

**ATILIM UNIVERSITY DEPARTMENT OF MECHATRONICS ENGINEERING  
DOUBLE MAJOR PROGRAM FOR INDUSTRIAL ENGINEERING**

<b>FIRST YEAR; I. Semester</b>			
<b>Code for MECE</b>	<b>Course name MECE / IE</b>	<b>Code for IE</b>	<b>Comments</b>
<b>MATH 157</b>	<b>Extended Calculus I</b>	MATH 151	Replaces MATH 151
PHYS 101	Physics I	PHYS 101	
CHEM 102	Chemistry	CHEM 102	
COMPE 101	Introduction to Computers & Programming	COMPE 101	
<b>E 101</b>	<b>Fundamentals of Engineering</b>		
ENG 111*	Introduction to Communication Skills	ENG 111*	
ENG 113*	Listening and Note-taking Skills	ENG 113*	
TURK 101	Turkish Language I	TURK 101	
<b>FIRST YEAR; II. Semester</b>			
<b>Code for MECE</b>	<b>Course name MECE / IE</b>	<b>Code for IE</b>	<b>Comments</b>
<b>MATH 158</b>	<b>Extended Calculus II</b>	MATH 152	Replaces MATH 152
PHYS 102	Physics II	PHYS 102	
COMPE 102	Computer Programming	COMPE 102	
<b>MECE 102</b>	<b>Fundamentals of Mechatronics Engineering</b>		
<b>MECE 104</b>	<b>Computer Aided Engineering Drawing</b>	IE 205	Replaces IE 205
ENG 104	Communication Skills II	ENG 104	
TURK 102	Turkish Language II	TURK 102	
<b>SECOND YEAR; III. Semester</b>			
<b>Code for MECE</b>	<b>Course name MECE / IE</b>	<b>Code for IE</b>	<b>Comments</b>
MATH 275	Linear Algebra	MATH 275	
<b>MECE 203</b>	<b>Engineering Mechanics I</b>		
<b>MATE 208</b>	<b>Introduction to Materials Engineering</b>	<b>MATE 207</b>	
<b>MECE 211</b>	<b>Circuit Analysis</b>	EE 234	Replaces EE234
IE 220	Probability and Statistics / Probability and Statistics I	IE201	
HIST 101	Princ. of Atatürk & Hist. of Turk. Rev. I	HIST 101	
ENG 211	Communication Skills III	ENG 211	
<b>SECOND YEAR; IV. Semester</b>			
<b>Code for MECE</b>	<b>Course name MECE / IE</b>	<b>Code for IE</b>	<b>Comments</b>
MATH 276	Differential Equations	MATH 276	
<b>MECE 212</b>	<b>Electronic Circuits</b>		
<b>MECE 202</b>	<b>Principles of Engineering Design</b>		
<b>MECE 204</b>	<b>Engineering Mechanics II</b>		
<b>MFGE 206</b>	<b>Manufacturing Processes</b>	MFGE 206	MECE section
HIST 102	Princ. of Atatürk & Hist. of Turk. Rev. I	HIST 102	
ENG 212	Technical Report Writing and Communications	ENG 212	

THIRD YEAR; V. Semester			
Code for MECE	Course name MECE / IE	Code for IE	Comments
MECE 301	<b>Numerical Methods</b>		
MECE 303	<b>Theory of Machines</b>		
MECE 305	<b>Digital Systems</b>		
MECE 307	<b>Signals and Mechatronic Systems</b>		
IE 305	<b>Engineering Economic Analysis / Engineering Economy</b>	IE 315	IE 315 should be taken
NTE	Humanities & Social Sciences Elective	NTE (*)	
MECE 399	Summer Practice I	IE 399 (*)	
THIRD YEAR; VI. Semester			
Code for MECE	Course name MECE / IE	Code for IE	Comments
MECE 302	<b>Mechatronic Components</b>		
MECE 304	<b>Mechanical Machine Elements</b>		
MECE 306	<b>Control Systems</b>		
MECE 308	<b>Microcontrollers</b>		
MECE 310	<b>Thermodynamics and Heat Transfer</b>		
NTE	Humanities & Social Sciences Elective	NTE (*)	
FOURTH YEAR; VII. Semester			
Code for MECE	Course name MECE / IE	Code for IE	Comments
MECE 401	<b>Mechatronic Design I</b>		
MECE 403	<b>Mechatronic Instrumentation</b>		
MECE 407	<b>Undergraduate Research Project I</b>		
TE	Technical Elective	(*)	
TE	Technical Elective	(*)	
MECE 499	Summer Practice II	IE 499 (*)	
FOURTH YEAR; VIII. Semester			
Code for MECE	Course name MECE / IE	Code for IE	Comments
MECE 402	<b>Mechatronic Design II</b>		
MECE 404	<b>Intelligent Mechatronics</b>		
MECE 408	<b>Undergraduate Research Project II</b>		
TE	Technical Elective	(*)	
TE	Technical Elective	(*)	
ORY 400	Social and Cultural Activities	ORY 400	

(\*)

*Courses listed in bold fonts should be taken by IE student in addition to their regular IE curriculum.*

*Technical Electives: Two technical elective courses taken from IE curriculum may be considered as TE in the Mechatronics curriculum.*

*Summer Practices: Students must register at least one of MECE 399 or MECE 499 and obtain a S grade.*

*Non Technical Electives: Non-technical electives are the same for both departments.*

*ENG Courses: Students should register either ENG 111 or ENG 113 according to their performances in the English Qualification Examination.*