

Study Programme at İzmir Kâtip Çelebi University Faculty of Engineering and Architecture Department of Biomedical Engineering 1st Year			
Course Code	Course Title	Semester	ECTS
MAT101	Calculus I	Autumn	7
PHY101	Physics I	Autumn	7
ATA101	Principles of Atatürk and History of the Turkish Revolution - I	Autumn	2
TDE101	Turkish Language and Literature I	Autumn	2
ENG111	English for Academic Reading and Speaking I	Autumn	3
CHE103	General Chemistry	Autumn	5
BME103	Introduction to Biomedical Engineering	Autumn	2
BME105	Computer Aided Technical Drawing	Autumn	2
MAT102	Calculus II	Spring	7
PHY102	Physics II	Spring	7
ATA102	Principles of Atatürk and History of the Turkish Revolution - II	Spring	2
TDE102	Turkish Language and Literature II	Spring	2
ENG112	English for Academic Reading and Speaking II	Spring	3
BME102	Organic Chemistry	Spring	3
BME104	Biophysics	Spring	3
BME106	Medical Biology	Spring	3

Study Programme at İzmir Kâtip Çelebi University Faculty of Engineering and Architecture Department of Biomedical Engineering 2nd Year			
Course Code	Course Title	Semester	ECTS
MAT201	Linear Algebra and Dif. Equations	Autumn	6
BME201	Technical Report Writing and Presentation Techniques	Autumn	4
BME203	Circuit Theory	Autumn	6
BME205	Human Anatomy and Physiology	Autumn	4
BME207	Molecular Biology	Autumn	3
COE201	Computer Programming	Autumn	4
	Non-Technical Elective I	Autumn	3
BME202	Tissue Engineering	Spring	4
BME204	Biomaterials and Biocompatibility	Spring	3
BME206	Electronics Circuits	Spring	6
BME208	Logic Design and Circuits	Spring	6
BME210	Biomedical Lab. I	Spring	4
BME212	Summer Practice I	Spring	4
	Non-Technical Elective II	Spring	3

Study Programme at İzmir Kâtip Çelebi University Faculty of Engineering and Architecture Department of Biomedical Engineering 3rd Year			
Course Code	Course Title	Semester	ECTS
BME301	Biomedical Signals and Systems	Autumn	6
BME303	Bio Transport Phenomena	Autumn	3
BME305	Biomechanics	Autumn	5
BME307	Biomedical Instrumentation	Autumn	6
BME309	Biomedical Ethics and Safety	Autumn	3
BME311	Biomedical Lab. II	Autumn	4
	Non-Technical Elective III	Autumn	3
BME302	Medical Imaging	Spring	3
BME304	Biomechanics Lab.	Spring	3
BME306	Metrology and Biomedical Calibration	Spring	3
BME308	Engineering Management	Spring	2
BME310	Summer Practice II	Spring	4
	Technical Elective I	Spring	6
	Technical Elective II	Spring	6
	Non-Technical Elective IV	Spring	3

TECHNICAL ELECTIVES - I,II		
Course Code	Course Title	ECTS
BME320	Biotechnology	6
BME324	Cardiovascular Physiology	6
BME326	Manufacturing Techniques in Biomedical Engineering	6
BME328	Biomagnetism	6
BME330	Biosensors	6
BME332	Radiation and Health Physics	6
BME334	Biochemistry	6
BME336	Cellculture	6
BME338	Antisepsis, disinfection and sterilization methods	6
BME340	Antibiotics	6
SME342	Microcontrollers and Applications	6
BME344	Visual Programming	6