MUĞLA SITKI KOÇMAN ÜNİVERSİTESİ / MÜHENDİSLİK FAKÜLTESİ
DEPARTMENT OF METALLURGICAL AND MATERIALS ENGINEERING
METALURJİ VE MALZEME MÜHENDİSLİĞİ BÖLÜMÜ
EĞİTİM ÖĞRETİM PROGRAMI

Ders Kodu	**Ders Adı**			**Kredi**						
				T	**U**	**L**	**K**	**Z/S**	**Ön Koşul**	**Yan Koşul**
CHEM 1851	General Chemistry I	1	1	3	0	2	6	Z		
ENG 1803	Academic Writing and Oral Presentation Skills I	1	1	1	2	0	2	Z		
MATH 1851	Calculus I	1	1	4	2	0	6	Z		
PHYS 1851	General Physics I	1	1	3	0	2	6	Z		
ISG 1801	Occupational Health and Safety I	1	1	2	0	0	2	Z		
TDB 1801	Turkish I	1	1	2	0	0	2	Z		
MME 1007	Introduction to Materials Science and Engineering I	1	1	3	0	0	3	Z		
	Free Elective (BDS/BIS)	1	1				3	S		
						AKTS	**30**			

				T	**U**	**L**	**K**	**Z/S**	**Ön Koşul**	**Yan Koşul**
CHEM 1852	General Chemistry II	1	2	3	0	2	6	Z		
ENG 1804	Academic Writing and Oral Presentation Skills II	1	2	1	2	0	2	Z		
MATH 1852	Calculus II	1	2	4	2	0	6	Z		
PHYS 1852	General Physics II	1	2	3	0	2	6	Z		
ISG 1802	Occupational Health and Safety II	1	2	2	0	0	2	Z		
TDB 1802	Turkish II	1	2	2	0	0	2	Z		
MME 1006	Technical Drawing	1	2	1	2	0	3	Z		
MME 1008	Introduction to Materials Science and Engineering II	1	2	3	0	0	3	Z		
						AKTS	**30**			

				T	**U**	**L**	**K**	**Z/S**	**Ön Koşul**	**Yan Koşul**
ATB 2801	Principles of Kemal Ataturk I	2	3	2	0	0	2	Z		
MATH 2853	Differential Equations	2	3	3	0	0	4	Z		
STA 2801	Engineering Statistics	2	3	3	0	0	4	Z		
MME 2007	Mechanical Behavior of Materials	2	3	3	0	0	4	Z		
MME 2013	Ceramic Materials I	2	3	3	0	0	4	Z		
MME 2015	Metallurgical Thermodynamics I	2	3	3	0	0	5	Z		
MME 2017	Phase Diagrams	2	3	3	0	0	4	Z		
	Free Elective (BDS/BIS)	2	3				3	S		
						AKTS	**30**			

				T	U	L	K	Z/S	Ön Koşul	Yan Koşul
ATB 2802	Principles of Kemal Ataturk II	2	4	2	0	0	2	Z		
MATH 2854	Basic Linear Algebra for Engineers	2	4	3	0	0	4	Z		
MME 2014	Ceramic Materials II	2	4	3	0	0	4	Z	MME 2013	
MME 2016	Metallurgical Thermodynamics II	2	4	3	0	0	5	Z	MME 2015	
MME 2020	Polymeric Materials	2	4	3	0	0	4	Z		
MME 2022	Computer Applications in Met. And Mat. Eng.	2	4	1	2	0	3	Z		
	Technical Elective (BIS)	2	4				8	S		
MME 2506	Refractory Materials	2	4	3	0	0	4	S		
MME 2514	Glass and Glass-Ceramics	2	4	3	0	0	4	S		
MME 2516	Metallurgy in Türkiye	2	4	3	0	0	4	S		
MME 2518	Materials Physics	2	4	3	0	0	4	S		
MME 2520	Crystallography	2	4	3	0	0	4	S		
MME 2522	Heat Treatment	2	4	3	0	0	4	S		
MME 2524	History of Metallurgy	2	4	3	0	0	4	S		
						AKTS	**30**			

				T	U	L	K	Z/S	Ön Koşul	Yan Koşul
MME 3001	Summer Practice I	3	5	0	2	0	5	Z		
MME 3003	Solidification and Casting I	3	5	3	0	0	4	Z		
MME 3009	Chemical Metallurgy 1	3	5	3	0	0	4	Z		
MME 3015	Physical Metallurgy I	3	5	3	0	0	5	Z		
MME 3019	Materials Characterization Techniques I	3	5	3	0	2	4	Z		
	Technical Elective (BIS)						8			
MME 3519	Powder Metallurgy	3	5	3	0	0	4	S		
MME 3521	Electrical and Optical Properties of Materials	3	5	3	0	0	4	S		
MME 3523	Materials Energy and Balance	3	5	3	0	0	4	S		
MME 3525	Basics of Recycling	3	5	3	0	0	4	S		
MME 3527	Polymer Processing	3	5	3	0	0	4	S		
MME 3529	Thin Film Coating Technologies	3	5	3	0	0	4	S		
						AKTS	**30**			

				T	U	L	K	Z/S	Ön Koşul	Yan Koşul
MME 3010	Chemical Metallurgy II	3	6	3	0	0	4	Z		
MME 3012	Materials Characterization Techniques II	3	6	4	0	2	5	Z		
MME 3016	Physical Metallurgy II	3	6	3	0	0	5	Z		
MME 3018	Alloys I	3	6	3	0	0	5	Z		
MME 3020	Transport Phenomena	3	6	3	0	0	4	Z		
	Free Elective (BDS)*	3	6				3	S		
	Technical Elective (BIS)	3	6				4	S		
MME 3522	Joining and Welding of Materials	3	6	3	0	0	4	S		
MME 3530	Solidification and Casting II	3	6	3	0	0	4	S		
MME 3532	Enviromental Impact of Metallurgical and Materials Industry	3	6	3	0	0	4	S		
						AKTS	**30**			

				T	U	L	K	Z/S	Ön Koşul	Yan Koşul
MME 4001	Summer Practice II	4	7	0	2	0	5	Z		
MME 4023	Application of Materials Processing and Design I	4	7	3	0	0	4	Z		
MME 4017	Material Selection and Design	4	7	2	1	0	3	Z		
MME 4019	Materials Characterization Techniques III	4	7	3	0	0	3	Z		
MME 4025	Materials Processing Laboratory	4	7	0	0	3	3	Z		
	Technical Elective (BIS)	4	7				12	S		
MME 4515	Surface Modification Techniques	4	7	3	0	0	4	S		
MME 4519	Phase Transformations	4	7	3	0	0	4	S		
MME 4521	Materials for Energy Storage and Conversion	4	7	3	0	0	4	S		
MME 4523	Plasticity and Deformation Process	4	7	3	0	0	4	S		
MME 4525	Smart Materials	4	7	3	0	0	4	S		
MME 4527	Composite Materials	4	7	3	0	0	4	S		
MME 4529	Materials Research I	4	7	1	0	2	2	S		
MME 4531	Alloys II	4	7	3	0	0	4	S		
MME 4533	Cast Irons and Their Industrial Applications	4	7	3	0	0	4	S		
						AKTS	**30**			

				T	U	L	K	Z/S	Ön Koşul	Yan Koşul
MME 4010	Application of Materials Processing and Design II	4	8	6	0	0	6	Z	MME 4023	
MME 4008	Corrosion and Corrosion Protection	4	8	3	0	0	4	Z		
	Technical Elective (BIS)	4	8				20	S		
MME 4506	Biomaterials	4	8	3	0	0	4	S		
MME 4512	Archaeometallurgy	4	8	3	0	0	4	S		
MME 4522	Electrochemical Energy Systems	4	8	3	0	0	4	S		
MME 4524	Failure Analysis	4	8	3	0	0	4	S		
MME 4526	Iron and Steel Production	4	8	3	0	0	4	S		
MME 4528	Nano Materials and Nano Technology	4	8	3	0	0	4	S		
MME 4530	Materials Research II	4	8	1	0	2	2	S		
MME 4532	Non-Destructive Testing of Materials	4	8	3	0	0	4	S		
MME 4534	Speciality Steel Alloys and Their Industrial Applications	4	8	3	0	0	4	S		
MME 4536	Advanced Ceramic Materials	4	8	3	0	0	4	S		
						AKTS	**30**			

Mezuniyet için alınması gereken minimum AKTS kredisi / Minimum ECTS Credit for Graduation		**240**
Zorunlu Dersler AKTS / Required Course ECTS	**Ortak Zorunlu / Common Required**	**12**
	Zorunlu / Required	**167**
Seçimli Dersler AKTS / Elective Courses ECTS	**Teknik Seçmeli / Technical Elective (BİS)**	**52**
	Serbest Seçmeli / Free Elective (BDS/BİS)	**9**

NOT 1:	Seçmeli derslerin kredisi birden fazla ders alınarak sağlanabilir. Seçmeli derslerde (BİS/BDS) döneminde alınma şartı aranmaz.

NOT 2:	Öğrencilerin mezun olabilmesi için 9 AKTS'lik serbest seçmeli ders alması gerekmektedir. Serbest seçmeli dersler döneminde alınma şartı aranmaksızın Bölüm Dışı Seçmeli (BDS) / Bölüm İçi Seçmeli (BİS) dersleri arasından seçilebilir. *Bu kapsamda alınacak olan serbest seçmeli derslerden biri (6.YY.) "ENG 3500 Interdisciplinary Engineering Project" dersi olmak zorundadır.
NOT 3 :	(MME 3001, MME 4001) dersleri güz ve bahar dönemi olmak üzere iki dönemde açılır. MME 4023 dersinin bahar döneminde açılması için mezuniyet durumundaki öğrencinin dersi seçeceği öğretim üyesi ve akademik danışman onayı gerekmektedir.