

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

<b>FIRST YEAR; I. Semester</b>			
<b>Code for MECE</b>	<b>Course name MECE / AE</b>	<b>Code for AE</b>	<b>Comments</b>
MATH 157	Extended Calculus I	MATH 157	
PHYS 101	Physics I	PHYS 101	
CHEM 102	Chemistry	CHEM 102	
<b>COMPE 101</b>	<b>Introduction to Computers &amp; Programming</b>		
<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 / AE</b>	<b>Code for AE</b>	<b>Comments</b>
MATH 158	Extended Calculus II	MATH 158	
PHYS 102	Physics II	PHYS 102	
COMPE 102	Computer Programming	COMPE 102	
<b>MECE 102</b>	<b>Fundamentals of Mechatronics Engineering</b>		
MECE 104	Computer Aided Engineering Drawing	AE 104	
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 / AE</b>	<b>Code for AE</b>	<b>Comments</b>
MATH 275	Linear Algebra	MATH 275	
MECE 203	Engineering Mechanics I	AE 201	
MATE 208	Introduction to Materials Engineering	MATE 207	
<b>MECE 211</b>	<b>Circuit Analysis</b>		
<b>IE 220</b>	<b>Probability and Statistics</b>		
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 / AE</b>	<b>Code for AE</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>		
MECE 204	Engineering Mechanics II	AE 204	
MFGE 206	Manufacturing Processes/Manuf. Tech.	MFGE 205	
HIST 102	Princ. of Atatürk & Hist. of Turk. Rev. I	HIST 102	
ENG 212	Technical Report Writing and Communications	ENG 212	

<b>THIRD YEAR; V. Semester</b>			
<b>Code for MECE</b>	<b>Course name MECE / AE</b>	<b>Code for AE</b>	<b>Comments</b>
MECE 301	Numerical Methods	AE 301	
MECE 303	Theory of Machines/ Machine Theory	AE 305	
<b>MECE 305</b>	<b>Digital Systems</b>		
<b>MECE 307</b>	<b>Signals and Mechatronic Systems</b>		
IE 305	Engineering Economic Analysis	IE 305	
NTE	Humanities & Social Sciences Elective	NTE	
MECE 399	Summer Practice I	AE 399 (*)	
<b>THIRD YEAR; VI. Semester</b>			
<b>Code for MECE</b>	<b>Course name MECE / AE</b>	<b>Code for AE</b>	<b>Comments</b>
<b>MECE 302</b>	<b>Mechatronic Components</b>		
MECE 304	Mechanical Machine Elements	AE 306	
<b>MECE 306</b>	<b>Control Systems</b>		
<b>MECE 308</b>	<b>Microcontrollers</b>		
MECE 310	Thermodynamics and Heat Transfer	AE203	
NTE	Humanities & Social Sciences Elective	NTE	
<b>FOURTH YEAR; VII. Semester</b>			
<b>Code for MECE</b>	<b>Course name MECE / AE</b>	<b>Code for AE</b>	<b>Comments</b>
<b>MECE 401</b>	<b>Mechatronic Design I</b>		
<b>MECE 403</b>	<b>Mechatronic Instrumentation</b>		
<b>MECE 407</b>	<b>Undergraduate Research Project I</b>		
TE	Technical Elective	(*)	
TE	Technical Elective	(*)	
MECE 499	Summer Practice II	AE 499 (*)	
<b>FOURTH YEAR; VIII. Semester</b>			
<b>Code for MECE</b>	<b>Course name MECE / AE</b>	<b>Code for AE</b>	<b>Comments</b>
<b>MECE 402</b>	<b>Mechatronic Design II</b>		
<b>MECE 404</b>	<b>Intelligent Mechatronics</b>		
<b>MECE 408</b>	<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 AE student in addition to their regular AE curriculum.*

*Technical Electives: Two technical elective courses taken from AE 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.*