	Metalurji ve Malzeme Mühendisliği Böl. Makine Mühendisliği Bölümü için Çift Anadal Programı Müfredatı  Prerequisite COURSE C. COURSE NAME Taken Compulsory T A L ECTS									
	Prerequisite	COURSE C.	COURSE NAME	Taken from	or elective	T	Α	L	ECTS	
		CHE101	Chemistry for Engineers	Major	Compulsory	3	0	2	5	
ER		MAT101	Calculus I	Major	Compulsory	3	2		7	
1EST		ME101	Introduction to Mechanical Engineering	Major	Compulsory	2	0		4	
1. YEAR FALL SEMESTER		PHY101	Physics I	Major	Compulsory	3	0	2	7	
		ENG110	English I	Major	Compulsory	2	0		3	
		ATA101	Principles of Atatürk and Hist. of the Turkish Rev. I	Major	Compulsory	2	0		2	
1.		TDE101	Turkish Language I	Major	Compulsory	2	0		2	
			TOTAL SEMESTER ECTS						30	
~	MAT101	MAT102	Calculus II	Major	Compulsory	3	2		7	
STEF		ME112	Computer Aided Engineering Drawing I	Major	Compulsory	2	2		5	
ME		ME122	Statics	Major	Compulsory	3	0		4	
3 SE		PHY102	Physics II	Major	Compulsory	3	0	2	7	
NIN N		ENG111	English II	Major	Compulsory	2	0		3	
1. YEAR SPRING SEMESTER		ATA102	Principles of Atatürk and Hist.of the Turkish Rev. II	Major	Compulsory	2	0		2	
. YE		TDE102	Turkish Language II	Major	Compulsory	2	0		2	
1			TOTAL SEMESTER ECTS						30	
		COE201	Computer Programming and Applications	Major	Compulsory	2	2		4	
ER		MAT205	Differential Equations	Major	Compulsory	3	0		6	
IEST		ME211	Computer Aided Engineering Drawing II	Major	Compulsory	2	2		5	
YEAR FALL SEMESTER		MSE215	Materials Science I	Double Major	Compulsory	3	0		6	
EAR FA		MSE213	Thermodynamics of Materials I	Double Major	Compulsory	3	0		5	
2. YE		ME261	Strength of Materials I	Major	Compulsory	3	0		4	
			Non-Technical Elective I	Major	Elective	2	0		3	
			TOTAL SEMESTER ECTS						33	
		COURSE C.	COURSE NAME			T	Α	L	ECTS	
~	MSE215	MSE216	Materials Science II	Double Major	Compulsory	3	0		6	
2. YEAR SPRING SEMESTER		ME232	Applied Mathematics for Engineers	Major	Compulsory	3	0		4	
		MSE214	Thermodynamics of Materials II	Double Major	Compulsory	3	0		5	
		MSE228	Solid State Physics for Materials Science and Engineering	Double Major	Compulsory	3	0		5	
		ME262	Strength of Materials II	Major	Compulsory	3	0		5	
		ME206	Economy for Engineers	Major	Compulsory	2	0		2	
			Non-Technical Elective II	Major	Elective	2	0		3	
			TOTAL SEMESTER ECTS						30	

		COURSE C.	COURSE NAME			Т	Α	L	ECTS
3. YEAR FALL SEMESTER		MSE313	Phase Diagrams	Double Major	Compulsory	3	0		5
		ME321	Fluid Mechanics	Major	Compulsory	4	0		5
			Materials Characterization Techniques I	Double	Compulsory				
		MSE315	Waterials Characterization recliniques i	Major		1	0	3	6
		MSE-TE	Technical Elective	Double Major	Compulsory	3	0		6
		IVI3L-1L	reclifical Elective	Double	Compulsory	3	0		- 0
		MSE300	Summer Practice	Major	,	0	2		5
		ME361	Manufacturing Processes	Major	Compulsory	3	0		4
			Non-Technical Elective III	Major	Elective	2	0		3
			TOTAL SEMESTER ECTS						34
				Double	Compulsory				
		MSE316	Materials Characterization Techniques II	Major	. ,	2	0	4	6
~		ME312	Machine Elements II	Major	Compulsory	2	2		4
STE		ME322	Thermal&Fluid Engineering	Major	Compulsory	2	2		3
EME				Double	Elective		_		
G S		MSE-TE	Technical Elective	Major Major	Compulsory	3	0		6
RIN		ME362	Manufacturing Engineering	Double	Compulsory	3	0		4
AR SP		MSE314	Phase Transformations	Major	Compulsory	3	0		5
3. YEAR SPRING SEMESTER	MSE215	MSE312	Materials Laboratory	Double	Compulsory	2	0	4	5
m	IVISEZIS	IVISESTZ	TOTAL SEMESTER ECTS	Major			0	4	<b>33</b>
		ES411	Occupational Health and Safety I	Major	Compulsory	2	0		3
ER .		ME400	Summer Practice II	Major	Compulsory	0	2		5
ESTI				Major or	Elective				
EM		FNC 4vv	Interdisciplinary Technical Elective Courses	Double		0	2		6
IL S		ENG4xx	Materials Science And Engineering	Major Double	Compulsory	U	2		6
R FA		MSE411	Design	Major	55paisoi y	3	1		7
4. YEAR FALL SEMESTER		ME4xx	Departmental Elective	Major	Elective				6
4		ME4xx	Departmental Elective	Major	Elective				6
			TOTAL SEMESTER ECTS						33
TER				Major	Compulsory				
/IES		ES412	Occupational Health and Safety II	David-	Constitution	2	0		3
SEN		MSE444	Graduation Project	Double Major	Compulsory	2	1	1	9
ING		ME4xx	Departmental Elective	Major	Elective	3	0	-	6
4. YEAR SPRING SEMESTER		ME4xx	Departmental Elective	Major	Elective	3	0		6
AR		ME4xx	Departmental Elective	Major	Elective	3	0		6
t. YE		IVILTAA	TOTAL SEMESTER ECTS			,			30
CUMULATIVE ECTS									253