

GTÜ Makine Mühendisliği Ders Planı

1. Yıl Güz Dönemi

Kod	Ders	Kred i	ECT S	T	U	L	Türü
MATH 101	Calculus I	5	7	4	2	0	TB
PHYS 121	Physics I	4	6	4	0	0	TB
PHYS 151	Physics Lab I	1	1	0	0	2	TB
CHEM 101	General Chemistry I	3	5	3	0	0	TB
CHEM 113	General Chemistry Lab I	1	1	0	0	2	TB
ME 101	Intr to Mechanical Engineering	2,5	5	2	0	1	TM
ME 104	Computer Aided Drawing	3	4	2	0	2	TM
ME 107	Computational Sys. in Mech Eng.	2,5	3	2	1	0	TM
Toplam		22	32				

2. Yıl Güz Dönemi

Kod	Ders	Kred i	ECT S	T	U	L	Türü
MATH 215	Differential Equations	3	5	2	2	0	TB
ME 209	Engineering Statistics	2,5	4	2	1	0	TB
ME 211	Materials Science for Engineers	4	6	4	0	0	TM
ME 231	Statics	3	5	3	0	0	TM
ME 241	Principles of Thermodynamics	3,5	5	3	1	0	TM
TUR 101	Turkish I	2	2	2	0	0	GE
ENG 401	Occupational Health and Safety I	1	1	1	0	0	GE
Toplam		19	28				

3. Yıl Güz Dönemi

Kod	Ders	Kred i	ECT S	T	U	L	Türü
ME 321	Manufacturing Processes	3	5	3	0	0	MT
ME 323	Design of Machine Elements	4	6	4	0	0	MT
ME 331	System Dynamics and Vibration	3,5	5	3	0	0	TM
ME 341	Fluid Mechanics	4	6	4	0	0	TM
SSTR 101	History	2	2	2	0	0	GE
ENG 300	Summer Practice I	0,5	1	0	1	0	TM
	Technical Elective (MATH)	3	4	3	0	0	TB
Toplam		19,5	29				

4. Yıl Güz Dönemi

Kod	Ders	Kred i	ECT S	T	U	L	Türü
ME 491	Graduation Project I	2	6	0	4	0	MT
ENG 111	Academic English	2	2	2	0	0	GE
ENG 400	Summer Practice II	0,5	1	0	1	0	TM
	ME Elective (Design) II	3,5	6	3	1	0	MT
	ME Elective (Computational) III	3,5	6	3	1	0	MT
	ME Elective I	3	5	3	0	0	MT
	Technical Elective (Science)	3	4	3	0	0	TM/MT/TB
Toplam		17,5	30				

	Bölüm Dersleri		140	
	Diğer Müh. Dersleri		9	
Abet	Matematik ve Temel Bilim		65	>60
YOK	YOK Dersleri		22	zorunlu
AKTS	Seçmeli Dersler		60	>=60
	Toplam Kredi		158	

Bölüm Zorunlu

Ders Kodu	On Şart
ME 101	YOK
ME 102	ME101, ME107 (minimum DD)
ME 104	YOK
ME 107	YOK
ME 108	ME107 (minimum DD)
ME 209	YOK
ME 211	YOK
ME 212	YOK
ME 231	YOK
ME 232	ME231 (minimum DD)
ME 241	YOK
ME 242	ME241 (minimum DD)
ME 304	ME209 (minimum DD)
ME 321	YOK
ME 322	ME232 (minimum DD)
ME 323	ME212 (minimum DD)
ME 331	YOK
ME 332	ME331 (minimum DD)
ME 341	YOK
ME 342	ME241 (minimum DD)

1. Yıl Bahar Dönemi

Kod	Ders	Kred i	ECT S	T	U	L	Türü
MATH 102	Calculus II	5	7	4	2	0	TB
PHYS 122	Physics II	4	6	4	0	0	TB
PHYS 152	Physics Lab II	1	1	0	0	2	TB
MATH 116	Linear Algebra	3	5	3	0	0	TB
ME 102	Mechanical Eng Freshman Project	0,5	2	0	1	0	MT
ENG 250	Economics	3	3	3	0	0	SOS
ME 108(INF202)	Advanced Programming in Mech. Eng.	3	4	2	0	2	TM
Toplam		19,5	28				

2. Yıl Bahar Dönemi

Kod	Ders	Kred i	ECT S	T	U	L	Türü
MATH 214	Numerical Methods	3	5	3	0	0	TB
ME 212	Strength of Materials	4	6	4	0	0	MT
ME 242	Applications of Thermodynamics	3	4	2	2	0	TM
ME 234	Electrical and Electronics Systems	4	6	3	0	2	TM
ME 232	Dynamics	3,5	5	3	1	0	TM
TUR 102	Turkish II	2	2	2	0	0	GE
ENG 402	Occupational Health and Safety II	1	1	1	0	0	GE
	Non-Technical Elective	2	3	2	0	0	SOS
Toplam		22,5	32				

3. Yıl Bahar Dönemi

Kod	Ders	Kred i	ECT S	T	U	L	Türü
ME 304	Measurement and Instrumentation	3	4	3	0	0	TM
ME 332	Control Systems Theory	3	5	3	0	0	MT
ME 342	Heat Transfer	3	5	3	0	0	TM
ENG 111	Business English	2	2	2	0	0	GE
SSTR 102	History	2	2	2	0	0	GE
ME 322	Machine Theory	3	5	3	0	0	MT
	ME Elective I	3	5	3	0	0	MT
	Non-Technical Elective	2	3	2	0	0	SOS
Toplam		21	31				

4. Yıl Bahar Dönemi

Kod	Ders	Kred i	ECT S	T	U	L	Türü
ME 492	Graduation Project II	2	6	0	4	0	MT
	ME Elective I	3	5	3	0	0	MT
	ME Elective I	3	5	3	0	0	MT
	ME Elective I	3	5	3	0	0	MT
	ME Elective I	3	5	3	0	0	MT
	Technical Elective	3	4	3	0	0	TM/MT/TB
Toplam		17	30				

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ME 492	Graduation Project II		6	0	4	0	MT
ENG 498	Industrial Applications		24	0	24	0	MT
	ME Elective		42				
	Technical Elective		12				
	Non-Technical Elective		6				
	TOPLAM AKTS		240				

Teknik Seçmeli / Technical Elective

Ders Kodu	Ders Adı
BUS 405	Personnel Selection and Placement
BUS 441	The European Union: Institutions and Policy Making
BUS 451	Introduction to Business
ENG 451	Entrepreneurship
ENG 460	Introduction to Photography
FL 481	Basic Russian I
ENG 452	Technological Entrepreneurship
ENG 453	Intellectual and Industrial Property Rights
ENG 454	Patent Registration and Preparation of Description

Bölüm Seçmeli I / ME Elective I		
Ders Kodu	Ders Adı	Ön Şart
ME 302	Optimization in Eng. Systems	MATH214 (minimum CC)
ME 314	Introduction to Composite Materials	ME212, ME231 (minimum DD)
ME 344	Aerodynamics	MATH215, ME232, ME341 (minimum CC)
ME 402	Introduction to Finite Element Analysis	MATH116, ME212, ME342 (minimum DD)
ME 444	Refrigeration Technology	ME242 (minimum DD)
Bölüm Seçmeli II (Tasarım) / ME Elective (Design) II		
Ders Kodu	Ders Adı	Ön Şart
ME 447	Heating, Ventilating and Air Conditioning	ME342 (minimum DD)
Bölüm Seçmeli (Hesaplama) III / ME Elective (Computational) III		
Ders Kodu	Ders Adı	Ön Şart
ME 441	Fundamentals of Computational Fluid Dynamics	ME341 (minimum DD)
ME 449	Introduction to Turbulence	ME341 (minimum DD)

