

FIRST SEMESTER								
Course Code	Course Name	C/E	T	P	L	C	ECTS	Course Prerequisite
FİZ1105	Physics Laboratory I	C	0	0	2	1	2	
FİZ1111	Physics I	C	4	0	0	4	6	
KİM1105	Chemistry	C	4	0	0	4	6	
KİM1109	Chemistry Laboratory I	C	0	0	2	1	2	
MAT1161	Mathematics I	C	4	0	0	4	6	
MKM1105	Introduction to Mechatronics Engineering, Orientation and Ethics	C	1	0	0	1	2	
YDİ107	English I	C	2	0	0	2	2	
AİT101	Principles of Atatürk and History of Turkish Reforms I	C	2	0	0	2	2	
TRD109	Turkish Language I	C	2	0	0	2	2	
	Semester Total		19	0	4	21	30	
SECOND SEMESTER								
Course Code	Course Name	C/E	T	P	L	C	ECTS	Course Prerequisite
MAT1146	Linear Algebra	C	2	0	0	2	4	
FİZ1106	Physics Laboratory II	C	0	0	2	1	2	
FİZ1112	Physics II	C	3	0	0	3	6	
MAT1162	Mathematics II	C	4	0	0	4	6	
MKM1122	Electrical Circuits	C	3	0	2	4	6	
YDİ108	English II	C	2	0	0	2	2	
AİT102	Principles of Atatürk and History of Turkish Reforms II	C	2	0	0	2	2	
TRD110	Turkish Language II	C	2	0	0	2	2	
	Semester Total		18	0	4	20	30	
THIRD SEMESTER								
Course Code	Course Name	C/E	T	P	L	C	ECTS	Course Prerequisite
MAT2171	Differential Equations	C	4	0	0	4	6	
MKM2123	Electronic Circuits	C	3	0	0	3	5	FİZ1112
MKM2125	Technical English and Presentation Skills	C	2	0	0	2	4	
MKM2111	Engineering Mechanics	C	3	0	0	3	3	FİZ1111
MKM2131	Engineering Mathematics	C	3	0	0	3	6	MAT1146, MAT1162
MKM2115	Entrepreneurship, Innovation and Project Management	C	1	0	0	1	2	
	Technical Elective Course-1	E	2	0	0	2	4	
	Technical Elective Course-1							
MKM2113	Material Science							
MKM2119	Manufacturing Processes							
MKM2121	Thermodynamics							

	Semester Total		21	2	1	22	30	
SIXTH SEMESTER								
Course Code	Course Name	C/E	T	P	L	C	ECTS	Course Prerequisite
MKM3120	Sensors and Measurement Techniques	C	1	1	0	1	3	MKM2124
MF3110	Interdisciplinary Project	C	0	0	0	0	0	
MKM3138	Otomatic Control	C	3	0	0	3	5	MKM2104, MKM3143
MKM3122	Microprocessors	C	2	0	1	2	3	MKM2104, MKM2124
MKM3140	Electrical Machines Laboratory	C	0	0	2	1	3	MKM3145
	Technical Elective Course-6	E	2	0	0	2	4	
	Technical Elective Course-7	E	2	0	0	2	4	
	Technical Elective Course-8	E	2	0	0	2	4	
	Technical Elective Course-9	E	2	1	0	2	4	
	Technical Elective Course-6							
MKM3118	Machine Elements							MKM2111
MKM3132	Finite Element Analysis							MKM2114, MKM2104
	Technical Elective Course-7							
MKM3124	Digital Signal Processing							
MKM3142	Smart Materials							MKM2123
MKM3110	Mechanical Vibrations							MKM3143
	Technical Elective Course-8							
MKM3136	CAD/CAM							MKM2120
MKM3112	Factory Organization							
	Technical Elective Course-9							
MKM3126	Industrial Programming							MKM3115
MKM3116	Industrial Design							MKM2120, MKM3129
	Semester Total		13	2	3	20	30	
SEVENTH SEMESTER								
Course Code	Course Name	C/E	T	P	L	C	ECTS	Course Prerequisite
MKM4139	Power Electronics and Drives	C	3	0	2	4	5	MKM1122, MKM3140
MKM4127	Elective Graduation Design Project	C	0	2	0	1	5	
MKM4137	Digital Control	C	2	0	0	2	4	MKM3138
MKM4129	Robot Vision	C	2	0	0	2	4	MKM2104
MKM4133	Professional Practice II	C	0	2	0	1	1	
SSD4101	Social Elective Course-3	E	2	0	0	2	3	

	Technical Elective Course-10	E	2	0	0	2	4	
	Technical Elective Course-11	E	2	0	0	2	4	
	Technical Elective Course-10							
MKM4105	Autonomous Systems							MKM3138
MKM4135	Mechatronics in Automotive Engineering							
	Technical Elective Course-11							
MKM4103	Computer Control with MATLAB							MKM2104, MKM3138
MKM4107	Process Control							
	Semester Total		13	4	2	16	30	
EIGHTH SEMESTER								
Course Code	Course Name	C/E	T	P	L	C	ECTS	Course Prerequisite
MKM4146	Applied Engineering	C	5	14	0	12	30	
MKM4102	Graduation Project	C	0	2	0	1	5	MF3110, MKM4127
MKM4126	Robotic Systems	C	3	0	0	3	4	MKM2104, MKM3143
MKM4110	Mobile Robot Design	C	2	0	0	2	2	MKM2120, MKM3143
SSD4202	Social Elective Course-4	E	2	0	0	2	3	
	Technical Elective Course-12	E	2	0	0	2	4	
	Technical Elective Course-13	E	2	0	0	2	4	
	Technical Elective Course-14	E	2	0	0	2	4	
	Technical Elective Course-15	E	2	0	0	2	4	
	Technical Elective Course-12							
MKM4130	Data Mining and Mechatronic System Applications with Python							MKM2104

MKM4140	Industrial Measurement Systems							MKM3120
MKM4128	Optical Systems							FIZ1112
	Technical Elective Course-13							
MKM4180	Electrical Vehicles							MKM2120, MKM3143
MKM4132	Flexible Manufacturing Systems							MKM3136
	Technical Elective Course-14							
MKM4118	Vehicle Dynamics							MKM4135
MKM4136	Renewable Energy Systems							
MKM4190	Medical Mechatronics							
	Technical Elective Course-15							
MKM4138	Hydraulic and Pneumatic Systems							MKM2110, MKM3126
MKM4140	Biomechatronic Systems							
MKM4100	Avionic Systems							MKM3120, MKM3122
	Semester Total		15	2	0	16	30	