

ALANYA ALAADDİN KEYKUBAT ÜNİVERSİTESİ
GENETİK VE BİYOMÜHENDİSLİK BÖLÜMÜ 2018 MÜFREDATI

Ders Kodu	Ders Adı	Kredi	Ders	Uyg	Lab	AKTS	Türü	Z/S	YY	Dil
BIL 101E	Int. to Comp. and Info. Systems	1,5	1	1		2	TB	Z	1	E
TDB 101	Turkish I	2,0	2	0		2	ITB	Z	1	T
BIO 101E	Biology I	3,0	3	0		7	TB	Z	1	E
BIO 101EL	Biology I Lab	1,0	0	0	2	2	TB	Z	1	E
KIM 101E	Chemistry	3,0	3	0		4	TB	Z	1	E
KIM 101EL	Chemistry Lab	1,0	0	0	2	1	TB	Z	1	E
FIZ 101E	Physics I	3,0	3	0		4	TB	Z	1	E
FIZ 101EL	Physics I Lab	1,0	0	0	2	1	TB	Z	1	E
MAT 101E	Mathematics I	4,0	3	2		5	TB	Z	1	E
ETK 101E	Engineering Ethics	1,0	1	0		2	ITB	Z	1	E
Dönem 1:		20,5	16	3	6	30				
Ders Kodu	Ders Adı	Kredi	Ders	Uyg	Lab	AKTS	Türü	Z/S	YY	Dil
BIL 102E	Int. to Scientific Programming	3,0	2	2		4	TM	Z	2	E
TDB 102	Turkish II	2,0	2	0		2	ITB	Z	2	T
GBE 112E	Int. to Genetics and Bioengineering	2,0	2	0		3	TM	Z	2	E
BIO 102E	Biology II	3,0	3	0		7	TB	Z	2	E
BIO 102EL	Biology II lab	1,0	0	0	2	2	TB	Z	2	E
FIZ 102E	Physics II	3,0	3	0		4	TB	Z	2	E
FIZ 102EL	Physics II Lab	1,0	0	0	2	1	TB	Z	2	E
MAT 102E	Mathematics II	4,0	3	2		5	TB	Z	2	E
	Elective Course (ITB) (SGS)	2,0	2	0		2	ITB	Z	2	E
Dönem 2:		21,0	17	4	4	30				
Ders Kodu	Ders Adı	Kredi	Ders	Uyg	Lab	AKTS	Türü	Z/S	YY	Dil
ATA 101	History of Turkish Revolution I	2,0	2	0		2	ITB	Z	3	T
GBE 201E	Cell Biology	3,0	3	0		5	TB	Z	3	E
GBE 201EL	Cell Biology Lab	1,0	0	0	2	2	TB	Z	3	E
GBE 212E	Genetics	3,0	3	0		5	TB	Z	3	E
MAT 202E	Differential Equations	4,0	4	0		5	TM	Z	3	E
TER 202E	Thermodynamics	3,0	3	0		5	TM	Z	3	E
KIM 108E	Organic Chemistry	2,0	2	0		5	TM	Z	3	E
	Elective Course (ITB) (SGS)	2,0	2	0		2	ITB	S	3	E

		Dönem 3:	20,0	19	0	2	31			
Ders Kodu	Ders Adı	Kredi	Ders	Uyg	Lab	AKTS	Türü	Z/S	YY	
ATA 102	History of Turkish Revolution II	2,0	2	0		2	ITB	Z	4	T
GBE 206E	Biomaterials	3,0	3	0		3	MT	Z	4	E
GBE 252E	Molecular Biology and Genetics	3,0	3	0		6	TB	Z	4	E
FDE 208E	Microbiology	2,0	2	0		3	TB	Z	4	E
GBE 204E	Heat and Mass Transfer	3,0	3	0		4	TB	Z	4	E
GBE 260E	Biostatistics	3,0	2	2		3	TM	Z	4	E
GBE 242E	Biochemistry	3,0	3	0	0	4	TB	Z	4	E
	Elective Course (ITB)	3,0	3	0		4	ITB	S	4	E
		Dönem 4:	22,0	21	2	0	29			
Ders Kodu	Ders Adı	Kredi	Ders	Uyg	Lab	AKTS	Türü	Z/S	YY	
GBE 306E	Bioreactors	3,0	3	0		4	MT	Z	5	E
GBE 322E	Biotechnology	3,0	3	0		5	MT	Z	5	E
GBE 312E	Genetic Engineering I	3,0	3	0		5	MT	Z	5	E
GBE 312EL	Genetic Engineering I Lab	2,0	0	0	4	3	MT	Z	5	E
AKM 301E	Fluid Mechanics	3,0	3	0		5	ITB	Z	6	E
	Elective Course (ITB) (SGS)	2,0	2	0		2	ITB	S	5	E
	Elective Course (TM)	3,0	3	0		6	TM	S	5	E
		Dönem 5:	19,0	17	0	4	30			
Ders Kodu	Ders Adı	Kredi	Ders	Uyg	Lab	AKTS	Türü	Z/S	YY	
GBE 300	Internship	0,0	0	0	0	0	MT	Z	6	
GBE 352E	Genetic Engineering II	3,0	3	0		6	MT	Z	6	E
GBE 352EL	Genetic Engineering II Lab	2,0	0	0	4	3	MT	Z	6	E
GBE 302E	Separation and Purification Processes	2,0	2	0		2	TM	Z	6	E
END 305E	Engineering Economics	2,0	2	0		5	ITB	Z	6	E
	Elective Course (MT)	3,0	3	0		6	MT	S	6	E
	Elective Course (ITB)	3,0	3	0		4	ITB	S	6	E
	Elective Course (ITB)	3,0	3	0		4	ITB	S	6	E
		Dönem 6:	18,0	16	0	4	30			
Ders Kodu	Ders Adı	Kredi	Ders	Uyg	Lab	AKTS	Türü	Z/S	YY	
GBE 415E	Nanotechnology	3,0	3			6	MT	Z	7	E
END 401E	Occup. Health and Safety I	2,0	2	0		2	TM	Z	7	E
GBE 404E	Bioinformatics	3,0	3	0		4	TM	Z	7	E

	Elective Course (TM)	3,0	3	0		6	TM	S	7	E
	Elective Course (ITB)	3,0	3	0		4	ITB	S	7	E
	Elective Course (MT)	3,0	3	0		6	MT	S	7	E
	Dönem 7:	17,0	17	0	0	28				
Ders Kodu	Ders Adı	Kredi	Ders	Uyg	Lab	AKTS	Türü	Z/S	YY	
GBE 402E	Graduation project	3,0	0	6		8	MT	Z	8	E
GBE 412E	Biopolymers	2,0	2	0		3	TM	Z	8	E
END402E	Occup. Health and Safety II	2,0	2	0		2		Z	8	
GBE 407E	Seminar	1,0	1	0		3	ITB	Z	8	E
	Elective Course (TB)	3,0	3	0		4	TB	S	3	E
	Elective Course (MT)	3,0	3	0		6	MT	S	8	E
	Elective Course (MT)	3,0	3	0		6	MT	S	8	E
	Dönem 8:	17,0	14	6	0	32				
TOPLAM:		154,5	137,0	15,0	20,0	240,0				

Temel Bilim (TB)	50,5	33,1	25 min
Temel Mühendislik (TM)	32,0	21,0	20min
Mühendislik Tasarım (MT)	37,0	24,3	25-35
İnsan & Toplum Bilim (ITB)	33,0	21,6	20min
Toplam Kredi	152,5	100,0	
Zorunlu Ders Kredisi	117,5	76,1	
Seçmeli Ders Kredisi	37,0	23,9	min20
Toplam Kredi	154,5	100,0	

Bologna Kriterleri			
Toplam AKTS	240,0	100,0	
Seçmeli	60,0	25,0	min 25

SEÇMELİ DERSLER:

1.YY,3.YY, ve 5. YY - ITB Secmeli Ders Grubu (SGS)		Kredi	Ders	Uyg	Lab	AKTS	Türü	Z/S	YY
SGS101	Sanat Tarihi	2	2	0	0	2	ITB	S	1/3/5

SGS103	Bilim Tarihi ve Felsefesi	2	2	0	0	2	ITB	S	1/3/5
SGS105	Afet Bilinci	2	2	0	0	2	ITB	S	1/3/5
SGS107	Etkili ve Güzel Konuşma	2	2	0	0	2	ITB	S	1/3/5
SGS109	Temel İlk Yardım ve Acil Eğitimi	2	2	0	0	2	ITB	S	1/3/5
SGS111	Okçuluk	2	2	0	0	2	ITB	S	1/3/5
SGS113	Boks, Karate ve Tekvando	2	2	0	0	2	ITB	S	1/3/5
SGS115	Futbol	2	2	0	0	2	ITB	S	1/3/5
SGS117	Voleybol	2	2	0	0	2	ITB	S	1/3/5
SGS119	Basketbol	2	2	0	0	2	ITB	S	1/3/5
SGS121	Tenis	2	2	0	0	2	ITB	S	1/3/5
SGS123	Masa Tenisi	2	2	0	0	2	ITB	S	1/3/5
SGS125	Halk Oyunları	2	2	0	0	2	ITB	S	1/3/5
SGS127	Müzik Kültürü	2	2	0	0	2	ITB	S	1/3/5
SGS129	Resim	2	2	0	0	2	ITB	S	1/3/5
SGS131	Tiyatro ve Sinema	2	2	0	0	2	ITB	S	1/3/5
SGS133	Sağlıklı Yaşam	2	2	0	0	2	ITB	S	1/3/5
SGS135	Beslenme	2	2	0	0	2	ITB	S	1/3/5
SGS137	Medya Okuryazarlığı	2	2	0	0	2	ITB	S	1/3/5
SGS139	Matematiksel Estetik	2	2	0	0	2	ITB	S	1/3/5
SGS141	Endüstriyel Tasarım	2	2	0	0	2	ITB	S	1/3/5
SGS143	Temel Fotoğrafçılık	2	2	0	0	2	ITB	S	1/3/5
SGS145	Sörf	2	2	0	0	2	ITB	S	1/3/5
SGS147	Mitoloji	2	2	0	0	2	ITB	S	1/3/5
SGS149	Antik Kentler	2	2	0	0	2	ITB	S	1/3/5
SGS151	Sosyoloji	2	2	0	0	2	ITB	S	1/3/5
SGS153	Felsefe	2	2	0	0	2	ITB	S	1/3/5
SGS161	Antik DNA: Geçmişin İzinde	2	2	0	0	2	ITB	S	1/3/5
SGS163	Genetik Miras	2	2	0	0	2	ITB	S	1/3/5
SGS165	Modern Genetik Uygulamaları: Gen Klonlama	2	2	0	0	2	ITB	S	1/3/5

4.YY ve 6.YY ITB Secmeli Ders Grubu		Kredi	Ders	Uyg	Lab	AKTS	Türü	Z/S	YY
GBE 262E	Scientific Research Methods	3	3	0	0	4	ITB	S	4/6
ISM 312	Entrepreneurship	3	3	0	0	4	ITB	S	4/6

FDE 314	Functional Foods	3	3	0	0	4	ITB	S	4/6
GBE 340E	Report Writing and Presentation Skills	3	3	0	0	4	ITB	S	4/6
BIL 401	Technology and Ethics	3	3	0	0	4	ITB	S	4/6
END 414	Labor Law	3	3	0	0	4	ITB	S	4/6

7.YY ITB Secmeli Ders Grubu		Kredi	Ders	Uyg	Lab	AKTS	Türü	Z/S	YY
ISM 307	Human Resources Management	3	3	0	0	4	ITB	S	7
END 441	Technology and R&D	3	3	0	0	4	ITB	S	7
BLG 461	Introduction to E-Commerce	3	3	0	0	4	ITB	S	7

5.YY ve 7.YY-TM Secmeli Ders Grubu		Kredi	Ders	Uyg	Lab	AKTS	Türü	Z/S	YY
GBE 342E	Cytogenetics	3	3	0	0	6	TM	S	5/7
GBE 344E	Immunology	3	3	0	0	6	TM	S	5/7
GBE 351E	Human Genetics	3	3	0	0	6	TM	S	5/7
GBE 353E	Cancer Biology	3	3	0	0	6	TM	S	5/7
GBE 363E	Toxicology	3	3	0	0	6	TM	S	5/7
GBE 365E	Genetic Disorders	3	3	0	0	6	TM	S	5/7
GBE 375E	Developmental Biology	3	3	0	0	6	TM	S	5/7
GBE 422E	Epigenetics	3	3	0	0	6	TM	S	5/7
GBE 442E	Microbial and Viral Genetics	3	3	0	0	6	TM	S	5/7
GBE 456E	Neurobiology	3	3	0	0	6	TM	S	5/7
GBE 460E	Pharmacogenetics	3	3	0	0	6	TM	S	5/7

6. YY, 7.YY ve 8. YY-MT Secmeli Ders Grubu		Kredi	Ders	Uyg	Lab	AKTS	Türü	Z/S	YY
GBE 320E	Cell Culture Techniques	3	3	0	0	6	MT	S	6/7/8
GBE 333E	Industrial Microbiology	3	3	0	0	6	MT	S	6/7/8
GBE 336E	Industrial Biotechnology	3	3	0	0	6	MT	S	6/7/8
GBE 372L	Clinical Biochemistry	3	3	0	0	6	MT	S	6/7/8
GBE 425E	Molecular Signaling Pathways and Cancer	3	3	0	0	6	MT	S	6/7/8
GBE 432E	Genomics and Proteomics	3	3	0	0	6	MT	S	6/7/8
FDE 435E	Food Toxicology	3	3	0	0	6	MT	S	6/7/8
GBE 435E	Biosensors	3	3	0	0	6	MT	S	6/7/8
GBE 452E	Plant Biotechnology	3	3	0	0	6	MT	S	6/7/8

GBE 455E	Gene Therapy	3	3	0	0	6	MT	S	6/7/8
GBE 462E	Molecular Pharmacology	3	3	0	0	6	MT	S	6/7/8
GBE 470E	Stem Cells	3	3	0	0	6	MT	S	6/7/8
GBE 472E	Drug Delivery Systems	3	3	0	0	6	MT	S	6/7/8