Graduation requirements for students whose first semester start at or after Fall 2020 are as follows:

1. 177,5 ECTS core courses listed below.
2. At least 6 elective courses. Total credits for these courses must be at least 17,5 ECTS. One of these courses must be an elective course specific to Higher Education Council (HEC) of Turkiye. More than one elective courses specific to HEC 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. Minimum GPA must be at least 2.0.
5. All registered courses must be offered in English. Only if an elective course is not offered in English, you can then register it in Turkish.
6. Students have to complete their mandatory 40-day internship.

(*) Starting from 2021-2022 Fall semester, all students must register to "MAT247 Eng. Mathematics" instead of "BIM313 Adv. Prog. Techniques" regardless of the year of university registration.
(**) Starting from 2021-2022 Fall semester, the minimum required ECTS credits of this course have been updated as 2.0 (instead of 3.0) for the students registered to MAT247 instead of BIM313.

Undergraduate curriculum for the students whose 1st semester will start at or after Fall 2020

I. Semester

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

II. Semester

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

III. Semester

Code	Course Name	T	L	E
BIM203	Logic Design	4	0	6,0
BIM207	Computer Programming III	2	2	6,0
BIM209	Principles of Software Des. And Dev.	3	0	6,0
BIM213	Data Structures and Algorithms	2	2	5,5
MAT249	Linear Algebra and Differential Equations	3	0	4,5
TAR165	Ataturk Ilkeleri ve Inkilap Tarihi 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
BIM208	Computer Programming IV	3	0	5,5
BIM222	Internet Programming	3	0	4,5
BIM312	Database Management Systems	3	0	6,0
BIM314	Theory of Computation	3	0	4,5
IST252	Probability and Statistics	3	0	4,0
TAR166	Ataturk Ilkeleri ve Inkilap Tarihi II	2	0	2,0
Total Credits				**30,0**

V. Semester				
Code	**Course Name**	**T**	**L**	**E**
BIM303	Microcomputers	3	2	7,0
BIM305	Computer Organization	3	0	5,0
BIM311	Systems Analysis and Design	3	0	4,5
MAT247	Engineering Mathematics (*)	4	0	7,0
	Elective Course (**)			2,0
	Area Elective Course			4,5
Total Credits				**30,0**

VI. Semester				
Code	**Course Name**	**T**	**L**	**E**
BIM302	Computer Networks	3	0	4,5
BIM304	Computer Algorithm Design	3	0	6,0
BIM306	Operating Systems	3	0	4,5
BIM308	Web Server Programming	3	0	6,0
	Elective Course			4,5
	Area Elective Course			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
	Elective Courses (2)			6,0
	Area Elective Courses (4)			18,0
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
	Elective Course			3,0
	Area Elective Courses (4)			18,0
Total Credits				**30,0**

Area Elective Courses				
Code	**Course Name**	**T**	**L**	**E**
BIM309	Artificial Intelligence	3	0	4,5
BIM423	Software Engineering	3	2	6,0
BIM439	Applications of DBMS	3	0	4,5
BIM443	Blockchain and Cryptocurrency Techno.	3	0	4,5
BIM451	Web Server Programming with MVC	3	0	4,5
BIM466	Fuzzy Logic	3	0	4,5
BIM470	Neural Networks	3	0	4,5
BIM476	Data Acquisition and Processing	3	0	4,5
BIM485	Research in Computer Science I	3	0	4,5
BIM488	Introduction to Pattern Recognition	3	0	4,5
BIM493	Mobile Programming I	3	0	4,5
BIM446	Analysis of Algorithms	3	0	4,5
BIM450	Network Management	3	0	4,5
BIM452	Multimedia Computing	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
BIM468	Computer Aided Design	3	0	4,5
BIM405	Project Management	3	0	4,5
BIM445	Enterprise IT Arhitecture	2	0	3,0
BIM448	Computer Graphics	3	0	4,5
BIM454	Programming Language Concepts	3	0	4,5
BIM472	Image Processing	3	0	4,5
BIM478	Management Information Systems	3	0	4,5
BIM486	Research in Computer Science II	3	0	4,5
BIM490	Introduction to Information Retrieval	3	0	4,5
BIM492	Design Patterns	3	0	4,5
BIM494	Mobile Programming II	3	0	4,5
BIM496	Computer Vision	3	0	4,5
BIM474	Introduction to Cryptography	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
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
BIM498	Embedded Software Design	3	0	4,5
BIM453	Introduction to Machine Learning	3	0	4,5

Code	Course Name	T	L	E	Code	Course Name	T	L	E
ENM440	Introduction to Data Mining	3	0	4,5	BIM457	Embedded Programming Languages	3	0	5,0
EEM463	Introduction to Image Processing	3	0	5,0	BIM455	Introduction to Hardware Design	3	0	4,5

Elective Courses

Code	Course Name	T	L	E	Code	Course Name	T	L	E
ALM255	Almanca I	3	0	4,0	ITA255	Italyanca I	3	0	4,0
ALM256	Almanca II	3	0	4,0	ITA256	Italyanca II	3	0	4,0
ALM357	Almanca III	3	0	4,0	MUH402	Engineering Ethics	2	0	3,0
ALM358	Almanca IV	3	0	4,5	MUH404	Innovation Management	3	0	3,0
ARK108	Arkeoloji	2	0	2,0	MUZ151	Muzigin Tarihcesi	2	0	3,0
BEO155	Beden Egitimi	2	0	2,0	MUZ157	Turk Sanat Tarihi	2	0	2,0
BIM411	Decision Support Systems	3	0	3,0	MUH151	Introduction to Accounting	3	0	4,5
FOT202	Fotografcilik	2	0	3,0	NUM301	Numerical Methods	3	0	3,5
FRA255	Fransizca I	3	0	4,0	PSI102	Psychology	3	0	3,5
FRA256	Fransizca II	3	0	4,0	PZL302	Marketing Management	3	0	4,5
HUK458	Sinai Haklar Sistemi ve Teknolojik Gelisme	3	0	3,0	RUS255	Rusca I	3	0	4,0
ILT201	Interpersonal Communication	3	0	4,5	RUS256	Rusca II	3	0	4,0
ISN309	Mass Media	3	0	3,0	SNT155	Sanat Tarihi	2	0	2,0
ISL101	Introduction to Business	3	0	4,5	THU203	Topluma Hizmet Uygulamalari	0	2	3,0
ISL301	Human Resources Management	3	0	4,0	TIY121	Tiyatroya Giris	2	0	3,0
ISL321	Uygulamali Girisimcilik	3	1	5,0	TIY152	Tiyatro	2	0	2,5
IKT151	Economics	3	0	3,0	TIY308	Cumhuriyet Donemi Turk Tiyatrosu	2	0	3,0
IKT356	Engineering Economics	3	0	4,5	TUR120	Turk Isaret Dili	3	0	3,0
ISP151	Ispanyolca I	4	0	4,0	ESTU101	Universite Hayatina Giriş	0	1	2,0
ISP152	Ispanyolca II	4	0	4,0	ESTU102	Negotiation Techniques	2	0	3,0
ESTU115	Fotografik Bakis	2	1	3,0	ESTU103	Seramik Tasarim Surecleri	2	1	3,0
ESTU116	Bilgisayar Destekli Tasarim I	3	0	3,0	ESTU104	Akademik Basari ve Yasam Becerileri	2	1	3,0
ESTU117	Bilgisayar Destekli Tasarim II	3	0	3,0	ESTU111	Gonulluluk Calismalari	1	2	4,0
ESTU118	Kavramlarla Gorsel Dusunme	3	0	3,0	ESTU112	Herkes Icin Siber Guvenlik	2	0	2,0
ESTU119	Flut	3	1	3,0	ESTU113	Tasarim Odakli Dusunme	3	0	2,0
ESTU120	Solfej	3	1	3,0	ESTU114	Gorsel Dusunme	3	0	3,0
ISL475	Tekno-Girisimcilik	3	0	4,0	ESTU121	Piyano	3	1	3,0
ILT419	Beden Dili ve Diksiyon	2	0	5,0	ESTU122	Gitar	3	1	3,0
ESTU106	Proje Yonetimi	2	1	3,0	JAP301	Japonca I	4	0	4,0
					JAP302	Japonca II	4	0	4,0
					ESTU401	Profesyonel Hayata Gecis	1	1	2,0

Abbreviations: T=Theory hours/week | L=Laboratory hours/week | E=ECTS credits