

Graduation requirements for students whose first semester start at or after Fall 2016 are as follows:

1. 176,5 ECTS core courses listed below.
2. At least 6 elective courses. Total credits for these courses must be at least 18,5 ECTS. One of these courses must be 2-ECTS course. Other 2-ECTS courses (except Cultural Activities) are not counted for credits but GPA.
3. At least 10 area elective courses. Total credits for these courses must be at least 45 ECTS. Students cannot register to these courses before their fifth semester.
4. Total credits must be at least 240 ECTS.
5. All registered courses must be offered in English. If an elective course is not offered in English, you can register it in Turkish.

Undergraduate curriculum for the students whose 1st semester will start at or after Fall 2016

I. Semester

Code	Course Name	T	L	E
MAT805	Calculus I	4	2	7,5
KIM113	General Chemistry	4	0	6,0
FIZ105	Physics I	4	0	6,0
FIZ107	Physics Laboratory I	0	2	1,5
BIM101	Computer Programming I	3	2	7,0
TUR125	Turkish Language I	2	0	2,0
Total Credits				30,0

II. Semester

Code	Course Name	T	L	E
MAT806	Calculus II	4	2	7,5
FIZ106	Physics II	4	0	6,0
FIZ108	Physics Laboratory II	0	2	1,5
BIM122	Discrete Computational Structures	3	0	5,0
BIM102	Computer Programming II	3	0	6,0
TUR126	Turkish Language II	2	0	2,0
	Elective Course (1)	2	0	2,0
Total Credits				30,0

III. Semester

Code	Course Name	T	L	E
BIM207	Computer Programming III	2	2	6,0
BIM213	Data Structures and Algorithms	4	0	5,5
BIM203	Logic Design	4	0	6,0
BIM209	Principles Software Design and Development	3	0	6,0
MAT249	Linear Algebra and Differential Equations	3	0	4,5
TAR165	Ataturk's Principles and History of Turkish Revolution I	2	0	2,0
Total Credits				30,0

IV. Semester

Code	Course Name	T	L	E
BIM204	Numeric Analysis for Computer Engineers	3	0	3,5
BIM222	Internet Programming	3	0	4,5
BIM314	Theory of Computation	3	0	4,5
BIM208	Computer Programming IV	3	0	5,5
BIM312	Database Management Systems	3	0	6,0
IST252	Probability and Statistics	3	0	4,0
TAR166	Ataturk's Principles and History of Turkish Revolution II	2	0	2,0
Total Credits				30,0

V. Semester

Code	Course Name	T	L	E
BIM311	Systems Analysis and Design	3	0	4,5
BIM313	Advanced Programming Techniques	3	2	6,0

VI. Semester

Code	Course Name	T	L	E
BIM304	Computer Algorithm Design	3	0	6,0
BIM306	Operating Systems	3	0	4,5

BIM303	Microcomputers	3	2	7,0
BIM305	Computer Organization	3	0	5,0
	Elective Course (1)	3	0	3,0
	Area Elective Course (1)	3	0	4,5
Total Credits				30,0

VII. Semester

Code	Course Name	T	L	E
BIM437	Computer Engineering Design	1	2	4,0
ISG401	Is Sagligi ve Guvenligi I	2	0	2,0
	Area Elective Courses (4)			18,0
	Elective Courses (2)			6,0
Total Credits				30,0

BIM308	Web Server Programming	3	0	6,0
BIM302	Computer Networks	3	0	4,5
	Elective Course (1)	3	0	4,5
	Area Elective Course (1)	3	0	4,5
Total Credits				30,0

VIII. Semester

Code	Course Name	T	L	E
BIM444	Computer Engineering Applications	2	4	7,0
ISG402	Is Sagligi ve Guvenligi II	2	0	2,0
	Area Elective Courses (4)			18,0
	Elective Course (1)			3,0
Total Credits				30,0

Area Elective Courses

Code	Course Name	T	L	E
BIM309	Artificial Intelligence	3	0	4,5
BIM405	Project Management	3	0	4,5
BIM423	Software Engineering	3	2	6,0
BIM446	Analysis of Algorithms	3	0	4,5
BIM448	Computer Graphics	3	0	4,5
BIM450	Network Management	3	0	4,5
BIM452	Multimedia Computing	3	0	4,5
BIM454	Programming Language Concepts	3	0	4,5
BIM456	Network Security Principles	3	0	4,5
BIM458	Simulation and Modelling	3	0	4,5
BIM460	Software Modelling	3	0	4,5
BIM462	Parallel Systems	3	0	4,5
BIM464	Human-Computer Interaction	3	0	4,5
BIM466	Fuzzy Logic	3	0	4,5
BIM468	Computer Aided Design	3	0	4,5
BIM439	Applications of Database Management Systems	3	0	4,5
BIM470	Neural Networks	3	0	4,5
BIM493	Mobile Programming I	3	0	4,5
BIM494	Mobile Programming II	3	0	4,5

Code	Course Name	T	L	E
BIM472	Image Processing	3	0	4,5
BIM474	Introduction to Cryptography	3	0	4,5
BIM476	Data Acquisition and Processing	3	0	4,5
BIM478	Management Information Systems	3	0	4,5
BIM480	Compiler Design	3	0	4,5
BIM482	Network Programming	3	0	4,5
BIM484	Distributed Systems	3	0	4,5
BIM485	Research in Computer Science I	3	0	4,5
BIM486	Research in Computer Science II	3	0	4,5
BIM488	Introduction to Pattern Recognition	3	0	4,5
BIM490	Introduction to Information Retrieval	3	0	4,5
BIM492	Design Patterns	3	0	4,5
EEM305	Signals and Systems	3	0	4,5
EEM334	Digital Systems II	3	0	4,5
MUH302	Interdisciplinary Applications	1	2	4,5
BIM441	Introduction to Rough Sets Theory	3	0	4,5
BIM496	Computer Vision	3	0	4,5
BIM451	Web Server Programming with MVC	3	0	4,5
BIM498	Embedded Software Design	3	0	4,5
BIM453	Introduction to Machine Learning	3	0	4,5
BIM457	Embedded Programming Languages	3	0	4,5
BIM455	Introduction to Hardware Design	3	0	4,5

Elective Courses

Code	Course Name	T	L	E
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Code	Course Name	T	L	E
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ALM255	Almanca I	Alm.	3+0	4,0
ALM256	Almanca II	Alm.	3+0	4,0
ALM357	Almanca III	Alm.	3+0	4,0
ALM358	Almanca IV	Alm.	3+0	4,5
ARK108	Arkeoloji		2+0	2,0
BEÖ155	Beden Egitimi		2+0	2,0
BIM411	Decision Support Systems (Karar Destek Sistemleri)	Ing.	3+0	3,0
FOT202	Fotografçılık		2+0	3,0
FRA255	Fransızca I	Fra.	3+0	4,0
FRA256	Fransızca II	Fra.	3+0	4,0
HUK458	Sinai Haklar Sistemi ve Teknolojik Gelisme		3+0	3,0
ILT201	Interpersonal Communication (Bireylerarası İletişim)	Ing.	3+0	4,5
ISN309	Mass Media (Kitle İletişimi)	Ing.	3+0	3,0
IsL101	Introduction to Business (Genel İşletme)	Ing.	3+0	4,5
IsL301	Human Resources Management (İnsan Kaynakları Yönetimi)	Ing.	3+0	4,0
ISL321	Uygulamalı Girişimcilik	3	3+1	5,0
IKT151	Economics (Genel İktisat)	Ing.	3+0	3,0
IKT356	Engineering Economics (Mühendislik Ekonomisi)	Ing.	3+0	4,5
ISP151	İspanyolca I	Isp.	4+0	4,0
ISP152	İspanyolca II	Isp.	4+0	4,0

ITA255	İtalyanca I	Ita.	3+0	4,0
ITA256	İtalyanca II	Ita.	3+0	4,0
KÜL199	Kültürel Etkinlikler		0+2	2,0
MUH402	Engineering Ethics (Mühendislik Etiği)	Ing.	2+0	3,0
MUH404	Innovation Management (Yenilik Yönetimi)	Ing.	3+0	3,0
MUZ151	Muzik Tarihi		2+0	3,0
MUZ157	Türk Sanat Tarihi		2+0	2,0
MUH151	Introduction to Accounting (Genel Muhasebe)	Ing.	3+0	4,5
NÜM301	Numerical Methods (Sayısal Yöntemler)	Ing.	3+0	3,5
PSI102	Psychology (Psikoloji)	Ing.	3+0	3,5
PZL302	Marketing Management (Pazarlama Yönetimi)	Ing.	3+0	4,5
RUS255	Rusça I	Rus.	3+0	4,0
RUS256	Rusça II	Rus.	3+0	4,0
SNT155	Sanat Tarihi		2+0	2,0
THU203	Topluma Hizmet Uygulamaları		0+2	3,0
TIY121	Tiyatroya Giriş		2+0	3,0
TIY152	Tiyatro		2+0	2,5
TIY308	Cumhuriyet Dönemi Türk Tiyatrosu		2+0	3,0
TÜR120	Türk İşaret Dili		3+0	3,0

Abbreviations: Lang.=Course Language | T=Theory hours/week | L=Laboratory hours/week | E=ECTS credits