

EK-1

Code	Name	T	P	ECTS	Code	Name	T	P	ECTS
1st SEMESTER					2nd SEMESTER				
MAT101	Calculus I (MATEMATİK I)	3	2	7	MAT102	Calculus II (MATEMATİK II)	3	2	7
PHY101	Physics I (FİZİK I)	3	2	7	PHY102	Physics II (FİZİK II)	3	2	7
ATA101	Principles of Atatürk and History of the Turkish Revolution – I (ATATÜK İLKELERİ VE İNKILÂP TARİHİ I)	2	0	2	ATA102	Principles of Atatürk and History of the Turkish Revolution-II (ATATÜRK İLKELERİ VE İNKILAP TARİHİ)	2	0	2
TDE101	Turkish Language and Literature I (TÜRK DİLİ I)	2	0	2	TDE102	Turkish Language and Literature II (TÜRK DİLİ VE EDEBİYATI II)	2	0	2
ENG111	English for Academic Reading and Speaking I (AKADEMİK OKUMA VE YAZMA I)	2	2	3	ENG112	English for Academic Reading and Speaking II (AKADEMİK OKUMA VE YAZMA II)	2	2	3
CHE103	General Chemistry I (GENEL KİMYA)	3	2	5	BME102	Organic Chemistry (ORGANİK KİMYA)	2	2	3
BME103	Introduction to Biomedical Engineering (BİYOMEDİKAL MÜHENDİSLİĞE GİRİŞ)	2	0	2	BME104	Biophysics (BİYOFİZİK)	2	1	3
BME105	Computer Aided Technical Drawing (BİLGİSAYAR DESTEKLİ TEKNİK ÇİZİM)	2	1	2	BME106	Medical biology (MEDİKAL BİYOLOJİ)	2	1	3
TOTAL		19	9	30	TOTAL		18	10	30

Code	Name	T	P	ECTS	Code	Name	T	P	ECTS
3rd SEMESTER					4th SEMESTER				
MAT201	Linear Algebra and Dif. Equations (LINEER CEBİR VE DİFERANSİYEL DENKLEMLER)	4	0	6	BME202	Tissue Engineering (Doku Mühendisliği)	3	1	4
BME201	Technical Report Writing and Presentation Techniques (TEKNİK RAPOR YAZMA VE SUNUM TEKNİKLERİ)	2	1	4	BME204	Biomaterials and Biocompatibility (BİYOMALZEMELER VE BİYOUYUMLULUK)	2	1	3
BME203	Circuit Theory (DEVRE TEORİSİ)	3	2	6	BME206	Electronics Circuits (ELEKTRONİK DEVRELER)	3	2	6
BME205	Human Anatomy and Physiology (İNSAN ANATOMİSİ VE FİZYOLOJİSİ)	2	2	4	BME208	Logic Design and Circuits (LOJİK TASARIM VE DEVRELER)	3	2	6
BME207	Molecular Biology (MOLEKÜLER BİYOLOJİ)	2	1	3	BME210	Biomedical Lab. I (Biyomedikal Lab. I)	2	2	4
COE201	Computer Programming and Applications (BİLGİSAYAR PROGRAMLAMA VE UYGULAMALARI)	2	2	4	BME212	Summer Practice I (YAZ STAJI)	0	2	4
	Non- Technical Elective I (TEKNİK OLMAYAN SEÇMELİ DERS I)	2	0	3		Non- Technical Elective II (TEKNİK OLMAYAN SEÇMELİ DERS II)	2	0	3
TOTAL		17	8	30	TOTAL		15	10	30

Code	Name	T	P	ECTS	Code	Name	T	P	ECTS
5th SEMESTER					6th SEMESTER				
BME301	Biomedical Signals and Systems (BİYOMEDİKAL SİNYAL VE SİSTEMLER)	3	2	6	BME302	Medical Imaging (MEDİKAL GÖRÜNTÜLEME)	2	1	3
BME303	Bio Transport Phenomena (BİYOTAŞINIM)	3	1	3	BME304	Biomechanics Lab. (BİYOMEKANİK LAB.)	2	2	3
BME305	Biomechanics (BİYOMEKANİK)	2	1	5	BME306	Metrology and Biomedical Calibration (METROLOJİ VE BİYOMEDİKAL KALİBRASYON)	2	1	3
BME307	Biomedical Instrumentation (BİYOMEDİKAL ENSTRÜMENTASYON)	2	2	6	BME308	Engineering Management (MÜHENDİSLİK YÖNETİMİ)	2	1	2
BME309	Biomedical Ethics and Safety (BİYOMEDİKAL ETİK)	2	1	3	BME310	Summer practice II (YAZ STAJI)	0	2	4
BME311	Biomedical Lab. II (BİYOMEDİKAL LAB. II)	2	2	4		Technical Elective I (TEKNİK SEÇMELİ DERS I)	3	1	6
	Non-technical elective III (TEKNİK OLMAYAN SEÇMELİ DERS III)	2	0	3		Technical Elective II (TEKNİK SEÇMELİ DERS II)	3	1	6
						Non-technical elective IV (TEKNİK OLMAYAN SEÇMELİ DERS IV)	2	0	3
TOTAL		16	9	30	TOTAL		16	9	30

TECHNICAL ELECTIVES – I , II				
Code	Name	T	P	ECTS
BME320	Biotechnology (BİYOTEKNOLOJİ)	3	1	6
BME324	Cardiovascular Physiology (KARDİYOYASKÜLER FİZYOLOJİ)	3	1	6
BME326	Manufacturing Techniques in Biomedical Engineering (BİYOMEDİKAL MÜHENDİSLİKTE ÜRETİM TEKNİKLERİ)	3	1	6
BME328	Biomagnetism (BİYOMANYETİZMA)	3	1	6
BME330	Biosensors (BİYOSENSÖRLER)	3	1	6
BME332	Radiation and Health Physics (RADYASYON VE SAĞLIK FİZĞİ)	3	1	6
BME334	Biochemistry (BİYOKİMYA)	3	1	6
BME336	Cellculture (HÜCRE KÜLTÜRÜ)	3	1	6
BME338	Antisepsis, disinfection and sterilization methods (ANTİSEPS, DEZENFEKSİYON VE STERİLİZASYON METODLARI)	3	1	6
BME340	Antibiotics (ANTİBİYOTİKLER)	3	1	6
BME342	Microcontrollers and Applications (MİKODENETLEYİCİLER VE UYGULAMALARI)	3	1	6
BME344	Visual Programming (GÖRSEL PROGRAMLAMA)	3	1	6