		KİM110 CHEMISTRY II	4	0	4	5	
KİM119 CHEMISTRY LABORATORY I	0	3	1	2		MAT108 CALCULUS II	4	0	4	5	
MAT107 CALCULUS I	4	0	4	5		TKD104 TURKISH LANGUAGE II	2	0	2	2	
TKD103 TURKISH LANGUAGE I	2	0	2	2		BEB650 BASIC INFORMATION AND COMMUNICATION TECH.	0	2	1	2	
HİD154 INTRODUCTION TO HYDROGEOLOGICAL ENGINEERING	1	0	1	1	2		-	-	-	-	-

TOTAL OF COMPULSORY COURSES	23	4	25	30		TOTAL OF COMPULSORY COURSES	20	8	23	30	
ELECTIVE COURSES						ELECTIVE COURSES					
TOTAL NUMBER OF ELECTIVE COURSES			0	0		TOTAL NUMBER OF ELECTIVE COURSES			0	0	
SUM OF CREDITS IN SEMESTER			25	30		SUM OF CREDITS IN SEMESTER			23	30	

THIRD SEMESTER						FOURTH SEMESTER					
COMPULSORY COURSES						COMPULSORY COURSES					
AİT203 ATATÜRK'S PRINCIPLES AND HISTORY OF HIS REFORMS I	2	0	2	2		AİT204 ATATÜRK'S PRINCIPLES AND HISTORY OF HIS REFORMS II	2	0	2	2	
HİD251 FLUID MECHANICS	3	0	3	4	2	HİD252 HYDROLOGY	2	2	3	5	2
HİD253 PRINCIPLES OF THERMODYNAMICS	2	0	2	2	2	HİD254 HYDRAULICS OF POROUS MEDIA	2	0	2	4	2
JEO263 STRUCTURAL GEOLOGY	3	2	4	5	2	JEO264 STRATIGRAPHY-SEDIMENTOLOGY	3	2	4	5	2
JEO265 MINERALOGY	3	2	4	6	2	JEO266 PETROGRAPHY	3	2	4	6	2
MAT 248 DIFFERENTIAL EQUATIONS	4	0	4	5	2	JEO270 STATIC AND STRENGTH	3	0	3	5	2

TOTAL OF COMPULSORY COURSES	17	4	19	24		TOTAL OF COMPULSORY COURSES	15	6	18	27	
ELECTIVE COURSES						ELECTIVE COURSES					
TOTAL NUMBER OF ELECTIVE COURSES			4	6		TOTAL NUMBER OF ELECTIVE COURSES			2	3	
SUM OF CREDITS IN SEMESTER			23	30		SUM OF CREDITS IN SEMESTER			20	30	

FIFTH SEMESTER						SIXTH SEMESTER					
COMPULSORY COURSES						COMPULSORY COURSES					
MUH 103 OCCUPATIONAL HEALTH AND SAFETY I	1	0	1	1	30	MUH 104 OCCUPATIONAL HEALTH AND SAFETY II	1	0	1	1	30
HİD351 PHYSICAL HYDROGEOLOGY	2	2	3	5	2	HİD350 HYDROGEOCHEMISTRY	3	0	3	3	2
HİD354 STATISTICAL HYDROLOGY	3	0	3	4	2	HİD353 TRANSPORT PROCESSES	2	0	2	3	2
JEO357 ROCK MECHANICS	2	1	2	4	2	HİD316 GEOPHYSICAL METHODS IN HYDROGEOLOGY	2	2	3	3	2
JEO359 FIELD GEOLOGY	2	6	4	5	2	JEO358 SOIL MECHANICS	2	1	2	4	2
MAT307 NUMERICAL ANALYSIS	4	0	4	5	2	JEO302 GEOLOGICAL MAPPING	2	6	4	5	6
HİD361 VOCATIONAL ENGLISH-I	2	0	2	2	2	HİD342 INTERNSHIP (30 work days)	0	8	4	6	20
						HİD 362 VOCATIONAL ENGLISH-II	2	0	2	2	2

TOTAL OF COMPULSORY COURSES	16	9	19	26		TOTAL OF COMPULSORY COURSES	14	17	21	27	
ELECTIVE COURSES						ELECTIVE COURSES					
TOTAL NUMBER OF ELECTIVE COURSES			4	4		TOTAL NUMBER OF ELECTIVE COURSES			2	3	
SUM OF CREDITS IN SEMESTER			23	30		SUM OF CREDITS IN SEMESTER			23	30	

SEVENTH SEMESTER						EIGHTH SEMESTER					
COMPULSORY COURSES						COMPULSORY COURSES					
HİD451 GROUNDWATER ENGINEERING	3	0	3	3	2	JEO452 ENGINEERING GEOLOGY	3	0	3	5	2
HİD453 GROUNDWATER DRILLING TECHNIQUES	2	0	2	2	2	HİD456 PROJECT DEVELOPMENT AND DESIGN IN HYDROGEOLOG II	0	4	2	2	20
HİD459 PROJECT DEVELOPMENT AND DESIGN IN HYDROGEOLOGY I	0	4	2	2	20	HİD418 WATER RESOURCES LEGISLATION AND PROFESSIONAL ETHICS	1	0	1	1	2
*MUH401 MULTI DISCIPLINED PROJECT WORK	0	2	1	1	13						

TOTAL OF COMPULSORY COURSES	5	6	8	8		TOTAL OF COMPULSORY COURSES	4	4	6	8	
ELECTIVE COURSES						ELECTIVE COURSES					
TOTAL NUMBER OF ELECTIVE COURSES			8	22		TOTAL NUMBER OF ELECTIVE COURSES			8	22	
SUM OF CREDITS IN SEMESTER			16	30		SUM OF CREDITS IN SEMESTER			14	30	

GRAND SUM									167	240	
SUM OF CREDITS OF COMPULSORY COURSES									137	180	
SUM OF CREDITS OF ELECTIVE COURSES									28	60	
CREDIT PERCENTAGE OF COMPULSORY COURSES									75%		
CREDIT PERCENTAGE OF ELECTIVE COURSES									25%		

TECHNICAL ELECTIVE COURSES (TABLE 1 Cont'd)

FALL					SPRING						
COURSE CODE AND NAME	T	P	C	ECTS	# of Sections	COURSE CODE AND NAME	T	P	C	ECTS	# of Sections
HİD427 ENVIRONMENTAL PROBLEMS	2	0	2	5	2	HİD428 WATER QUALITY AND CONTROL	3	0	3	5	2
HİD429 KARST HYDROGEOLOGY	3	0	3	5	2	HİD430 ENVIRONMENTAL IMPACT ASSESSMENT	2	0	2	5	2
HİD431 HYDRAULIC TESTS OF AQUIFERS	2	1	2	5	2	HİD432 COMPUTER APPLICATIONS IN HYDROGEOLOGY	2	2	3	6	2
HİD433 HYDROGEOLOGICAL MODELS	2	2	3	6	2	HİD434 GROUNDWATER TRANSPORT MODELS	2	2	3	6	2
HİD435 INTRODUCTION TO GIS	2	2	3	6	2	HİD438 ENVIRONMENTAL HYDROGEOLOGY	3	0	3	5	2
HİD437 SUSTAINABLE WATER RESOURCES MANAGEMENT	3	0	3	5	2	HİD440 MANAGEMENT OF TRANSBOUNDARY WATERS	2	0	2	5	2
HİD439 ECOHYDROLOGY	2	0	2	5	2	HİD436 GIS APPLICATIONS IN HYDROGEOLOGY	2	2	3	6	2
HİD441 ISOTOPE HYDROLOGY	2	0	2	5	2	HİD442 MINE HYDROGEOLOGY	2	0	2	5	2
HİD443 THERMAL AND MINERAL WATERS	2	0	2	5	2	HİD444 GEOTHERMAL ENERGY	2	0	2	5	2
HİD485 HYDRAULIC STRUCTURES	2	0	2	3	2	HİD446 AQUIFER VULNERABILITY MAPS	1	2	2	5	2
HİD495 GEOELECTRICAL METHODS IN HYDROGEOLOGY	1	2	2	3	2	HİD448 HYDROGEOLOGICAL MODEL APPLICATIONS	2	2	3	6	2
HİD445 GROUNDWATER PROTECTION AREAS	2	0	2	5	2	HİD450 FIELD APPLICATIONS IN HYDROGEOLOGY	1	3	2	6	2
HİD447 HYDROGEOLOGY OF WETLANDS	2	0	2	5	2	JEO354 GEOCHEMISTRY	2	0	2	3	3
HİD449 ARTIFICIAL INTELLIGENCE AND DEEP LEARNING TECHNIQUES IN HYDROGEOLOGY	2	2	3	6	2	JEO356 APPLIED GEOPHYSICS	2	2	3	4	3
JEO261 PALEONTOLOGY	2	2	3	5	4	JEO418 PROFESSIONAL LEGISLATION AND ETHICS	2	0	2	3	2
JEO267 TRANSPORT PHENOMENA	2	0	2	3	3	JEO454 GEOLOGY OF TURKEY	2	0	2	4	3
JEO269 GEOSTATISTICS	3	0	3	4	3	JEO464 SUBSURFACE GEOLOGY	1	2	2	5	2
JEO355 GEOCHEMICAL THERMODYNAMICS	3	0	3	3	3	JEO468 SEDIMENTARY PETROGRAPHY	1	2	2	5	2
JEO447 MEDICAL GEOLOGY	2	0	2	4	2	JEO470 OPTICAL MINERALOGY	2	2	3	5	2
JEO449 PRINCIPALS OF SCIENTIFIC PRESENTATION	2	0	2	4	2	JEO472 METAMORPHIC PETROGRAPHY	2	2	3	6	2

JEO451 ORE DEPOSITS	3	0	3	5	3	JEO474 INDUSTRIAL RAW MATERIALS	2	0	2	4	2
JEO453 HISTORICAL GEOLOGY	2	0	2	4	3	JEO476 METALLIC ORE DEPOSITITS	3	0	3	5	2
JEO459 DISASTER MANAGEMENT	2	0	2	4	2	JEO480 PETROLEUM GEOLOGY	3	0	3	5	2
JEO465 PHOTOGEOLOGY	1	2	2	4	2	JEO482 REMOTE SENSING	1	3	2	6	2
JEO467 GEOMORPHOLOGY	2	0	2	4	2	JEO484 METHODS OF ANALYSES AND GEOCHEMICAL PROSPECTION	2	2	3	6	2
JEO469 GEOTECHNICAL DATA COLL. AND EVALUATION TECHNIQUES	3	0	3	5	2	JEO485 SOIL MECHANICS LABORATORY METHODS	1	2	2	5	2
JEO473 IGNEOUS PETROGRAPHY	2	2	3	6	2	JEO486 TECHNICAL DRAWING AND DESIGN	1	2	2	5	2
JEO475 CRYSTALLOGRAPHY	2	2	3	5	2	JEO488 SURVEYING	1	2	2	5	2
JEO477 ORE DEPOSITS EVALUATION	1	3	2	5	2	JEO490 ENVIRONMENTAL GEOLOGY	2	0	2	3	2
JEO479 COAL GEOLOGY	2	0	2	4	2	JEO494 NATURAL CATASTROPHES	3	0	3	4	2
JEO481 ENGINEERING ECONOMY	3	0	3	5	2	*JEO498 GIS AND REMOTE SENSING IN GEOLOGY	2	2	3	6	2
JEO483 DRILLING TECHNIQUES	2	0	2	3	2						
JEO489 ENGINEERING DESIGN	2	0	2	4	2						
JEO493 ROCK MECHANICS LABORATORY METHODS	1	2	2	5	2						
JEO495 METHODS OF RADIOMETRIC DATING IN EARTH SCIENCES	3	0	3	5	2						
JEO497 NATURAL CONSTRUCTION MATERIALS	2	2	3	5	2						
JEO499 GEOLOGICAL MAPPING TECH. AND APPLICATIONS	2	2	3	5	2						

***: this course is offered in both FALL and SPRING semesters**

Graduation Requirements

- It is necessary to meet the conditions specified in the relevant requirements of HU Undergraduate Education and Examination Regulations for the undergraduate program.
- Must be succesfull in all compulsory courses of the undergraduate program to which he/she is subject, including common compulsory courses.
- At least 240 ECTS must be gathered, 3 (three) of which are out-of-field elective courses and the others are in-of-field electives.