Program Information Form

Program Name	Department of Biomedical Engineering Undergraduate
Academic Unit	Department of Biomedical Engineering
Programme Director	Mihrigül Altan
Type	Undergraduate Major Program
Level Of Qualification	This is a First Cycle (Bachelor's Degree) Program
Qualification Awarded	The students who successfully complete the program are awarded the degree of Bachelor of Science (B.S.) in Department of Biomedical Engineering Undergraduate
Mode Of Study	Full-Time
Specific Admission Requirements	Those who want to enroll in YTU undergraduate degree programs must get the sufficient score required by YTU from the exam administered by the Student Selection and Placement Center (OSYM) and should not have an existing enrollment in another higher education program. The rules and regulations in "Directive On Application and Registration of Foreign Students" are applied to the students from abroad who want to enroll in this program. The students who qualify to enroll in undergraduate degree programs whose medium of instruction is 30% English have to take English Proficiency Exam. "Directive on Instruction and Examination, School of Foreign Languages (YDYO)-YTU" and other regulations apply to English Proficiency Exam and Preparatory English Courses, except for the Foreign Languages Department English Language Teaching Program.
Specific Arrangements For Recognition Of Prior Learning	Admissions to YTU undergraduate programs via transfers from outside YTU are conducted as per the principles determined by the Senate within the framework of the provisions of the Rules and Regulations on the Principles of Transfers between Associate and Bachelor's Degree Programs at Higher Education Institutions, Double Major, Double Minor and Credit Transfers Between Higher Education Institutions published in the Official Gazette No.27561 of 24/4/2010. Procedures for the students placed in this programs through the Vertical Transfer Exam held by the Student Selection and Placement Center (OSYM) are to be carried out pursuant to the rules and principles stipulated in the Regulation on Transfer of the Students graduated from Vocational Schools and Open University Associate Degrees to the Undergraduate Education published in the Official Gazette No.24676 of 19/2/2002.
Qualification Requirements And Regulations	The undergraduate students in this program must be successful in all of the courses with a minimum achievement grade of DC, must have completed at least 240 ECTS credits and have scored a minimum CGPA of 2.00/4.00. At the same time, the students must complete their compulsory internship within the designated period of time and within the scope of necessary qualifications.
Profile Of The Programme	Biomedical Engineering is an interdisciplinary department that aims to solve the problems in the field of medicine and biology by using engineering methods and acts as a bridge between the biology-medicine and engineering. Designing new devices for diagnosis and treatment for diseases, development of artificial organs, researching biomaterial, enabling a better understanding of clinical functions by correctly interpreting clinical findings using various calculations and models to detect physiological signals etc. In this regard, Purpose of the Biomedical Engineering Programme; A- to educate both R&D and design and application engineers who can work in national and international organizations professionally by using the Biomedical Engineering theoretical knowledge and practical skill acquisition, B- to educate entrepreneurial and responsible engineers who can offer solutions in the field of biology and medicine.

Occupational Profiles Of Graduates With Examples	Graduates of this program are expect to work in various sectors. Design, production, R&D, sales and techinical services in the companies that produce medical devices; in biomedical calibration units, purchasing and technical specification commissions as a technical specialist and clinical engineer; law, regulation, market, surveillance and control, medical software, bioinformatics in public institutions such as the Ministry of Health.
Access To Further Studies	The graduates of this program can apply to master programs to enhance their academic skills and career.
Examination Regulations Assessment And Grading	Assessment of Success a) In assessing a student's performance in a course, the grade the student has scored during the semester work over a hundred and the grade the student has scored at the end of the semester over a hundred are taken into consideration. b) In measuring success, the weight of the grade during the semester is 60% and the weight of the final exam is 40%. Achievement Grade (1) In determining a grade, relative evaluation system is used. Achievement Grade is designated as follows: a) The meanings of the achievement grades are defined as follows: Achievement Grade Coefficient Achievement Degree AA 4.00 Excellent BA 3.50 Very good BB 3.00 Good CB 2.50 Average CC 2.00 Satisfactory DC 1.50 Provisionally Successful DD 1.00 Fail FD 0.50 Fail FF 0.00 Fail F0 0.00 NA G: Pass K: Fail İ: Leave of Absence M: Exemption E: Incomplete 2) (DC) indicates that the student has been provisionally successful in a course. For a student to be considered successful in a course, he must have a minimum GPA of 2.0. If a student has courses in which he has been provisionally successful in his instructional plan, he must have a minimum GPA of 2.0 to qualify for graduation. And, this course is included in his GPA. 3) G (Pass) indicates that the student has been successful/satisfactory in a course and not included in his GPA. 4) K (Fail) indicates that the student has been unsuccessful/unsatisfactory in a course and not included in his GPA. 5) İ (Leave of Absence) indicates that the student has been unable to complete the requirements of a course because of sickness or some other valid reason pursuant to the relevant provision of this Regulation and is not included in GPA until it is transformed into an achievement grade. If this course is not completed the following semester in which the course is available, İ automatically turns into an FF. 6) M (Exemption) indicates that the student have exemption for the previous program courses which are deemed equivalent to the courses offered in their new undergraduate program. Decision for the course exemption is made by the relevant faculty committee. The courses that student is exempt from are processed as a non-credit exemption and they are not included in the student's GPA.

	Make-up, Resit and Graduation Exams (1) A make-up exam is administered in place of a mid-term exam. In case of multiple make-up exams, the student can only sit in one of these exams. The provisions stipulated by the Senate apply to whether a student can sit in a make-up exam or how to administer a make-up exam. A make-up exam for the exams at the end of the semester won't be allowed. (2) The provisions regarding resit exams are as follows: a) For a student to be able to sit in a resit exam, he must have added the course at the beginning of the semester and must have fulfilled the requirements to be able to take this exam at the end of the semester. Students who have missed a resit exam cannot have a make-up exam for it. b) Students who have been unsuccessful or provisionally successful (not F0) can sit in resit exams. The score in a resit exam is considered a final at the end of the semester. An achievement grade is assigned at the end of a resit exam by taking the percentages of visas, assignments and the resit exam into consideration. c) A student who have missed a resit exam gets E (Incomplete) and remains as the achievement grade of the course. The resit achievement grades are included in semester grade average points. (3) The provisions regarding graduation exams are as follows: a) To be able to sit in a graduation exam, a student must have fulfilled the requirements to take the final exam at the end of the semester. The students who haven't qualified for a graduation exam can't sit in a make-up exam for this exam. b) The students who have to pass a maximum of two courses before their graduation are granted a graduation exam for the classes they have failed after the resit exam and within the period stated in the academic calendar. The students who are unable to graduate due to their GPA below 2.00 can take a graduation exam in two courses in which they have been provisionally successful. c) To be considered successful in a graduation exam, a student must get at least a CC. The grade taken in the exam takes the place of the achievement grade of the course. Visas and assignments aren't included in the assessment.
Graduation Requirements	To be able to qualify for graduation, students must complete all the courses in the instructional plan, assignments, field work, applied projects, assignments, workshops, seminars, attendance, laboratory work and other related activities with a minimum CGPA of 2.00.

Program Outcomes

1	PO-1.1) Getting sufficient knowledge in the field of Mathematics and Science
2	PO-1.2) Getting sufficient knowledge in the field of Civil Engineering
3	PO-1.3) An ability to apply knowledge gained in the field of Civil Engineering to solve complex engineering problems
4	PO-2.1) An ability to identify, define, formulate, and solve complex engineering problems
5	PO-2.2) An ability to select and apply appropriate analysis and modeling methods for this purpose.
6	PO-3.1) Ability to design a complex system, process, device or product to meet specific requirements under realistic constraints and conditions.
7	PO-3.2) An ability to apply modern design methods for this purpose.
8	PO-4.1) Ability to develop, select and use modern techniques and tools necessary for the analysis and solution of complex problems encountered in engineering applications.
9	PO-4.2) An ability to use information technologies effectively.
10	PO-5.1) An ability to design experiments to study complex engineering problems or discipline-specific research topics.

11	PO-5.2) Ability to conduct experiments to investigate complex engineering problems or discipline-specific research topics.
12	PO-5.3) Ability to collect data to examine complex engineering problems or discipline-specific research topics.
13	PO-5.4) An ability to analyze and interpet results for the study of complex engineering problems or discipline-specific research topics.
14	PO-6.1) Ability to work individually.
15	PO-6.2) Ability to work effectively in disciplinary teams.
16	PO-6.3) Ability to work effectively in multidisciplinary teams.
17	PO-7.1) An ability to communicate effectively, both orally and in writing.
18	PO-7.2) At least one foreign language knowledge.
19	PO-7.3) Ability to write effective reports and understand written reports.
20	PO-7.4) Ability to prepare design and production reports.
21	PO-7.5) Ability to give clear and understandable instructions.
22	PO-8.1) Being aware of the need for lifelong learning.
23	PO-8.2) Ability to constantly renew itself, access information and follow the developments in science and technology.
24	PO-9.1) Behaving in accordance with ethical principles, awareness of professional and ethical responsibility.
25	PO-9.2) To gain knowledge about the standards used in engineering applications.
26	PO-10.1) Information on business practices such as project management, risk management and change management.
27	PO-10.2) Awareness of entrepreneurship and innovation.
28	PO-10.3) Information on sustainable development.
29	PO-11.1) Universal and social health, environment and safety of engineering applications information about the effects on the problems and the problems reflected in the engineering field of the era.
30	PO-11.2) Awareness of the legal consequences of engineering solutions.

Curriculum							
1. Year - Fall Semester							
Code	Req.	Title	Lecture	Practical	Laboratory	Local Credit	ECTS
MAT1071		Mathematics 1	3	2	0	4	6
FIZ1001		Physics 1	3	0	2	4	6
KIM1170		General Chemistry	3	0	2	4	5
BME1101		Introduction to Biomedical Engineering	3	0	0	3	5
BME1901		Introductory Computer Sciences	2	0	2	3	4
MDB1031		Advanced English 1	3	0	0	3	3
TDB1031		Turkish language 1	2	0	0	0	2
						Total:	31
1. Year - Spring Semester							
Code	Req.	Title	Lecture	Practical	Laboratory	Local Credit	ECTS

Code		Title	Lecture	Practical	Laboratory	Local Credit	ECTS
MAT1072		Mathematics 2	3	2	0	4	6
FIZ1002		Physics 2	3	0	2	4	6
BME1132		Probability& Biostatistics	3	0	0	3	5
BME1532		Cell Biology	3	0	0	3	5
BME1902		Computer Aided Design	2	0	2	3	4
MDB1032		Advanced English 2	3	0	0	3	3
TDB1032		Turkish language 2	2	0	0	0	2
						Total:	31

2. Year - Fall Semester							
Code	Req.	Title	Lecture	Practical	Laboratory	Local Credit	ECTS
MAT1320		Linear Algebra	2	0	0	2	3
MAT2411		Differential Equations	4	0	0	4	5
BME2911		Introduction to Human Anatomy & Physiology	3	0	0	3	4
BME2901		Biochemistry	3	0	2	4	5
BME2301		Circuit Theory	4	0	2	5	6
BME2011		Occupational Health And Safety 1	2	0	0	2	2
SEC0001		Social Elective 1-1	3	0	0	3	3
SEC0002		Elective 1-1	2	0	0	2	2
						Total:	30

2. Year - Spring Semester							
Code	Req.	Title	Lecture	Practical	Laboratory	Local Credit	ECTS
BME2122		Signals & Systems	3	0	0	3	5
BME2912		Numerical Methods in Biomedical Engineering	3	0	0	3	5
BME2312		Analog Electronics	3	0	2	4	6
BME2322		Logic Design	2	0	2	3	5
BME2002		General Internship	0	0	0	0	3
BME2012		Occupational Health And Safety 2	2	0	0	2	2
SEC0003		Social Elective 2-1	3	0	0	3	4
						Total:	30

3. Year - Fall Semester							
Code	Req.	Title	Lecture	Practical	Laboratory	Local Credit	ECTS
BME3321		Introduction to Microcontroller Programming	3	0	2	4	5
BME3921		Biomechanics 1	3	0	0	3	5
BME3161		Biosignal Processing	3	0	0	3	4
BME3711		Biothermodynamics	3	0	0	3	4
ATA1031		Principles of Atatürk and History of Modern Turkey 1	2	0	0	0	2
SEC0004		Occupational Elective 1-1	3	0	0	3	5
SEC0005		Occupational Elective 2-1	3	0	0	3	5

						Total:	30

3. Year - Spring Semester

Code	Req.	Title	Lecture	Practical	Laboratory	Local Credit	ECTS
BME3142		Biomedical Modeling & Simulation	3	0	0	3	4
BME3402		Medical Instrumentation	3	0	2	4	6
BME3522		Biomaterials	3	0	0	3	5
BME3922		Biomechanics 2	3	0	0	3	5
BME3002		Professional Internship	0	0	0	0	3
ATA1032		Principles of Atatürk and History of Modern Turkey 2	2	0	0	0	2
SEC0006		Occupational Elective 1-2	3	0	0	3	5
						Total:	30

4. Year - Fall Semester

Code	Req.	Title	Lecture	Practical	Laboratory	Local Credit	ECTS
BME4901		Engineering Design	2	2	0	3	3
BME4911		Medical Imaging	3	0	2	4	5
SEC0007		Occupational Elective 1-3	3	0	0	3	5
SEC0008		Occupational Elective 1-4	3	0	0	3	5
SEC0009		Occupational Elective 2-2	3	0	0	3	5
SEC0010		Social Elective 2-2	3	0	0	3	4
SEC0011		Elective 2-1	0	2	0	1	3
						Total:	30

4. Year - Spring Semester

Code	Req.	Title	Lecture	Practical	Laboratory	Local Credit	ECTS
BME4000	☑	Graduation Thesis	0	8	0	4	8
	Önk:	BME4901					
BME4352		Therapeutic and Prosthetic Devices	3	0	0	3	4
SEC0012		Occupational Elective 1-5	3	0	0	3	5
SEC0013		Occupational Elective 2-3	3	0	0	3	5
SEC0014		Occupational Elective 2-4	3	0	0	3	5
SEC0015		Social Elective 1-2	3	0	0	3	3
						Total:	30
						Program Total ECTS:	242

Occupational Elective 1 Courses

Code	Req.	Title	Lecture	Practical	Laboratory	Local Credit	ECTS
EHM4130		Telecommunication Circuits	3	0	0	3	5
EHM4140		Electronic Design Automation	3	0	0	3	5
EHM4210		Sensors and Transducers	3	0	0	3	5
EHM4220		Satellite Communication	3	0	0	3	5

EHM4240		Computational Electromagnetics	3	0	0	3	5
EHM4260		Data Communications	3	0	0	3	5
EHM4270		Cellular Communication Systems 1	3	0	0	3	5
EHM4280		Cellular Communication Systems 2	3	0	0	3	5
EHM4290		Quantic Field Theory	3	0	0	3	5
BME4992		Vocational Education in Business 1	3	0	0	3	5
EHM4300		Introduction to Optical Fibers	3	0	0	3	5
EHM4310		Microwave Electronics	3	0	0	3	5
EHM4320		Introduction to Optoelectronics	3	0	0	3	5
EHM4330		Optical Communications Systems	3	0	0	3	5
EHM4340		Analog Integrated Circuits	3	0	0	3	5
EHM4350		Digital Electronic Circuits	3	0	0	3	5
EHM4360		Industrial Electronics	3	0	0	3	5
EHM4380		Integrated Circuit Design	3	0	0	3	5
EHM4390		Power Electronics	3	0	0	3	5
EHM4800		SEMICONDUCTOR ELECTRONICS	3	0	0	3	5
BME4530		Biofluid Mechanics and Mass Transport	3	0	0	3	5
EHM4810		Medical Electronics	3	0	0	3	5
BME3330		Biolectromagnetism	3	0	0	3	5
EHM4830		Programmable Logic Circuit Design	3	0	0	3	5
BME4120		Biomedical Image Processing	3	0	0	3	5
EHM4850		Communication Theory	3	0	0	3	5
BME3341		Biomedical Sensors & Actuators	3	0	0	3	5
EHM4860		Principles Digital Communications Systems	3	0	0	3	5
EHM4870		Computer-Aided Analysis, Modelling Design of Microwave Networks by the Wave Approach	3	0	0	3	5
EHM4880		An Introduction to Electronic Defence Systems	3	0	0	3	5
BME3511		Instrumental Analysis	3	0	0	3	5
EHM4890		Digital Video Transmission and Broadcasting	3	0	0	3	5
BME3170		Medical Informatics	3	0	0	3	5
BME4142		Physiological Control Systems	3	0	0	3	5
BME3380		Robotics for Healthcare	3	0	0	3	5
BME3700		Analog Electronic Applications	3	0	0	3	5
IKT3650		Sustainable Development	3	0	0	3	5
BYM3802		Artificial Organs	3	0	0	3	5
BME4600		Fluid Mechanics	3	0	0	3	5
BME3310		System Identification	3	0	0	3	5
BME2132		Discrete Mathematics	3	0	0	3	5
BME3120		Digital Signal Processing	3	0	0	3	5
BME4141		Biomedical System Estimation	3	0	0	3	5

Code	Req.	Title	Lecture	Practical	Laboratory	Local Credit	ECTS
BME4110		Quantum Physics for Engineers	3	0	0	3	5
BLM3110		Special Topics in Computer Engineering	3	0	0	3	5
BLM3120		Information Retrieval and Web Search Engines	3	0	0	3	5
BLM3130		Introduction To Game Development	3	0	0	3	5
BLM3580		System Programming	3	0	0	3	5
BLM3620		Digital Signal Processing	3	0	0	3	5
BLM3720		Introduction to Computer Graphics	3	0	0	3	5
BLM3740		Operational Research	3	0	0	3	5
BLM3760		Introduction to Expert Systems	3	0	0	3	5
BLM3810		Introduction to Bioinformatics	3	0	0	3	5
BLM4110		Web Services and Service Oriented Architecture	3	0	0	3	5
BLM4120		Big Data Processing and Analytics	3	0	0	3	5
BLM4520		Introduction to Neural Networks	3	0	0	3	5
BLM4530		Fuzzy Logic	3	0	0	3	5
BLM4540		Image Processing	3	0	0	3	5
BLM4580		Introduction to Natural Language Processing	3	0	0	3	5
BLM4760		Distributed Systems	3	0	0	3	5
BLM4830		Introduction to Robot Technologies	3	0	0	3	5
BLM4860		Compiler Design	3	0	0	3	5
BLM4920		Real Time Systems	3	0	0	3	5
BME3210		Cardiovascular Mechanics	3	0	0	3	5
BME3360		Biomems	3	0	0	3	5
BME3500		Introduction to Neural Engineering	3	0	0	3	5
BME2112		Advenced Engineering Mathematics	3	0	0	3	5
BME3180		Machine Learning in Biomedical Engineering	3	0	0	3	5

Elective 1 Courses							
Code	Req.	Title	Lecture	Practical	Laboratory	Local Credit	ECTS
MDB2051		Reading and Speaking in English	2	0	0	2	2
MDB3032		Business English	2	0	0	2	2

Elective 2 Courses							
Code	Req.	Title	Lecture	Practical	Laboratory	Local Credit	ECTS
BLM4991		Multidisciplinary Design Project	0	2	0	1	3
BME4991		Multidisciplinary Design Project	0	2	0	1	3
EHM4991		Multidisciplinary Design Project	0	2	0	1	3
ELM4991		Multidisciplinary Design Project	0	2	0	1	3
KOM4991		Multidisciplinary Design Project	0	2	0	1	3

Social Elective 1 Courses							
Code	Req.	Title	Lecture	Practical	Laboratory	Local Credit	ECTS

SBP2020		Earthquake and Planning	3	0	0	3	3
MIM2010		Sustainability	3	0	0	3	3
MDB1010		Greek for Beginners 2	3	0	0	3	3
CEV3334		Environment and Human	3	0	0	3	3
MAT4279		Fundamental Rights and Responsibilities in Higher Education	3	0	0	3	3
BME4995		Vocational Education in Business 4	3	0	0	3	3
PDR2021		Special Education	3	0	0	3	3
TRO2271		Motifs in the Old Turkish Literature	3	0	0	3	3
TRO2281		Turkish Language History	3	0	0	3	3
EGT1022		Social anthropology	3	0	0	3	3
EGT4041		Education management	3	0	0	3	3
EGT2031		Human Resources Management	3	0	0	3	3
BED3011		Education of Basic Techniques in Basketball	3	0	0	3	3
BED4021		Exercise and Mental Health	3	0	0	3	3
BED3041		Soccer and Basic Movement Teaching	3	0	0	3	3
BED4031		Principle figures of the folk dances	3	0	0	3	3
BED3051		Education of Basic Techniques in Handball	3	0	0	3	3
BED3012		Education of Basic Techniques in Korfball	3	0	0	3	3
BED4022		Tennis Technic and Tactic Education	3	0	0	3	3
BED3042		Education of Basic Techniques in Volleyball	3	0	0	3	3
BED4032		Education of Fundamental Swimming Techniques	3	0	0	3	3
MEM4501		Ceramics	3	0	0	3	3
TRO2261		Turkish Language Teaching Literary Texts	3	0	0	3	3
TRO4522		Structure of Discourse and Genre Analysis	3	0	0	3	3
SNF2112		Geography and geopolitics of Turkey	3	0	0	3	3
TRO4532		Rhetorical Structure Theory and Text Analysis	3	0	0	3	3
ISL2560		Public Relations in Business	3	0	0	3	3
ISL2710		Family Businesses and Institutionalization	3	0	0	3	3
ISL2630		Team Building and Development	3	0	0	3	3
ISL2901		Direct Marketing	3	0	0	3	3
ISL2760		Fundamentals of Logistics Management	3	0	0	3	3
SBP2031		Urban Economics	3	0	0	3	3
ITB3330		Environment and Ecology	3	0	0	3	3
ILT1611		Techniques Of Photography	3	0	0	3	3
ISL2170		Accounting Organization	3	0	0	3	3
ITB3610		Technics Of Writing	3	0	0	3	3
ITB3320		Economic Crimes	3	0	0	3	3

ITB3310		Crime and Punishment: Criminological Perspective	3	0	0	3	3
TRO2291		The Art of Applied	3	0	0	3	3
ILT1621		Graphıc Media Design Tools	3	0	0	3	3
SBP2082		Urban Sociology	3	0	0	3	3
SYP2192		Cultural management and Its Agents 2	3	0	0	3	3
SYP3241		Public Relations	3	0	0	3	3
MIM1422		Introduction to History of Art and Architecture	3	0	0	3	3
MIM2421		History of Architecture	3	0	0	3	3
MIM2411		Archeology	3	0	0	3	3
MIM1412		History of Civilization	3	0	0	3	3
HRT2941		History of Geomatic Engineering Science	3	0	0	3	3
MDB1052		English 2	3	0	0	3	3
MDB4031		Advanced German	3	0	0	3	3
MDB4041		Reading &Speaking in German	3	0	0	3	3
FIZ1110		Scientific Research Techniques	3	0	0	3	3
INS2462		Traffic Safety	3	0	0	3	3
FEL2160		Moral Philosophical Texts 1	3	0	0	3	3
FEL2270		Western Philosophy 1	3	0	0	3	3
FEL2280		Western Philosophy 2	3	0	0	3	3
FEL3230		Contemporary Philosophy Readings 1	3	0	0	3	3
FEL4251		Philosophy of Science	3	0	0	3	3
FEL3240		Contemporary Philosophy Readings 2	3	0	0	3	3
FEL3330		Philosophical Literatures 1	3	0	0	3	3
FEL3340		Philosophical Literatures 2	3	0	0	3	3
FEL3350		Ancient Philosophy	3	0	0	3	3
FEL3410		Political Philosophy Texts	3	0	0	3	3
MTP4760		Dance in Istanbul from the 16th Century to the Present	3	0	0	3	3
TDB4011		Effective Communication and Impromptu Presentation Skills	3	0	0	3	3
TDB4021		Speech Techniques and Elocution	3	0	0	3	3
TDB4031		Oratory and Diction	3	0	0	3	3
TDB4041		Turkish Story and Novel	3	0	0	3	3
GRA4120		Experimental Typography	3	0	0	3	3
BLM2110		Introduction to Cyber Security	3	0	0	3	3
ITB1680		Introduction to Polyphonic Music	3	0	0	3	3
ITB2110		Grammatical Structure of Ottoman Turkish and Texts 1	3	0	0	3	3
ITB2120		Grammatical Structure of Ottoman Turkish and Texts 2	3	0	0	3	3

ISL1150		Career Planning	3	0	0	3	3
MDB1009		Greek for Beginners 1	3	0	0	3	3
GIM4151		Innovation and Entrepreneurship	3	0	0	3	3
MDB1013		Japanese for Beginners 1	3	0	0	3	3
DNS1220		Body Awareness and Breathing Techniques	3	0	0	3	3
MDB1016		Arabic for Beginners 2	3	0	0	3	3
DNS1230		Introduction to Contemporary Dance Technique	3	0	0	3	3
MDB1011		Chinese for Beginners 1	3	0	0	3	3
DNS1240		Yoga and Anatomy	3	0	0	3	3
MDB1015		Arabic for Beginners 1	3	0	0	3	3
TDB4051		Academic Turkish	3	0	0	3	3
MDB1017		Persian for Beginners 1	3	0	0	3	3
TDB4061		Seven Hills İstanbul	3	0	0	3	3
BED1013		Pilates Basic Training	3	0	0	3	3
BED1014		Yoga Basic Training	3	0	0	3	3
EUT2022		Introduction to NFT	3	0	0	3	3
GRA2024		Sanal Evrene Giriş	3	0	0	3	3
MDB1001		French for Beginners 1	3	0	0	3	3
MDB1003		Spanish for Beginners 1	3	0	0	3	3
MDB1004		Spanish for Beginners 2	3	0	0	3	3
MDB1005		Hungarian for Beginners 1	3	0	0	3	3
MDB1007		Italian for Beginners 1	3	0	0	3	3
MDB1019		Russian for Beginners 1	3	0	0	3	3
MDB1101		Bulgarian for Beginners 1	3	0	0	3	3
MDB1201		Romanian for Beginners 1	3	0	0	3	3
MDB2001		Introduction to Translation Skills	3	0	0	3	3
MDB2003		Public Speaking	3	0	0	3	3
ITB4040		Voluntering Studies	2	2	0	3	3
MDB4011		Introduction to German Language Skills	3	0	0	3	3
MDB4021		German Language Skills	3	0	0	3	3
ITB2020		History of Science	3	0	0	3	3
ITB2030		Philosophy of Science	3	0	0	3	3
ITB2040		Economic Policies and Applications	3	0	0	3	3
ITB2080		Women in Social Transformations	3	0	0	3	3
ITB2090		Democracy Culture Principles and Institutions	3	0	0	3	3
ITB3010		Sociology	3	0	0	3	3
ITB3020		Introduction to Philosophy	3	0	0	3	3
ITB3040		Political Developments and Social Movements in Twentieth-Century	3	0	0	3	3

Code	Req.	Title	Lecture	Practical	Laboratory	Local Credit	ECTS
ITB3130		Political Ideologies: Theory and History	3	0	0	3	3
ITB3150		History and Cinema	3	0	0	3	3
ITB3210		Communication in Contemporary Society	3	0	0	3	3
ITB3220		Modernity and Consumer Society	3	0	0	3	3
ITB3250		Introduction to Psychology	3	0	0	3	3
ITB3260		Cultural Studies and Identity	3	0	0	3	3
ITB3270		Istanbul: Past, Present, and Future	3	0	0	3	3
ITB3330		Environment and Ecology	3	0	0	3	3
ITB3360		History of Art	3	0	0	3	3
ITB3390		History of Civilizations	3	0	0	3	3
ITB3420		The Social Structure of Ottoman Empire	3	0	0	3	3
ITB3550		Human Rights	3	0	0	3	3
ITB3560		Political Philosophy	3	0	0	3	3
ITB3570		Philosophy of Education	3	0	0	3	3
ITB4930		History of Architecture	3	0	0	3	3
ITB4100		Social Structures and Historical Transformations	3	0	0	3	3
Social Elective 2 Courses							
Code	Req.	Title	Lecture	Practical	Laboratory	Local Credit	ECTS
IKT3322		Macroeconomic Policies	3	0	0	3	4
IKT3562		History of Turkish Administration	3	0	0	3	4
ISL1611		Introduction to Business	3	0	0	3	5
ISL1711		Introduction to Law	3	0	0	3	5
ISL1622		Behavior Science	3	0	0	3	4
ISL3411		Marketing	3	0	0	3	4
ISL3621		Production Management	3	0	0	3	4
ISL3522		International Marketing	3	0	0	3	4
ISL3912		Human Resource Management (Business Administration)	3	0	0	3	4
ISL4551		Operations Research 1	3	0	0	3	4
ISL3040		Team Building and Development in Organizations	3	0	0	3	4
ISL3531		Behavioral Sustainability	3	0	0	3	4
ISL3631		Career and Work Psychology	3	0	0	3	4
ISL3660		Business Communication	3	0	0	3	4
ISL3930		Corporate Reputation from the Behavioral Perspective	3	0	0	3	4
ISL3972		Occupational Health and Safety Law	3	0	0	3	4
ISL4420		Sales Management	3	0	0	3	4
ISL4611		Business Ethics	3	0	0	3	4

Code	Req.	Title	Lecture	Practical	Laboratory	Local Credit	ECTS
ISL4640		Entrepreneurship	3	0	0	3	4
ISL4760		Financial and Cost Accounting	3	0	0	3	4
ISL4851		Innovation Management in Management	3	0	0	3	4
ISL4860		Consumer Behaviour	3	0	0	3	4

Occupational Elective 2 Courses							
Code	Req.	Title	Lecture	Practical	Laboratory	Local Credit	ECTS
BME4993		Vocational Education in Business 2	3	0	0	3	5
BME4994		Vocational Education in Business 3	3	0	0	3	5
BME4370		Artificial Organs & Life Support Systems	3	0	0	3	5
BME4570		Biomedical Optics & Lasers	3	0	0	3	5
BME3150		Clinical Engineering	3	0	0	3	5
BME4730		Medical Device Development Guidelines & Regulation	3	0	0	3	5
BME4550		Nanotechnology & Nanomaterials	3	0	0	3	5
BME4220		Neurophysiologv & Applications	3	0	0	3	5
BME4500		Introduction to Nuclear Medicine	3	0	0	3	5
BME3600		Special Topics in Biomedical Engineering	3	0	0	3	5
BME4360		Teuraupethic Devices	3	0	0	3	5
BME4720		Medical Instrumentation Safety	3	0	0	3	5
BME3540		Cell and Tissue Engineering	3	0	0	3	5
BME4580		Genetic Engineering	3	0	0	3	5
BME3570		Biosensors	3	0	0	3	5
BME3160		Bioinformatics	3	0	0	3	5

Extra Notes	