

F.U.
Faculty of Technology
Mechatronics Engineering Department

1st Year													
FALL SEMESTER							SPRING SEMESTER						
	Lesson Code	Lesson Name	T	A	C	ECTS		Lesson Code	Lesson Name	T	A	C	ECTS
1	MAT161	Mathematics I	4	0	4	6	1	MAT162	Mathematics II	4	0	4	6
2	FİZ111	Physics I	4	0	4	6	2	FİZ112	Physics II	3	0	3	5
3	FİZ105	Physics Lab. I	0	2	1	2	3	FİZ106	Physics Lab. II	0	2	1	2
4	KİM105	Chemistry	4	0	4	6	4	YDİ108	English II	2	0	2	2
5	KİM109	Chemistry Lab.	0	2	1	2	5	TRD110	Turkish Language II	2	0	2	2
6	YDİ107	English I	2	0	2	2	6	MAT104	Linear Algebra	2	0	2	4
7	TRD109	Turkish Language I	2	0	2	2	7	MEK104	Electro technical	3	2	4	5
8	MEK101	Programming	3	2	4	2	8	MEK106	Computer Aided Drawing	2	2	3	4
9	MEK103	Introduction to Mechatronics Engineering	2	0	2	2							
Total			21	6	24	30	Total			18	6	21	30

2nd Year													
FALL SEMESTER							SPRING SEMESTER						
	Lesson Code	Lesson Name	T	A	C	ECTS		Lesson Code	Lesson Name	T	A	C	ECTS
1	AİT209	Atatürk's Principles and History of Turkish Revolution I	2	0	2	2	1	AİT210	Atatürk's Principles and History of Turkish Revolution II	2	0	2	2
2	MAT271	Differential Equation.	4	0	4	6	2	İST234	Probability and Statistics	3	0	3	4
3	MEK201	Electronics I	3	0	3	4	3	MEK202	Electronics II	3	0	3	4
4	MEK203	Circuit Analysis	3	0	3	4	4	MEK204	Electromechanical Energy Conversion Techniques	3	0	3	4
5	MEK205	Thermodynamics and Heat Transfer	3	0	3	4	5	MEK206	Machine Dynamics and Mechanism Technique	3	0	3	4
6	MEK207	Logic Circuits	2	2	3	4	6	MEK208	Fluid mechanics	3	0	3	4
7	MEK209	Engineering Mechanics	2	0	2	4	7	MEK210	Numerical Analysis	2	2	3	4
8		Social Elective I	2	0	2	2	8	MEK212	Engineering Software	2	2	3	4
Total			21	2	22	30	Total			21	4	23	30

	Social Elective I					
	MEK290	Presentation Techniques And Report Preparation	2	0	2	2
	MEK292	Productivity Management				
	MEK294	Conduct Ethics				
	MEK296	Entrepreneurship and Small Business Administration				
	MEK298	Project management				

3rd Year													
FALL SEMESTER							SPRING SEMESTER						
	Lesson Code	Lesson Name	T	A	C	ECTS		Lesson Code	Lesson Name	T	A	C	ECTS
1	MEK301	Control Systems I	3	0	3	5	1	MEK302	Control Systems II	3	0	3	5
2	MEK303	Electric Motors	2	2	3	5	2	MEK304	Control Systems Lab.	0	2	1	3
3	MEK305	Sensors and Actuators I	3	0	3	5	3	MEK306	Sensors and Actuators II	3	2	4	5
4	MEK307	Industrial Hydraulic And Pneumatic Systems	2	2	3	4	4	MEK308	Industrial Automation	2	2	3	5
5	MEK309	Material Information And Manufacturing Methods	2	0	2	4	5	MEK310	Drive Systems	2	2	3	4
6	MEK311	Microcontrollers	3	0	3	4	6	MEK312	Microcontrollers Lab.	0	2	1	3
7	MEK313	Electronic Lab.	0	2	1	3	7	MEK314	Robotics	3	0	3	5
Total			15	6	18	30	Total			13	10	18	30

4th Year													
FALL SEMESTER							SPRING SEMESTER						
	Lesson Code	Lesson Name	T	A	C	ECTS		Lesson Code	Lesson Name	T	A	C	ECTS
1	MEK403	Workplace Training	5	0	5	5	1	MEK402	Graduation project	0	2	1	5
2	MEK405	Workplace Application	0	15	8	15	2		Technical Elective I	3	0	3	6
3	MEK407	Professional Practice I	0	2	1	5	3		Technical Elective II	3	0	3	6
4	MEK409	Professional Practice II	0	2	1	5	4		Technical Elective III	3	0	3	6
							5		Technical Elective IV	2	2	3	5
							6		Social Elective II	2	0	2	2
								Technical Elective I					

	MEK440	Robot Programming	3	0	3	6	
	MEK442	Industrial Control					
	MEK444	Smart Robots					
	MEK446	Introduction to Artificial Intelligence					
	MEK448	Human Musculoskeletal Systems Biomechanics					
	Technical Elective II						
	MEK450	Numerical Control	3	0	3	6	
	MEK452	Micro System Technology					
	MEK454	Intelligent Control Systems					
	MEK456	Image processing					
	MEK458	Numerical Marking					
	Technical Elective III						
	MEK460	Computer Aided System Design	3	0	3	6	
	MEK462	Mechatronic System Design					
	MEK464	Renewable energy					
	MEK466	Engineering Materials. Inspection					
	MEK468	Automotive Mechatronics					
	Technical Elective IV						
	MEK470	Computer Aided Manufacturing	2	2	3	5	
	MEK472	Finite Element Analysis					
	MEK474	Microcontroller Applications					
	MEK476	Functional Materials and Devices					
	MEK478	Composite Structures					
	Social Elective II						
	MEK480	Engineering Economics	2	0	2	2	
	MEK482	Organizational Behavior					
	MEK484	General business					

					MEK486	Performance management				
					MEK488	Leadership and Motivation				
Total	5	19	15	30	Total		13	4	15	30

T	A	C	ECTS
127	57	156	240

TOTAL	
Theory:	127
Application:	57
Course Hours:	184
% Application	31,0