Mechanical Engineering Double Major Program for the Department of Materials Science and Engineering Mechanical Engineering Double Major Program for Department of Metallurgical and Materials Engineering

	Prerequisite	COURSE C.	COURSE NAME	Taken from	Compulsory or elective	Т		L	ECTS
FALL		CHE103	General Chemistry	Major	Compulsory	3	_	_	5
		MAT101	Calculus I	Major	Compulsory	3	2		7
		MSE115	Introduction to Materials Science Engineering	Major	Compulsory	2			4
'R F		PHY101	Physics I	Major	Compulsory	3		2	7
YEAR		ENG110	English I	Major	Compulsory	2			3
1^{st}		ATA101	Principles of Atatürk and Hist. of the Turkish Rev. I	Major	Compulsory	2	0		2
		TDE101	Turkish Language I	Major	Compulsory	2	0		2
			TOTAL SEMESTER ECTS						30
	MAT101	MAT102	Calculus II	Major	Compulsory	3	2		7
(7)		MSE110	Computer Aided Engineering Graphics	Major	Compulsory	2	2		4
YEAR SPRING		MSE219	Statics and Strength of Materials	Major	Compulsory	3	0		5
SPI		PHY102	Physics II	Major	Compulsory	3	0	2	7
EAR		ENG111	English II	Major	Compulsory	2	0		3
		ATA102	Principles of Atatürk and Hist.of the Turkish Rev. II	Major	Compulsory	2	0		2
1^{st}		TDE102	Turkish Language II	Major	Compulsory	2	0	П	2
			TOTAL SEMESTER ECTS		, ,			П	30
		COE201	Computer Programming and Applications	Major	Compulsory	2	2	\vdash	4
		MSE211	Applied Engineering Mathematics	Major	Compulsory	3	_		5
ᆿ		ME211	Computer Aided Engineering Drawing II	Double Major	Compulsory	2		Н	5
YEAR FALL		MSE215	Materials Science I	Major	Compulsory	3	-	H	6
EAF		MSE213	Thermodynamics of Materials I	Major	Compulsory	3		Н	5
		MSE317	Mechanical Behaviour of Materials	Major	Compulsory	3	_		5
2 nd		IVISES17	Non-Technical Elective I	Major	Elective	2	_	$\vdash\vdash$	3
				iviajoi	Elective		U	$\vdash\vdash$	33
		N45343	TOTAL SEMESTER ECTS	Davible Maior	Camanulaami	1	_	₩	
	1465245	ME212	Dynamics	Double Major	Compulsory	3	_		4
9	MSE215	MSE216	Materials Science II	Major	Compulsory	3			6
YEAR SPRING		MSE222	Statistical Methods for Engineering	Major	Compulsory	3	_		5
R SF		ME242	Thermodynamics II	Double Major	Compulsory	3	_	Ш	4
ÆA		ME252	Fundamentals of Electrical and Electronic Circuits	Double Major	Compulsory	3	_	Ш	4
2 nd \		ME262	Strength of Materials II	Double Major	Compulsory	3	_		5
7			Non-Technical Elective II	Major	Elective	2	0		3
			TOTAL SEMESTER ECTS						31
		ME311	Machine Elements I	Double Major	Compulsory	2	2		5
		ME321	Fluid Mechanics	Double Major	Compulsory	4	0		5
ļ.		ME331	Theory of Mechanisms	Double Major	Compulsory	3	0		4
R F/		ME341	Numerical Methods in Engineering	Double Major	Compulsory	3	1	П	4
YEAR FALL		ME351	Heat Transfer	Double Major	Compulsory	4	0		5
3 rd)		MSE324	Materials Process Technologies	Major	Compulsory	3	0	Н	5
m			Non-Technical Elective III	Major	Elective	2	_	\Box	3
			TOTAL SEMESTER ECTS					\Box	31
		ME300	Summer Practice I	Double Major	Compulsory	0	2	H	5
		ME312	Machine Elements II	Double Major	Compulsory	2	_	-	4
IJ		ME322	Thermal&Fluid Engineering	Double Major	Compulsory	2	_		4
YEAR SPRING		ME332	Dynamics of Machinery	Double Major	Compulsory	3	_	\vdash	3
SP			·		, ,	3		\vdash	4
EAR	1465245	ME362	Manufacturing Engineering	Double Major	Compulsory		-		
	MSE215	MSE312	Materials Laboratory	Major	Compulsory	2	_	4	5
3 rd		ME382	System Analysis and Control	Double Major	Compulsory	4	_	Ш	4
			Non-Technical Elective IV	Major	Elective	2	0	Ш	3
			TOTAL SEMESTER ECTS					Ш	32
		ES411	Occupational Health and Safety I	Major	Compulsory	2	_		3
╛		MSE400	Summer Practice II	Major	Compulsory	0	_		5
YEAR FALL		ENG4XX	Interdisciplinary Technical Elective Courses	Major or Double Major	Elective	0	2		6
4 th YE		ME4XX	Departmental Elective (3 courses will be selected from ME4XX elective c.)	Double Major	Elective				18
			TOTAL SEMESTER ECTS						32
YEAR SPRING		ES412	Occupational Health and Safety II	Major	Compulsory	2	0		3
		ME4DE2	Design Elective Course (Group B)	Double Major	Elective	+		\vdash	8
		ME4XX	Departmental Elective (3 courses will be selected from	Double Major	Elective	+			
			ME4XX elective (.)						18
4 th Y			TOTAL SEMESTER ECTS			+		\vdash	29
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