ATATÜRK ÜNİVERSİTESİ
MÜHENDİSLİK FAKÜLTESİ
BİLGİSAYAR MÜHENDİSLİĞİ BÖLÜMÜ LİSANS PROGRAMI ÖĞRETİM PLANI (İNGİLİZCE)

Bu öğretim planı toplam **152** KREDİ, **240** AKTS olarak, **2022-2023 eğitim-öğretim yılından** itibaren uygulanacaktır.
Üniversite Seçmeli Ders Toplam AKTS: **12** Seçmeli Ders Oranı: **20,0** Uzaktan Eğitim Yoluyla Okutulan Ders Oranı (%): **10,4**

1. SINIF

1. YARIYIL

Kodu	Ders Adı	Course Title	Türü	Eğitim Şekli	T	U	L	K	AKTS
AIT101	Atatürk's Principles and History of Turki	Atatürk's Principles and History of Turki	OZ	UE	2	0	0	2	1
YDZ101	Foreign Language I	Foreign Language I	OZ	UE	2	0	0	2	1
FMT159	Calculus I	Calculus I	Z	YE	4	0	0	4	6
FFZ109	Physics I	Physics I	Z	YE	3	0	0	3	4
FKM119	Chemistry	Chemistry	Z	YE	3	0	0	3	5
MBI101	Introduction to Computer Engineering	Introduction to Computer Engineering	Z	UE	2	0	0	2	3
MBI103	Introduction to Programming	Introduction to Programming	Z	YE	3	0	2	4	7
MBI105	Introduction to Information Technologies	Introduction to Information Technologies	Z	YE	2	0	0	2	3
				TOPLAM	**21**	**0**	**2**	**22**	**30**
				UE Ders Toplam	6	0	0	0	**5**
				Seçmeli Ders Toplam	0	0	0	0	**0**
				Üniversite Seçmeli Ders Toplam	0	0	0	0	**0**

2. YARIYIL

Kodu	Ders Adı	Course Title	Türü	Eğitim Şekli	T	U	L	K	AKTS
AIT102	Atatürk's Principles and History of Turki	Atatürk's Principles and History of Turki	OZ	UE	2	0	0	2	1
YDZ102	Foreign Language II	Foreign Language II	OZ	UE	2	0	0	2	1
FMT160	Calculus II	Calculus II	Z	YE	4	0	0	4	6
FFZ110	Physics II	Physics II	Z	YE	3	0	0	3	4
FMT172	Discrete Mathematics	Discrete Mathematics	Z	YE	3	0	0	3	5
FMT164	Linear Algebra	Linear Algebra	Z	YE	3	0	0	3	5
MBI104	Object Oriented Programming	Object Oriented Programming	Z	YE	3	0	2	4	8
				TOPLAM	**20**	**0**	**2**	**21**	**30**
				UE Ders Toplam	4	0	0	0	**2**
				Seçmeli Ders Toplam	0	0	0	0	**0**
				Üniversite Seçmeli Ders Toplam	0	0	0	0	**0**

2. SINIF

3. YARIYIL

Kodu	Ders Adı	Course Title	Türü	Eğitim Şekli	T	U	L	K	AKTS
TDZ101	Turkish I	Turkish I	OZ	UE	2	0	0	2	1
FMT173	Differential Equations	Differential Equations	Z	YE	3	0	0	3	5
MBI201	Logic Design	Logic Design	Z	YE	3	0	2	4	7
MBI203	Data Structures and Algorithms	Data Structures and Algorithms	Z	YE	3	0	0	3	6
MBI205	Visual Programming	Visual Programming	Z	YE	3	0	0	3	6
MBI207	Programming Languages	Programming Languages	Z	YE	3	0	0	3	5
				TOPLAM	**17**	**0**	**2**	**18**	**30**
				UE Ders Toplam	2	0	0	0	**1**
				Seçmeli Ders Toplam	0	0	0	0	**0**
				Üniversite Seçmeli Ders Toplam	0	0	0	0	**0**

4. YARIYIL

Kodu	Ders Adı	Course Title	Türü	Eğitim Şekli	T	U	L	K	AKTS
TDZ102	Turkish II	Turkish II	OZ	UE	2	0	0	2	1
FST103	Probability and Statistics	Probability and Statistics	Z	YE	3	0	0	3	4
MBI202	Computer Organization and Design	Computer Organization and Design	Z	YE	3	0	0	3	5
MBI204	Automata Theory	Automata Theory	Z	YE	3	0	0	3	5
MBI206	Web Programming	Web Programming	Z	YE	3	0	0	3	5
MBI208	Electronic Circuits	Electronic Circuits	Z	YE	3	0	0	3	5
MBI210	Signals and Systems	Signals and Systems	Z	YE	3	0	0	3	5
				TOPLAM	**20**	**0**	**0**	**20**	**30**
				UE Ders Toplam	2	0	0	0	**1**
				Seçmeli Ders Toplam	0	0	0	0	**0**
				Üniversite Seçmeli Ders Toplam	0	0	0	0	**0**

3. SINIF

5. YARIYIL

Kodu	Ders Adı	Course Title	Türü	Eğitim Şekli	T	U	L	K	AKTS
MBI301	Operating Systems	Operating Systems	Z	YE	3	0	0	3	5
MBI303	Software Engineering	Software Engineering	Z	YE	3	0	0	3	5
MBI305	Microcontrollers	Microcontrollers	Z	YE	3	0	0	3	6
MBI307	Database Management Systems	Database Management Systems	Z	YE	3	0	0	3	5
	Elective I	Elective I	S	YE	2	0	0	2	3
	Elective II	Elective II	S	YE	2	0	0	2	3
	University Elective I	University Elective I	ÜS	UE	2	0	0	2	3
				TOPLAM	**18**	**0**	**0**	**18**	**30**
				UE Ders Toplam	2	0	0	2	**3**
				Seçmeli Ders Toplam	4	0	0	4	**6**
				Üniversite Seçmeli Ders Toplam	2	0	0	2	**3**

6. YARIYIL

Kodu	Ders Adı	Course Title	Türü	Eğitim Şekli	T	U	L	K	AKTS
MBI302	Design and Analysis of Algorithms	Design and Analysis of Algorithms	Z	YE	3	0	0	3	5
MBI304	Computer Networks	Computer Networks	Z	YE	3	0	0	3	6
MBI306	Introduction to Parallel Programming	Introduction to Parallel Programming	Z	YE	3	0	0	3	5
MBI308	Control Systems	Control Systems	Z	YE	3	0	0	3	5
	Elective III	Elective III	S	YE	2	0	0	2	3
	Elective IV	Elective IV	S	YE	2	0	0	2	3
	University Elective II	University Elective II	ÜS	UE	2	0	0	2	3
				TOPLAM	**18**	**0**	**0**	**18**	**30**
				UE Ders Toplam	2	0	0	2	**3**
				Seçmeli Ders Toplam	4	0	0	4	**6**
				Üniversite Seçmeli Ders Toplam	2	0	0	2	**3**

4. SINIF

7. YARIYIL

Kodu	Ders Adı	Course Title	Türü	Eğitim Şekli	T	U	L	K	AKTS
??????	Occupational Health and Safety I	Occupational Health and Safety I	OZ	UE	2	0	0	2	1
MUH137	Elective Design I	Elective Design I	Z	YE	3	0	0	3	6
MBI401	Mobile Programming	Mobile Programming	Z	YE	3	0	0	3	6
MBI403	Computer Graphics	Computer Graphics	Z	YE	3	0	0	3	5
MUH136	Introduction to Engineering Economy	Introduction to Engineering Economy	Z	YE	2	0	0	2	3
	Elective V	Elective V	S	YE	2	0	0	2	3
	Elective VI	Elective VI	S	UE	2	0	0	2	3
	University Elective III	University Elective III	ÜS	UE	2	0	0	2	3
								0	
				TOPLAM	**19**	**0**	**0**	**19**	**30**
				UE Ders Toplam	6	0	0	6	**7**
				Seçmeli Ders Toplam	4	0	0	4	**6**
				Üniversite Seçmeli Ders Toplam	2	0	0	2	**3**

8. YARIYIL

Kodu	Ders Adı	Course Title	Türü	Eğitim Şekli	T	U	L	K	AKTS
MUH138	Elective Design II	Elective Design II	S	YE	4	0	0	4	6
MUH139	Practical Training	Practical Training	S	YE	0	2	0	1	6
MBI402	Computer Engineering Lab.	Computer Engineering Lab.	Z	YE	0	0	2	1	3
MBI404	Computer Engineering Applications	Computer Engineering Applications	Z	YE	4	0	0	4	6
	Elective VII	Elective VII	S	YE	2	0	0	2	3
	Faculty Technical Elective	Faculty Technical Elective	S	YE	2	0	0	2	3
	University Elective IV	University Elective IV	ÜS	UE	2	0	0	2	3
								0	
MBI444	Vocational Education in Business*	Vocational Education in Business*	S	YE	2	28	0	16	30
				TOPLAM	**14**	**2**	**2**	**16**	**30**
				UE Ders Toplam	2	0	0	2	**3**
				Seçmeli Ders Toplam	8	2	0	9	**18**
				Üniversite Seçmeli Ders Toplam	2	0	0	2	**3**

*İşletmede Mesleki Eğitim alan öğrenciler 8. yarıyılda Staj dahil diğer derslerden muaf olurlar. Aksi durumda Staj ile birlikte diğer dersleri almaları zorunludur.

SEÇMELİ DERSLER

1. YARIYIL

Kodu	Ders Adı	Course Title	Türü	Eğitim Şekli	T	U	L	K	AKTS
MBI151			S	UE	2	0	0	2	3
MBI153			S	UE	2	0	0	2	3
MBI155			S	YE	2	0	0	2	3
MBI157			S	UE	2	0	0	2	3
MBI159			S	UE	2	0	0	2	3
MBI161			S	UE	2	0	0	2	3
MBI163			S	UE	2	0	0	2	3
MBI165			S	UE	2	0	0	2	3
MBI167			S	UE	2	0	0	2	3
MBI169			S	UE	2	0	0	2	3

2. YARIYIL

Kodu	Ders Adı	Course Title	Türü	Eğitim Şekli	T	U	L	K	AKTS
MBI150			S	UE	2	0	0	2	3
MBI152			S	UE	2	0	0	2	3
MBI154			S	YE	1	0	2	2	3
MBI156			S	UE	2	0	0	2	3
MBI158			S	UE	2	0	0	2	3
MBI160			S	UE	2	0	0	2	3
MBI162			S	UE	2	0	0	2	3
MBI164			S	UE	2	0	0	2	3
MBI166			S	UE	2	0	0	2	3
MBI168			S	UE	2	0	0	2	3

3. YARIYIL

Kodu	Ders Adı	Course Title	Türü	Eğitim Şekli	T	U	L	K	AKTS
MBI251			S	UE	2	0	0	2	3
MBI253			S	UE	2	0	0	2	3
MBI255			S	UE	2	0	0	2	3
MBI257			S	UE	2	0	0	2	3
MBI259			S	UE	2	0	0	2	3
MBI261			S	UE	2	0	0	2	3
MBI263			S	UE	2	0	0	2	3
MBI265			S	UE	2	0	0	2	3
MBI267			S	UE	2	0	0	2	3
MBI269			S	UE	2	0	0	2	3

4. YARIYIL

Kodu	Ders Adı	Course Title	Türü	Eğitim Şekli	T	U	L	K	AKTS
MBI250			S	UE	2	0	0	2	3
MBI252			S	UE	2	0	0	2	3
MBI254			S	UE	2	0	0	2	3
MBI256			S	UE	2	0	0	2	3
MBI258			S	UE	2	0	0	2	3
MBI260			S	UE	2	0	0	2	3
MBI262			S	UE	2	0	0	2	3
MBI264			S	UE	2	0	0	2	3
MBI266			S	UE	2	0	0	2	3
MBI268			S	UE	2	0	0	2	3

5. YARIYIL

Kodu	Ders Adı	Course Title	Türü	Eğitim Şekli	T	U	L	K	AKTS
MBI351	Shell Programming	Shell Programming	S	UE	2	0	0	2	3
MBI353	Big Data and Analytics	Big Data and Analytics	S	UE	2	0	0	2	3
MBI355	Edge Computing and Applications	Edge Computing and Applications	S	UE	2	0	0	2	3
MBI357	R Programming	R Programming	S	UE	2	0	0	2	3
MBI359	Statistical Learning	Statistical Learning	S	UE	2	0	0	2	3
MBI361	Introduction to Intelligent Systems	Introduction to Intelligent Systems	S	UE	2	0	0	2	3
MBI363	Wireless Sensor Networks	Wireless Sensor Networks	S	UE	2	0	0	2	3
MBI365			S	UE	2	0	0	2	3
MBI367			S	UE	2	0	0	2	3
MBI369			S	UE	2	0	0	2	3

6. YARIYIL

Kodu	Ders Adı	Course Title	Türü	Eğitim Şekli	T	U	L	K	AKTS
MBI350	Introduction to Machine Learning	Introduction to Machine Learning	S	UE	2	0	0	2	3
MBI352	Fundamentals of Image Processing	Fundamentals of Image Processing	S	UE	2	0	0	2	3
MBI354	Emerging Open-Source Software Technc	Emerging Open-Source Software Technc	S	UE	2	0	0	2	3
MBI356	Software Verification and Validation	Software Verification and Validation	S	UE	2	0	0	2	3
MBI358	Automation System Design	Automation System Design	S	UE	2	0	0	2	3
MBI360	Embedded System Design	Embedded System Design	S	UE	2	0	0	2	3
MBI362			S	UE	2	0	0	2	3
MBI364			S	UE	2	0	0	2	3
MBI366			S	UE	2	0	0	2	3
MBI368			S	UE	2	0	0	2	3

7. YARIYIL

Kodu	Ders Adı	Course Title	Türü	Eğitim Şekli	T	U	L	K	AKTS
MBI451	Graph Theory	Graph Theory	S	UE	2	0	0	2	3
MBI453	Introduction to Artificial Intelligence	Introduction to Artificial Intelligence	S	UE	2	0	0	2	3
MBI455	Introduction to Computer Vision	Introduction to Computer Vision	S	UE	2	0	0	2	3
MBI457	Introduction to Robotics	Introduction to Robotics	S	UE	2	0	0	2	3
MBI459	Introduction to Computer Security	Introduction to Computer Security	S	UE	2	0	0	2	3
MBI461	Introduction to Natural Language Proces	Introduction to Natural Language Proces	S	UE	2	0	0	2	3
MBI463			S	UE	2	0	0	2	3
MBI465			S	UE	2	0	0	2	3
MBI467			S	UE	2	0	0	2	3
MBI469			S	UE	2	0	0	2	3

8. YARIYIL

Kodu	Ders Adı	Course Title	Türü	Eğitim Şekli	T	U	L	K	AKTS
MBI450	Introduction to Mechatronics	Introduction to Mechatronics	S	UE	2	0	0	2	3
MBI452	Software Project Management	Software Project Management	S	UE	2	0	0	2	3
MBI454	Internet of Things and Applications	Internet of Things and Applications	S	UE	2	0	0	2	3
MBI456	Measurement and Instrumentation for O	Measurement and Instrumentation for O	S	UE	2	0	0	2	3
MBI458			S	UE	2	0	0	2	3
MBI460			S	UE	2	0	0	2	3
MBI462			S	UE	2	0	0	2	3
MBI464			S	UE	2	0	0	2	3
MBI466			S	UE	2	0	0	2	3
MBI468			S	UE	2	0	0	2	3

FAKÜLTE SEÇMELİ DERSLERİ

Kodu	Ders Adı	Course Title	Türü	Eğitim Şekli	T	U	L	K	AKTS
MBI001	Mühendislik Proje Yönetimi	Engineering Project Management	S	UE	2	0	0	2	3
MBI002			S	UE		0	0	0	
MBI003			S	UE		0	0	0	
MBI004			S	UE		0	0	0	
MBI005			S	UE		0	0	0	
MBI006			S			0	0	0	
MBI007			S			0	0	0	
MBI008			S			0	0	0	
MBI009			S			0	0	0	
MBI010			S			0	0	0	

ÜNİVERSİTE SEÇMELİ DERSLER

Kodu	Ders Adı	Course Title	Türü	Eğitim Şekli	T	U	L	K	AKTS	Okutulacağı Yarıyıl
MBI01	Dijital Okuryazarlık	Digital Literacy	ÜS	UE	2	0	0	2	3	Güz/Bahar
MBI02			ÜS	UE	2	0	0	2	3	Bahar
MBI03			ÜS	UE	2	0	0	2	3	Güz/Bahar
MBI04			ÜS	UE	2	0	0	2	3	Güz
MBI05			ÜS	UE	2	0	0	2	3	Güz/Bahar
MBI06			ÜS	UE	2	0	0	2	3	Güz
MBI07			ÜS	UE	2	0	0	2	3	Güz
MBI08			ÜS	UE	2	0	0	2	3	Bahar
MBI09			ÜS	UE	2	0	0	2	3	Güz
MBI10			ÜS	UE	2	0	0	2	3	Güz