

T.C.
BALIKESİR ÜNİVERSİTESİ
MÜHENDİSLİK FAKÜLTESİ
MAKİNE MÜHENDİSLİĞİ BÖLÜMÜ (I. ÖĞRETİM)
2023-2024 EĞİTİM-ÖĞRETİM YILI LİSANS DERS PLANI

1. SINIF

1. YARIYIL

KOD	DERSİN ADI	Kategori	T	U	K	AKTS
MAT1101	MATEMATİK I	Z	3	1	3,5	5
FİZ1101	FİZİK I	Z	3	0	3	4
KİM1101	GENEL KİMYA	Z	3	0	3	4
TRS1102	TEKNİK RESİM I	Z	2	2	3	5
MKİ1121	MAKİNE MÜHENDİSLİĞİNE GİRİŞ	Z	2	0	2	3
MTB1122	LİNEER CEBİR	Z	2	0	2	3
	Toplam		15	3	16,5	23
AIT1101	ATATÜRK İLKELERİ ve İNKILAP TARİHİ I	Z	2	0	2	2
TDİ1101	TÜRK DİLİ I	Z	2	0	2	2
YDİ1102	YABANCI DİL I	Z	2	0	2	2
	Toplam		21	3	22,5	30

2. YARIYIL

KOD	DERSİN ADI	Kategori	T	U	K	AKTS
MAT1203	MATEMATİK II	Z	3	1	3,5	5
FİZ1201	FİZİK II	Z	3	0	3	4
MMM1230	STATİK	Z	3	0	3	4
BİL1202	ALGORİTMA ve PROGRAMLAMAYA GİRİŞ	Z	2	1	2,5	3
TRS1201	TEKNİK RESİM II	Z	2	2	3	5
MKİ1222	ÖLÇME TEKNİĞİ	Z	2	1	2,5	3
	Toplam		17	5	19,5	24
AIT1201	ATATÜRK İLKELERİ ve İNKILAP TARİHİ II	Z	2	0	2	2
TDİ1201	TÜRK DİLİ II	Z	2	0	2	2
YDİ1202	YABANCI DİL II	Z	2	0	2	2
	Toplam		23	5	25,5	30

2. SINIF

3.YARIYIL

KOD	DERSİN ADI	Kategori	T	U	K	AKTS
MTB2132	YÜKSEK MATEMATİK	Z	3	0	3	4
MKİ 2131	MALZEME I	Z	3	0	3	4
MMM2131	MUKAVEMET I	Z	3	0	3	5
MMM2132	DİNAMİK	Z	3	0	3	5
MTR2141	TERMODİNAMİK I	Z	3	0	3	5
MTB2120	SAYISAL ANALİZ	Z	3	0	3	4
	TEKNİK SEÇ. DERS. I (1 ders seçilir)	S	2	0	2	3
	Toplam		20	0	20	30

4. YARIYIL

KOD	DERSİN ADI	Kategori	T	U	K	AKTS
MTB2242	MÜHENDİSLİK MATEMATİĞİ	Z	3	0	3	4
MKİ2231	MALZEME II	Z	2	0	2	3
MMM2231	MUKAVEMET II	Z	3	0	3	4
MTR 2230	TERMODİNAMİK II	Z	3	0	3	4
MAK2231	AKIŞKANLAR MEKANİĞİ I	Z	3	0	3	4
MAK2220	MEKANİZMA TEKNİĞİ	Z	2	0	2	3
MTB 2230	BİLG. DESTEKLİ MOD. ve ÇİZİM	Z	2	0	2	3
STJ1101	YAZ STAJI	Z	0	0	0	2
	TEKNİK SEÇ. DERS. II (1ders seçilir)	S	2	0	2	3
	Toplam		20	0	20	30

3. SINIF

5. YARIYIL

KOD	DERSİN ADI	Kategori	T	U	K	AKTS
MTR3120	AKIŞKANLAR MEKANİĞİ II	Z	2	0	2	4
MKİ3148	MAKİNE ELEMANLARI I	Z	3	0	3	5
MMD3140	OTOMATİK KONTROL	Z	3	0	3	4
MKİ3125	KAYNAK TEKNİĞİ	Z	2	0	2	3
MKİ3146	TALAŞLI İMALAT	Z	3	0	3	5
MMM3120	SONLU ELEMANLAR ANALİZİNE GİRİŞ	Z	2	0	2	3
	TEKNİK SEÇ.DERS. III (2 ders seçilir)	S	2	0	4	6
	Toplam		19	0	19	30

6. YARIYIL

KOD	DERSİN ADI	Kategori	T	U	K	AKTS
MTR3230	ISI TRANSFERİ	Z	3	0	3	4
MKİ3241	MAKİNE ELEMANLARI II	Z	3	0	3	5
MEN3230	MOTORLAR I	Z	3	0	3	4
MMD3241	MAKİNE DİNAMİĞİ	Z	3	0	3	4
MKİ3223	METALLERE PLASTİK ŞEKİL VERME	Z	2	0	2	3
MUY3205	MAKİNE LABORATUVARI I	Z	0	2	1	2
MPR3205	MAKİNE TASARIMI I	Z	2	0	2	3
	TEKNİK SEÇ. DERS. IV (1 ders seçilir)	S	2	0	2	3
STJ1201	YAZ STAJI	Z	0	0	0	2
	Toplam		18	2	19	30

4. SINIF

7. YARIYIL

KOD	DERSİN ADI	Kategori	T	U	K	AKTS
MAK4122	ELEKTROTEKNİK	Z	2	0	2	3
ISG4101	İŞ SAĞLIĞI VE GÜVENLİĞİ I	Z	2	0	2	3
MUY4105	MAKİNE LABORATUVARI II	Z	0	2	1	2
MAK4124	MAKİNE TASARIMI II	Z	2	0	2	4
	TEKNİK SEÇ.DERS V (3 ders seçilir)	S	9	0	9	12
	SOSYAL SEÇMELİ DERS (1 ders seçilir)	S	2	0	2	3
	Üniversite Seçmeli Ders I (USD I) (1 ders seçilir)	S	2	0	2	3
	Toplam		19	2	20	30

8. YARIYIL

KOD	DERSİN ADI	Kategori	T	U	K	AKTS
ISG4201	İŞ SAĞLIĞI VE GÜVENLİĞİ II (ONLINE)	Z	2	0	2	3
	MAK4219 - BİTİRME ÇALIŞMASI	Z	0	2	1	3
	TEKNİK SEÇ.DERS VI (4 ders seçilir)	S	12	0	12	16
	SOSYAL SEÇMELİ DERS II (1 ders seçilir)	S	2	0	2	3
	Üniversite Seçmeli Ders II (USD II)(1 ders seçilir)	S	2	0	2	3
	İŞLETMEDE MESLEKİ EĞİTİM	S	5	24	17	25
STJ1301	YAZ STAJI	Z	0	0	0	2
	Toplam		18	2	19	30

Z: Zorunlu S:Seçmeli T:Teorik U:Uygulama K:Kredi
MAK:Makine Mühendisliği MTB: Temel Bilimler MMD:Makine Teo. ve Din. MMM: Mekanik MKİ: Konst. ve İmalat
MTR: Termodinamik MEN:Enerji MUY: Laboratuvar MPR:Proje MÇB: Bitirme Çalışması

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MÜHENDİSLİK FAKÜLTESİ
MAKİNE MÜHENDİSLİĞİ BÖLÜMÜ (II. ÖĞRETİM)
2023-2024 EĞİTİM-ÖĞRETİM YILI LİSANS DERS PLANI

1. SINIF

1. YARIYIL							2. YARIYIL						
KOD	DERSİN ADI	Kategori	T	U	K	AKTS	KOD	DERSİN ADI	Kategori	T	U	K	AKTS
MAT1101	MATEMATİK I	Z	3	1	3,5	5	MAT1203	MATEMATİK II	Z	3	1	3,5	5
FIZ1101	FİZİK I	Z	3	0	3	4	FIZ1201	FİZİK II	Z	3	0	3	4
KIM1101	GENEL KİMYA	Z	3	0	3	4	MMM1230	STATİK	Z	3	0	3	4
TRS1102	TEKNİK RESİM I	Z	2	2	3	5	BIL1202	ALGORİTMA ve PROGRAMLAMAYA GİRİŞ	Z	2	1	2,5	3
MKI1121	MAKİNE MÜHENDİSLİĞİNE GİRİŞ	Z	2	0	2	3	TRS1201	TEKNİK RESİM II	Z	2	2	3	5
MTB1122	LİNEER CEBİR	Z	2	0	2	3	MKI1222	ÖLÇME TEKNİĞİ	Z	2	1	2,5	3
	Toplam		15	3	16,5	23		Toplam		17	5	19,5	24
AIT1101	ATATÜRK İLKELERİ ve İNKILAP TARİHİ I	Z	2	0	2	2	AIT1201	ATATÜRK İLKELERİ ve İNKILAP TARİHİ II	Z	2	0	2	2
TDI1101	TÜRK DİLİ I	Z	2	0	2	2	TDI1201	TÜRK DİLİ II	Z	2	0	2	2
YDI1102	YABANCI DİL I	Z	2	0	2	2	YDI1202	YABANCI DİL II	Z	2	0	2	2
	Toplam		21	3	22,5	30		Toplam		23	5	25,5	30

2. SINIF

3.YARIYIL							4. YARIYIL						
KOD	DERSİN ADI	Kategori	T	U	K	AKTS	KOD	DERSİN ADI	Kategori	T	U	K	AKTS
MTB2132	YÜKSEK MATEMATİK	Z	3	0	3	4	MTB2242	MÜHENDİSLİK MATEMATİĞİ	Z	3	0	3	4
MKI 2131	MALZEME I	Z	3	0	3	4	MKI2231	MALZEME II	Z	2	0	2	3
MMM2131	MUKAVEMET I	Z	3	0	3	5	MMM2231	MUKAVEMET II	Z	3	0	3	4
MMM2132	DİNAMİK	Z	3	0	3	5	MTR 2230	TERMODİNAMİK II	Z	3	0	3	4
MTR2141	TERMODİNAMİK I	Z	3	0	3	5	MAK2231	AKIŞKANLAR MEKANİĞİ I	Z	3	0	3	4
MTB2120	SAYISAL ANALİZ	Z	3	0	3	4	MAK2220	MEKANİZMA TEKNİĞİ	Z	2	0	2	3
	TEKNİK SEÇ. DERS. I (1 ders seçilir)	S	2	0	2	3	MTB 2230	BİLG. DESTEKLİ MOD. ve ÇİZİM	Z	2	0	2	3
							STJ1101	YAZ STAJI	Z	0	0	0	2
								TEKNİK SEÇ. DERS. II (1ders seçilir)	S	2	0	2	3
	Toplam		20	0	20	30		Toplam		20	0	20	30

3. SINIF

5. YARIYIL							6. YARIYIL						
KOD	DERSİN ADI	Kategori	T	U	K	AKTS	KOD	DERSİN ADI	Kategori	T	U	K	AKTS
MTR3120	AKIŞKANLAR MEKANİĞİ II	Z	2	0	2	4	MTR3230	ISI TRANSFERİ	Z	3	0	3	4
MKI3148	MAKİNE ELEMANLARI I	Z	3	0	3	5	MKI3241	MAKİNE ELEMANLARI II	Z	3	0	3	5
MMD3140	OTOMATİK KONTROL	Z	3	0	3	4	MEN3230	MOTORLAR I	Z	3	0	3	4
MKI3125	KAYNAK TEKNİĞİ	Z	2	0	2	3	MMD3241	MAKİNE DİNAMİĞİ	Z	3	0	3	4
MKI3146	TALAŞLI İMALAT	Z	3	0	3	5	MKI3223	METALLERE PLASTİK ŞEKİL VERME	Z	2	0	2	3
MMM3120	SONLU ELEMANLAR ANALİZİNE GİRİŞ	Z	2	0	2	3	MUY3205	MAKİNE LABORATUVARI I	Z	0	2	1	2
	TEKNİK SEÇ.DERS. III (2 ders seçilir)	S	2	0	4	6	MPR3205	MAKİNE TASARIMI I	Z	2	0	2	3
								TEKNİK SEÇ. DERS. IV (1 ders seçilir)	S	2	0	2	3
							STJ1201	YAZ STAJI	Z	0	0	0	2
	Toplam		19	0	19	30		Toplam		18	2	19	30

4. SINIF

7. YARIYIL							8. YARIYIL						
KOD	DERSİN ADI	Kategori	T	U	K	AKTS	KOD	DERSİN ADI	Kategori	T	U	K	AKTS
MAK4122	ELEKTROTEKNİK	Z	2	0	2	3	ISG4201	İŞ SAĞLIĞI VE GÜVENLİĞİ II (ONLINE)	Z	2	0	2	3
ISG4101	İŞ SAĞLIĞI VE GÜVENLİĞİ I	Z	2	0	2	3	GRUP 1	MAK4219 - BİTİRME ÇALIŞMASI	Z	0	2	1	3
MUY4105	MAKİNE LABORATUVARI II	Z	0	2	1	2		TEKNİK SEÇ.DERS VI (4 ders seçilir)	S	12	0	12	16
MAK4124	MAKİNE TASARIMI II	Z	2	0	2	4		SOSYAL SEÇMELİ DERS II (1 ders seçilir)	S	2	0	2	3
	TEKNİK SEÇ.DERS V (3 ders seçilir)	S	9	0	9	12		Üniversite Seçmeli Ders II (USD II)(1 ders seçilir)	S	2	0	2	3
	SOSYAL SEÇMELİ DERS (1 ders seçilir)	S	2	0	2	3	GRUP 2 İME4202	İŞLETMEDE MESLEKİ EĞİTİM	S	5	24	17	25
	Üniversite Seçmeli Ders I (USD I) (1 ders seçilir)	S	2	0	2	3	STJ1301	YAZ STAJI	Z	0	0	0	2
	Toplam		19	2	20	30		Toplam		18	2	19	30

Z: Zorunlu S:Seçmeli T:Teorik U:Uygulama K:Kredi
MAK:Makine Mühendisliği MTB: Temel Bilimler MMD:Makine Teo. ve Din. MMM: Mekanik MKI: Konst. ve İmalat
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2. SINIF SEÇMELİ DERSLER

KOD	3. yarıyıl TEKNİK SEÇMELİ DERSLER(1 ders seçilir)	Kategori	T	U	K	AKTS	KOD	4. yarıyıl TEKNİKSEÇMELİ DERSLER(1 ders seçilir)	Kategori	T	U	K	AKTS
MMT2101	TEKNİK YABANCI DİL I	S	2	0	2	3	MMT2201	TEKNİK YABANCI DİL II	S	2	0	2	3
MMT2102	BİLG.DEST.MÜH.UYGULAMALARI (MATLAB)	S	2	0	2	3	MMT2202	MÜHENDİSLİK EKONOMİSİ	S	2	0	2	3
MMT2104	UYGULAMALI İSTATİSTİK	S	2	0	2	3	MMT2233	TASARIMIN TEMEL İLKELERİ	S	2	0	2	3
MTR2104	ÇEVRE TEKNİĞİ	S	2	0	2	3	MKI2204	KOROZYON TEKNİĞİ	S	2	0	2	3
							MMT2203	YENİLENEBİLİR ENERJİ KAYNAKLARI	S	2	0	2	3

3. SINIF SEÇMELİ DERSLER

KOD	5. yarıyıl TEKNİK SEÇMELİ DERSLER(2 ders seçilir)	Kategori	T	U	K	AKTS	KOD	6. yarıyıl TEKNİK SEÇMELİ DERSLER(1 ders seçilir)	Kategori	T	U	K	AKTS
MTR3121	SAĞLIK TESİSAT	S	2	0	2	3	MAK3225	DEMİR DIŞI METALLER	S	2	0	2	3
MKI3121	KONSTRÜKSİYON	S	2	0	2	3	MKI3221	ISIL İŞLEMLER	S	2	0	2	3
MKI3124	PLASTİK MALZEMELER	S	2	0	2	3	MKI3224	KALIP TASARIMI	S	2	0	2	3
MKI3126	DÖKÜM TEKNİĞİ	S	2	0	2	3	MMM3222	KOMPOZİT MALZEMELER ve MEKANİĞİ	S	2	0	2	3
MKI3127	EKLEMELİ İMALAT TEKNOLOJİLERİ(3D YAZICILAR)	S	2	0	2	3	MMM3226	KIRILMA MEKANİĞİNE GİRİŞ	S	2	0	2	3
MMM3122	BİLİMSSEL ÇALIŞMA TEKNİKLERİ VE ETİK	S	2	0	2	3							
MMM3121	ELASTİSİTE TEORİSİNE GİRİŞ	S	2	0	2	3							

4. SINIF SEÇMELİ DERSLER

KOD	7. yarıyıl TEKNİK SEÇMELİ DERSLER(4 ders seçilir)	Kategori	T	U	K	AKTS	KOD	8. yarıyıl TEKNİK SEÇMELİ DERSLER (5 ders seçilir)	Kategori	T	U	K	AKTS
MAK4101	MOTORLAR II	S	3	0	3	4	MAK4201	UYGULAMALI AKIŞKANLAR MEKANİĞİ ANALİZLERİ	S	3	0	3	4
MAK4103	ISITMA TEKNİĞİ	S	3	0	3	4	MAK4202	İKLİMLENDİRME SİSTEMLERİ	S	3	0	3	4
MAK4104	BUHAR KAZANLARI ve TÜRBİNLERİ	S	3	0	3	4	MAK4203	ENERJİ YÖNETİMİ	S	3	0	3	4
MAK4105	RÜZGAR ENERJİSİ SANTRALLERİ	S	3	0	3	4	MAK4204	ENERJİ SANTRALLERİ	S	3	0	3	4
MAK4106	SOĞUTMA MÜHENDİSLİĞİ	S	3	0	3	4	MAK4206	GAZ TESİSATI	S	3	0	3	4
MAK4107	ISI EŞANJÖRLERİ	S	3	0	3	4	MAK4207	GÜNEŞ ENERJİSİ SİSTEMLERİ	S	3	0	3	4
MAK4108	BİLGİSAYAR DESTEKLİ ÜRETİM	S	3	0	3	4	MAK4208	AKIM MAKİNALARI	S	3	0	3	4
MAK4109	HİDROLİK VE PNOMATİK	S	3	0	3	4	MAK4209	KALİTE KONTROL	S	3	0	3	4
MAK4110	ÜRETİM PLANLAMA	S	3	0	3	4	MAK4210	MALZEME SEÇİMİ	S	3	0	3	4
MAK4111	MODELLEME VE ANALİZ	S	3	0	3	4	MAK4211	KAYNAK METALURJİSİ	S	3	0	3	4
MAK4112	PROGRAMLANABİLİR MANTIKSAL KONTRÖLÖRLER (PLC)	S	3	0	3	4	MAK4212	ERGONOMİ	S	3	0	3	4
MAK4113	FABRİKA ORGANİZASYONU	S	3	0	3	4	MAK4213	TAKİM TEZGAH KONSTRÜKSİYONU	S	3	0	3	4
MAK4114	TRANSPORT TEKNİĞİ	S	3	0	3	4	MAK4214	TAŞIT KONSTRÜKSİYONU	S	3	0	3	4
MAK4115	MEKANİK TİTREŞİMLER	S	3	0	3	4	MAK4215	TOZ METALURJİSİ	S	3	0	3	4
MAK4116	MOTORLU TAŞITLAR	S	3	0	3	4	MAK4216	MÜHENDİSLİKTE ISI DEĞİŞTİRİCİ SEÇİMİ	S	3	0	3	4
MAK4117	YAKITLAR ve YANMA	S	3	0	3	4	MTH42--	SEKTÖR KAMPÜSTE I	S	3	0	3	4
MAK4118	PLASTİK ENJEKSİYON AKIŞ ANALİZLERİ	S	3	0	3	4	MTH42--	SEKTÖR KAMPÜSTE II	S	3	0	3	4
MAK4119	ROBOTİĞE GİRİŞ	S	3	0	3	4							
MAK4120	GAZ TÜRBİNLERİ	S	3	0	3	4							
MAK4121	BİLGİSAYAR DESTEKLİ MÜHENDİSLİK ANALİZİ	S	3	0	3	4							
MTH41--	SEKTÖR KAMPÜSTE I	S	3	0	3	4							
MTH41--	SEKTÖR KAMPÜSTE II	S	3	0	3	4							

4.SINIF SOSYAL SEÇMELİ DERSLER

KOD	4. sınıf 1. yarıyıl SOSYAL SEÇMELİ DERSLER	Kategori	T	U	K	AKTS	KOD	4. sınıf 2. yarıyıl SOSYAL SEÇMELİ DERSLER	Kategori	T	U	K	AKTS
MMS4102	GİRİŞİMCİLİK I	S	2	0	2	3	MMS4202	GİRİŞİMCİLİK II	S	2	0	2	3

4.SINIF ÜNİVERSİTE SEÇMELİ DERSLER

KOD	4. sınıf 1. yarıyıl USD I SEÇMELİ DERSLER	Kategori	T	U	K	AKTS	KOD	4. sınıf 2. yarıyıl USD II SEÇMELİ DERSLER	Kategori	T	U	K	AKTS

Z: Zorunlu S:Seçmeli T:Teorik U:Uygulama K:Kredi
MAK: Makine Mühendisliği MTB: Temel Bilimler MMD:Makine Teo. ve Din. MMM: Mekanik MKI: Konst. ve İmalat
MTR: Termodinamik MEN:Enerji MUY: Laboratuar MPR:Proje MÇB: Bitirme Çalışması

T.C.
BALIKESİR ÜNİVERSİTESİ
MÜHENDİSLİK FAKÜLTESİ
MAKİNE MÜHENDİSLİĞİ BÖLÜMÜ (II. ÖĞRETİM)
2023-2024 EĞİTİM-ÖĞRETİM YILI LİSANS DERS PLANI

2. SINIF SEÇMELİ DERSLER

KOD	3. yarıyıl TEKNİK SEÇMELİ DERSLER(1 ders seçilir)	Kategori	T	U	K	AKTS	KOD	4. yarıyıl TEKNİKSEÇMELİ DERSLER(1 ders seçilir)	Kategori	T	U	K	AKTS
MMT2101	TEKNİK YABANCI DİL I	S	2	0	2	3	MMT2201	TEKNİK YABANCI DİL II	S	2	0	2	3
MMT2102	BİLG.DEST.MÜH.UYGULAMALARI (MATLAB)	S	2	0	2	3	MMT2202	MÜHENDİSLİK EKONOMİSİ	S	2	0	2	3
MMT2104	UYGULAMALI İSTATİSTİK	S	2	0	2	3	MMT2233	TASARIMIN TEMEL İLKELERİ	S	2	0	2	3
MTR2104	ÇEVRE TEKNİĞİ	S	2	0	2	3	MKI2204	KOROZYON TEKNİĞİ	S	2	0	2	3
							MMT2203	YENİLENEBİLİR ENERJİ KAYNAKLARI	S	2	0	2	3

3. SINIF SEÇMELİ DERSLER

KOD	5. yarıyıl TEKNİK SEÇMELİ DERSLER(2 ders seçilir)	Kategori	T	U	K	AKTS	KOD	6. yarıyıl TEKNİK SEÇMELİ DERSLER(1 ders seçilir)	Kategori	T	U	K	AKTS
MTR3121	SAĞLIK TESİSAT	S	2	0	2	3	MAK3225	DEMİR DIŞI METALLER	S	2	0	2	3
MKI3121	KONSTRÜKSİYON	S	2	0	2	3	MKI3221	ISIL İŞLEMLER	S	2	0	2	3
MKI3124	PLASTİK MALZEMELER	S	2	0	2	3	MKI3224	KALIP TASARIMI	S	2	0	2	3
MKI3126	DÖKÜM TEKNİĞİ	S	2	0	2	3	MMM3222	KOMPOZİT MALZEMELER ve MEKANİĞİ	S	2	0	2	3
MKI3127	EKLEMELİ İMALAT TEKNOLOJİLERİ(3D YAZICILAR)	S	2	0	2	3	MMM3226	KIRILMA MEKANİĞİNE GİRİŞ	S	2	0	2	3
MMM3122	BİLİMSSEL ÇALIŞMA TEKNİKLERİ VE ETİK	S	2	0	2	3							
MMM3121	ELASTİSİTE TEORİSİNE GİRİŞ	S	2	0	2	3							

4. SINIF SEÇMELİ DERSLER

KOD	7. yarıyıl TEKNİK SEÇMELİ DERSLER(4 ders seçilir)	Kategori	T	U	K	AKTS	KOD	8. yarıyıl TEKNİK SEÇMELİ DERSLER (5 ders seçilir)	Kategori	T	U	K	AKTS
MAK4101	MOTORLAR II	S	3	0	3	4	MAK4201	UYGULAMALI AKIŞKANLAR MEKANİĞİ ANALİZLERİ	S	3	0	3	4
MAK4103	ISITMA TEKNİĞİ	S	3	0	3	4	MAK4202	İKLİMLENDİRME SİSTEMLERİ	S	3	0	3	4
MAK4104	BUHAR KAZANLARI ve TÜRBİNLERİ	S	3	0	3	4	MAK4203	ENERJİ YÖNETİMİ	S	3	0	3	4
MAK4105	RÜZGAR ENERJİSİ SANTRALLERİ	S	3	0	3	4	MAK4204	ENERJİ SANTRALLERİ	S	3	0	3	4
MAK4106	SOĞUTMA MÜHENDİSLİĞİ	S	3	0	3	4	MAK4206	GAZ TESİSATI	S	3	0	3	4
MAK4107	ISI EŞANJÖRLERİ	S	3	0	3	4	MAK4207	GÜNEŞ ENERJİSİ SİSTEMLERİ	S	3	0	3	4
MAK4108	BİLGİSAYAR DESTEKLİ ÜRETİM	S	3	0	3	4	MAK4208	AKIM MAKİNALARI	S	3	0	3	4
MAK4109	HİDROLİK VE PNOMATİK	S	3	0	3	4	MAK4209	KALİTE KONTROL	S	3	0	3	4
MAK4110	ÜRETİM PLANLAMA	S	3	0	3	4	MAK4210	MALZEME SEÇİMİ	S	3	0	3	4
MAK4111	MODELLEME VE ANALİZ	S	3	0	3	4	MAK4211	KAYNAK METALURJİSİ	S	3	0	3	4
MAK4112	PROGRAMLANABİLİR MANTIKSAL KONTRÖLÖRLER (PLC)	S	3	0	3	4	MAK4212	ERGONOMİ	S	3	0	3	4
MAK4113	FABRİKA ORGANİZASYONU	S	3	0	3	4	MAK4213	TAKİM TEZGAH KONSTRÜKSİYONU	S	3	0	3	4
MAK4114	TRANSPORT TEKNİĞİ	S	3	0	3	4	MAK4214	TAŞIT KONSTRÜKSİYONU	S	3	0	3	4
MAK4115	MEKANİK TİTREŞİMLER	S	3	0	3	4	MAK4215	TOZ METALURJİSİ	S	3	0	3	4
MAK4116	MOTORLU TAŞITLAR	S	3	0	3	4	MAK4216	MÜHENDİSLİKTE ISI DEĞİŞTİRİCİ SEÇİMİ	S	3	0	3	4
MAK4117	YAKITLAR ve YANMA	S	3	0	3	4	MTH42--	SEKTÖR KAMPÜSTE I	S	3	0	3	4
MAK4118	PLASTİK ENJEKSİYON AKIŞ ANALİZLERİ	S	3	0	3	4	MTH42--	SEKTÖR KAMPÜSTE II	S	3	0	3	4
MAK4119	ROBOTİĞE GİRİŞ	S	3	0	3	4							
MAK4120	GAZ TÜRBİNLERİ	S	3	0	3	4							
MAK4121	BİLGİSAYAR DESTEKLİ MÜHENDİSLİK ANALİZİ	S	3	0	3	4							
MTH41--	SEKTÖR KAMPÜSTE I	S	3	0	3	4							
MTH41--	SEKTÖR KAMPÜSTE II	S	3	0	3	4							

4.SINIF SOSYAL SEÇMELİ DERSLER

KOD	4. sınıf 1. yarıyıl SOSYAL SEÇMELİ DERSLER	Kategori	T	U	K	AKTS	KOD	4. sınıf 2. yarıyıl SOSYAL SEÇMELİ DERSLER	Kategori	T	U	K	AKTS
MMS4102	GİRİŞİMCİLİK I	S	2	0	2	3	MMS4202	GİRİŞİMCİLİK II	S	2	0	2	3

4.SINIF ÜNİVERSİTE SEÇMELİ DERSLER

KOD	4. sınıf 1. yarıyıl USD I SEÇMELİ DERSLER	Kategori	T	U	K	AKTS	KOD	4. sınıf 2. yarıyıl USD II SEÇMELİ DERSLER	Kategori	T	U	K	AKTS

Z: Zorunlu S:Seçmeli T:Teorik U:Uygulama K:Kredi
MAK: Makine Mühendisliği MTB: Temel Bilimler MMD:Makine Teo. ve Din. MMM: Mekanik MKI: Konst. ve İmalat
MTR: Termodinamik MEN:Enerji MUY: Laboratuar MPR:Proje MÇB: Bitirme Çalışması

REPUBLIC OF TÜRKİYE BALIKESİR UNIVERSITY FACULTY OF ENGINEERING DEPARTMENT OF MECHANICAL ENGINEERING (REGULAR EDUCATION) 2023-2024 UNDERGRADUATE CURRICULUM														
1st YEAR														
1st SEMESTER							2nd SEMESTER							
CODE	COURSE NAME	Category	T	L	C	ECTS	CODE	COURSE NAME	Category	T	L	C	ECTS	
MAT1101	Mathematics I	C	3	1	3,5	5	MAT1203	Mathematics II	C	3	1	3,5	5	
FİZ1101	Physics I	C	3	0	3	4	FİZ1201	Physics II	C	3	0	3	4	
KİM1101	General Chemistry	C	3	0	3	4	MAK1230	Statics	C	3	0	3	4	
TRS1102	Tech. Drawing I	C	2	2	3	5	BİL1202	Introduction to Algorithms and Programming	C	2	1	2,5	3	
MKİ1121	Introduction to Mechanical Engineering	C	2	0	2	3	MAK1201	Tech. Drawing II	C	2	2	3	5	
MTB1122	Lineer Algebra	C	2	0	2	3	MKİ1222	Measurement Technique	C	2	1	2,5	3	
							KRY1201	Career Planning	C	1	0	1	2	
	Total		15	3	16,5	23	Total			17	5	19,5	24	
AIT1101	Atatürk Principles and Turkish Revolution History I	C	2	0	2	2	AIT1201	Atatürk Principles and Turkish Revolution History II	C	2	0	2	2	
TDİ1101	Turkish Language I	C	2	0	2	2	TDİ1201	Turkish Language II	C	2	0	2	2	
YDİ1102	Foreign Language I	C	2	0	2	2	YDİ1202	Foreign Language II	C	2	0	2	2	
	Grand Total		21	5	22,5	30		Grand Total		23	5	25,5	30	
2nd YEAR														
3rd SEMESTER							4th SEMESTER							
CODE	COURSE NAME	Category	T	L	C	ECTS	CODE	COURSE NAME	Category	T	L	C	ECTS	
MTB2132	Advanced Mathematics	C	3	0	3	4	MTB 2242	Engineering Mathematics	C	3	0	3	4	
MKİ 2131	Materials Science I	C	3	0	3	4	MKİ 2231	Materials Science II	C	2	0	2	3	
MMM2131	Strength of the Materials I	C	3	0	3	5	MMM2231	Strength of the Materials II	C	3	0	3	4	
MMM2132	Dynamics	C	3	0	3	5	MTR 2230	Thermodynamics II	C	3	0	3	4	
MTR 2141	Thermodynamics I	C	3	0	3	5	MAK2231	Fluid Mechanics I	C	3	0	3	4	
MTB2120	Numerical Analysis	C	3	0	3	4	MAK2220	Mechanism Tecnique	C	2	0	2	3	
	Technical Selective Courses I (1 course selected)	E	2	0	2	3	MTB2230	Computer Aided Modeling and Drafting	C	2	0	2	3	
							STJ1101	Summer Internship	C	0	0	0	2	
								Technical Selective Courses II (1 course selected)	E	2	0	2	3	
	Total		20	0	20	30		Total		20	0	20	30	
3rd YEAR														
5th SEMESTER							6th SEMESTER							
CODE	COURSE NAME	Category	T	L	C	ECTS	CODE	COURSE NAME	Category	T	L	C	ECTS	
MTR3120	Fluid Mechanics II	C	2	0	2	4	MTR3230	Heat Transfer	C	3	0	3	4	
MKİ3148	Machine Elements I	C	3	0	3	5	MKİ3241	Machine Elements II	C	3	0	3	5	
MMD3140	Automatic Control	C	3	0	3	4	MEN3230	Internal Combustion Engines I	C	3	0	3	4	
MKİ3125	Welding Technology	C	2	0	2	3	MMD3241	Machine Dynamic	C	3	0	3	4	
MKİ3146	Machining	C	3	0	3	5	MKİ3223	Plastic deformation processing of Metals	C	2	0	2	3	
MMM3120	Introduction to Finite Element Method	C	2	0	2	3	MUY3205	Lab Machine I	C	0	2	1	2	
	Course Selected I (2 courses selected)	E	4	0	4	6	MPR3205	Machine Design I	C	2	0	2	3	
								Course Selected II (1 course selected)	E	2	0	2	3	
							STJ1201	Summer Internship	C	0	0	0	2	
	Total		19	0	19	30		Total		18	2	19	30	
4th YEAR														
7th SEMESTER							8th SEMESTER							
CODE	COURSE NAME	Category	T	L	C	ECTS	CODE	COURSE NAME	Category	T	L	C	ECTS	
MAK4122	Electrotechnics	C	2	0	2	3	ISG4201	Occupational Healt and Safety II (online)	C	2	0	2	3	
MUY4105	Lab Machine II	C	0	2	1	2	GROUP 1	MAK4219 - Senior Project	C	0	2	1	3	
MAK4124	Machine Design II	C	2	0	2	4		Course Selected IV (4 Course selected)	E	12	0	12	16	
ISG4101	Occupational Healt and Safety I	C	2	0	2	3		Social Course Selected I (1 Course selected)	E	2	0	2	3	

REPUBLIC OF TÜRKİYE BALIKESİR UNIVERSITY FACULTY OF ENGINEERING DEPARTMENT OF MECHANICAL ENGINEERING (2nd EDUCATION) 2023-2024 UNDERGRADUATE CURRICULUM

1st YEAR

1st SEMESTER							2nd SEMESTER						
CODE	COURSE NAME	Category	T	L	C	ECTS	CODE	COURSE NAME	Category	T	L	C	ECTS
MAT1101	Mathematics I	C	3	1	3.5	5	MAT1203	Mathematics II	C	3	1	3.5	5
FIZ1101	Physics I	C	3	0	3	4	FIZ1201	Physics II	C	3	0	3	4
KIM1101	General Chemistry	C	3	0	3	4	MAK1230	Statics	C	3	0	3	4
TRS1102	Techn. Drawing I	C	2	2	3	5	BIL1202	Introduction to Algorithms and Programming	C	2	1	2.5	3
MKI1121	Introduction to Mechanical Engineering	C	2	0	2	3	MAK1201	Techn. Drawing II	C	2	2	3	5
MTB1122	Lineer Algebra	C	2	0	2	3	MKI1222	Measurement Tecnique	C	2	1	2.5	3
							KRY1201	Career Planning	C	1	0	1	2
	Total		15	3	16.5	23	Total			17	5	19.5	24
AIT1101	Atatürk Principles and Turkish Revolition History I	C	2	0	2	2	AIT1201	Atatürk Principles and Turkish Revolition History II	C	2	0	2	2
TDI1101	Turkish Language I	C	2	0	2	2	TDI1201	Turkish Language II	C	2	0	2	2
YDI1102	Foreign Language I	C	2	0	2	2	YDI1202	Foreign Language II	C	2	0	2	2
	Grand Total		21	5	22.5	30	Grand Total			23	5	25.5	30

2nd YEAR

3rd SEMESTER							4th SEMESTER						
CODE	COURSE NAME	Category	T	L	C	ECTS	CODE	COURSE NAME	Category	T	L	C	ECTS
MTB2132	Advanced Mathematics	C	3	0	3	4	MTB 2242	Engineering Mathematics	C	3	0	3	4
MKI 2131	Materials Science I	C	3	0	3	4	MKI 2231	Materials Science II	C	2	0	2	3
MMM2131	Strength of the Materials I	C	3	0	3	5	MMM2231	Strength of the Materials II	C	3	0	3	4
MMM2132	Dynamics	C	3	0	3	5	MTR 2230	Thermodynamics II	C	3	0	3	4
MTR 2141	Thermodynamics I	C	3	0	3	5	MAK2231	Fluid Mechanics I	C	3	0	3	4
MTB2120	Numerical Analysis	C	3	0	3	4	MAK2220	Mechanism Technique	C	2	0	2	3
	Technical Selective Courses I (1 course selected)	E	2	0	2	3	MTB2230	Computer Aided Modeling and Drafting	C	2	0	2	3
							STJ1101	Summer Internship	C	0	0	0	2
								Technical Selective Courses II (1 course selected)	E	2	0	2	3
	Total		20	0	20	30		Total		20	0	20	30

3rd YEAR

5th SEMESTER							6th SEMESTER						
CODE	COURSE NAME	Category	T	L	C	ECTS	CODE	COURSE NAME	Category	T	L	C	ECTS
MTR3120	Fluid Mechanics II	C	2	0	2	4	MTR3230	Heat Transfer	C	3	0	3	4
MKI3148	Machine Elements I	C	3	0	3	5	MKI3241	Machine Elements II	C	3	0	3	5
MMD3140	Automatic Control	C	3	0	3	4	MEN3230	Internal Combustion Engines I	C	3	0	3	4
MKI3125	Welding Technology	C	2	0	2	3	MMD3241	Machine Dynamic	C	3	0	3	4
MKI3146	Machining	C	3	0	3	5	MKI3223	Plastic deformation processing of Metals	C	2	0	2	3
MMM3120	Introduction to Finite Element Method	C	2	0	2	3	MUY3205	Lab Machine I	C	0	2	1	2
	Course Selected I (2 courses selected)	E	4	0	4	6	MPR3205	Machine Design I	C	2	0	2	3
								Course Selected II (1 course selected)	E	2	0	2	3
							STJ1201	Summer Internship	C	0	0	0	2
	Total		19	0	19	30		Total		18	2	19	30

4th YEAR

7th SEMESTER							8th SEMESTER						
CODE	COURSE NAME	Category	T	L	C	ECTS	CODE	COURSE NAME	Category	T	L	C	ECTS
MAK4122	Electrotechnics	C	2	0	2	3	ISG4201	Occupational Health and Safety II (online)	C	2	0	2	3
MUY4105	Lab Machine II	C	0	2	1	2	GROUP 1	MAK4219 - Senior Project	C	0	2	1	3
MAK4124	Machine Design II	C	2	0	2	4		Course Selected IV (4 Course selected)	E	12	0	12	16
ISG4101	Occupational Health and Safety I	C	2	0	2	3		Social Course Selected I (1 Course selected)	E	2	0	2	3
	Course Selected III (3 Course selected)	E	9	0	9	12		University Course Selected II (1 Course selected)	E	2	0	2	3
	Social Course Selected I (1 Course selected)	E	2	0	2	3		GROUP 2 JME4202	Technical Training in the Workplace	E	5	24	17
	University Course Selected I (1 Course selected)	E	2	0	2	3	STJ1301	Summer Internship	C	0	0	0	2
	Total		19	2	20	30		Total		18	2	19	30

C: Compulsory E: Elective T: Theory A: Application C: Credit

MAK: Mechanical Engineering MTB: Basic Science MMD: Mechanic theory and Dynamics. MMM: Mechanics MKI: Construction and Manufacturing

MTR: Thermodynamics MEN:Energy MUY: Laboratory MPR:Project MCB: Senior Project

REPUBLIC OF TÜRKİYE BALIKESİR UNIVERSITY FACULTY OF ENGINEERING DEPARTMENT OF MECHANICAL ENGINEERING (REGULAR EDUCATION) 2023-2024 UNDERGRADUATE ELECTIVE COURSES

2nd Year Technical Elective Courses	
1	2
3	4
5	6
7	8
9	10
11	12
13	14
15	16
17	18
19	20
21	22
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79	80
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83	84
85	86
87	88
89	90
91	92
93	94
95	96
97	98
99	100

3.Semester Technical Courses Selected		Category	T	L	C	ECTS	CODE	4.Semester Technical Courses Selected		Category	T	L	C	ECTS
MMT2101	Technical Foreign Language I	E	2	0	2	3	MMT2201	Technical Foreign Language II	E	2	0	2	3	
MMT2102	Computer Aided Engineering Applications (MATLAB)	E	2	0	2	3	MMT2202	Engineering Economy	E	2	0	2	3	
MMT2104	Applied Statistics	E	2	0	2	3	MMT2203	Renewable Energy Resources	E	2	0	0	3	
MTR2104	Enviromental Techniques	E	2	0	2	3	MMT2233	The Basic Principles of Design	E	2	0	2	3	
							MKI2204	Corrosion Technique	E	2	0	2	3	

3rd Year Technical Elective Courses	
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CODE	5.Semester Technical Courses Selected	Category	T	L	C	ECTS	CODE	6.Semester Technical Courses Selected	Category	T	L	C	ECTS
MTR3121	Sanitary Installation	E	2	0	2	3	MKI3221	Heat Treatments	E	2	0	2	3
MKI3121	Construction	E	2	0	2	3	MKI3224	Die Design	E	2	0	2	3
MKI3124	Plastic Materials	E	2	0	2	3	MAK3225	Non-Ferrous Metals	E	2	0	2	3
MKI3126	Casting Techniques	E	2	0	2	3	MMM3222	Mechanics of Composite Materials	E	2	0	2	3
MKI3127	Additive Manufacturing Tec.(3D Printers)	E	2	0	2	3	MMM3226	Introduction to Fracture Mechanics	E	2	0	2	3
MMM3122	Scientific Work Techniques And Ethic	E	2	0	2	3							
MMM3121	Introduction to Theory of Elasticity	E	2	0	2	3							

4th Year Technical Elective Courses

CODE	7. Semester Technical Courses Selected	Category	T	L	C	ECTS	CODE	8. Semester Technical Courses Selected	Category	T	L	C	ECTS
MAK4101	Internal Combustion Engines II	E	3	0	3	4	MAK4201	Applied Fluid Mechanics Analysis	E	3	0	3	4
MAK4103	Heating Systems	E	3	0	3	4	MAK4202	Air Conditioning Systems	E	3	0	3	4
MAK4104	Steam Boiler and turbines	E	3	0	3	4	MAK4203	Energy Management	E	3	0	3	4
MAK4105	Wind Power Plant	E	3	0	3	4	MAK4204	Power Plants Technolgy	E	3	0	3	4
MAK4106	Refrigeration Engineering	E	3	0	3	4	MAK4206	Gas Installation	E	3	0	3	4
MAK4107	Heat Exchangers	E	3	0	3	4	MAK4207	Solar Energy Systems	E	3	0	3	4
MAK4108	Computer Aided Manufacturing	E	3	0	3	4	MAK4208	Flow Machines	E	3	0	3	4
MAK4109	Hydraulic and Pneumatics	E	3	0	3	4	MAK4209	Quality Control	E	3	0	3	4
MAK4110	Production Planning	E	3	0	3	4	MAK4210	Materials Selection	E	3	0	3	4
MAK4111	Modeling and Analysis	E	3	0	3	4	MAK4211	Metallurgy of Welding	E	3	0	3	4
MAK4112	Programmable Logical Controls (PLC)	E	3	0	3	4	MAK4212	Ergonomics	E	3	0	3	4
MAK4113	Factory Organization	E	3	0	3	4	MAK4213	Machine Tool Constructions	E	3	0	3	4
MAK4114	Transport Technique	E	3	0	3	4	MAK4214	Vehicle Construction	E	3	0	3	4
MAK4115	Mechanical Vibrations	E	3	0	3	4	MAK4215	Powder Metallurgy	E	3	0	3	4
MAK4116	Motor Vehicles	E	3	0	3	4	MAK4216	Heat Exchanger Selection in Engineering	E	3	0	3	4
MAK4117	Fuels and Combustion	E	3	0	3	4	MTH42--	Sector on Campus I	E	3	0	3	4
MAK4118	Plastic Injection Flow Analysis	E	3	0	3	4	MTH42--	Sector on Campus II	E	3	0	3	4
MAK4119	Introduction to Robotics	E	3	0	3	4							
MAK4110	Gas Turbines	E	3	0	3	4							
MAK4121	Computer Aided Engineerin Analysis	E	3	0	3	4							
MTH41--	Sector on Campus I	E	3	0	3	4							
MTH41--	Sector on Campus II	E	3	0	3	4							

4th Year Social Elective Courses

[illegible]

4th Year University Elective Courses

[illegible]

C: Compulsory E: Elective T: Theory A: Application C: Credit
MAK: Mechanical Engineering MTB: Basic Science MMD: Mechanic theory and Dynamics, MMM: Mechanics MKI: Construction and Manufacturing
MTR: Thermodynamics MEN: Energy MUY: Laboratory MPR: Project MCB: Senior Project

REPUBLIC OF TÜRKİYE
BALIKESİR UNIVERSITY
FACULTY OF ENGINEERING
DEPARTMENT OF MECHANICAL ENGINEERING (2nd EDUCATION)
2023-2024 UNDERGRADUATE ELECTIVE COURSES

2nd Year Technical Elective Courses

	3.Semester Technical Courses Selected	Category	T	L	C	ECTS	CODE	4.Semester Technical Courses Selected	Category	T	L	C	ECTS
MMT2101	Technical Foreign Language I	E	2	0	2	3	MMT2201	Technical Foreign Language II	E	2	0	2	3
MMT2102	Computer Aided Engineering Applications (MATLAB)	E	2	0	2	3	MMT2202	Engineering Economy	E	2	0	2	3
MMT2104	Applied Statistics	E	2	0	2	3	MMT2203	Renewable Energy Resources	E	2	0	0	3
MTR2104	Enviromental Techniques	E	2	0	2	3	MMT2233	The Basic Principles of Design	E	2	0	2	3
							MKI2204	Corrosion Technique	E	2	0	2	3

3rd Year Technical Elective Courses

CODE	5.Semester Technical Courses Selected	Category	T	L	C	ECTS	CODE	6.Semester Technical Courses Selected	Category	T	L	C	ECTS
MTR3121	Sanitary Installation	E	2	0	2	3	MKI3221	Heat Treatments	E	2	0	2	3
MKI3121	Construction	E	2	0	2	3	MKI3224	Die Design	E	2	0	2	3
MKI3124	Plastic Materials	E	2	0	2	3	MAK3225	Non-Ferrous Metals	E	2	0	2	3
MKI3126	Casting Techniques	E	2	0	2	3	MMM3222	Mechanics of Composite Materials	E	2	0	2	3
MKI3127	Additive Manufacturing Tec.(3D Printers)	E	2	0	2	3	MMM3226	Introduction to Fracture Mechanics	E	2	0	2	3
MMM3122	Scientific Work Techniques And Ethic	E	2	0	2	3							
MMM3121	Introduction to Theory of Elasticity	E	2	0	2	3							

4th Year Technical Elective Courses

CODE	7. Semester Technical Courses Selected	Category	T	L	C	ECTS	CODE	8. Semester Technical Courses Selected	Category	T	L	C	ECTS
MAK4101	Internal Combustion Engines II	E	3	0	3	4	MAK4201	Applied Fluid Mechanics Analysis	E	3	0	3	4
MAK4103	Heating Systems	E	3	0	3	4	MAK4202	Air Conditioning Systems	E	3	0	3	4
MAK4104	Steam Boiler and turbines	E	3	0	3	4	MAK4203	Energy Management	E	3	0	3	4
MAK4105	Wind Power Plant	E	3	0	3	4	MAK4204	Power Plants Technolgy	E	3	0	3	4
MAK4106	Refrigeration Engineering	E	3	0	3	4	MAK4206	Gas Installation	E	3	0	3	4
MAK4107	Heat Exchangers	E	3	0	3	4	MAK4207	Solar Energy Systems	E	3	0	3	4
MAK4108	Computer Aided Manufacturing	E	3	0	3	4	MAK4208	Flow Machines	E	3	0	3	4
MAK4109	Hydraulic and Pneumatics	E	3	0	3	4	MAK4209	Quality Control	E	3	0	3	4
MAK4110	Production Planning	E	3	0	3	4	MAK4210	Materials Selection	E	3	0	3	4
MAK4111	Modeling and Analysis	E	3	0	3	4	MAK4211	Metallurgy of Welding	E	3	0	3	4
MAK4112	Programmable Logical Controls (PLC)	E	3	0	3	4	MAK4212	Ergonomics	E	3	0	3	4
MAK4113	Factory Organization	E	3	0	3	4	MAK4213	Machine Tool Constructions	E	3	0	3	4
MAK4114	Transport Technique	E	3	0	3	4	MAK4214	Vehicle Construction	E	3	0	3	4
MAK4115	Mechanical Vibrations	E	3	0	3	4	MAK4215	Powder Metallurgy	E	3	0	3	4
MAK4116	Motor Vehicles	E	3	0	3	4	MAK4216	Heat Exchanger Selection in Engineering	E	3	0	3	4
MAK4117	Fuels and Combustion	E	3	0	3	4	MTH42--	Sector on Campus I	E	3	0	3	4
MAK4118	Plastic Injection Flow Analysis	E	3	0	3	4	MTH42--	Sector on Campus II	E	3	0	3	4
MAK4119	Introducion to Robotics	E	3	0	3	4							
MAK4110	Gas Turbines	E	3	0	3	4							
MAK4121	Computer Aided Engineerin Analysis	E	3	0	3	4							
MTH41--	Sector on Campus I	E	3	0	3	4							
MTH41--	Sector on Campus II	E	3	0	3	4							

4th Year Social Elective Courses

KOD	7. Semester Social Courses Selected	Category	T	L	C	ECTS	KOD	8. Semester Social Courses Selected	Category	T	L	C	ECTS
MMS4102	Entrepreneurship I	E	2	0	2	3	MMS4202	Entrepreneurship II	E	2	0	2	3

4th Year Universty Elective Courses

KOD	7. Semester University Course Selected	Category	T	L	C	ECTS	KOD	8. Semester University Course Selected	Category	T	L	C	ECTS

C: Compulsory E:Elective T:Theory A:Application C:Credit
MAK: Mechanical Engineering MTB: Basic Science MMD:Mechanic theory and Dynamics, MMM: Mechanics MKI: Construction and Manufacturing
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