

## Department of Mechatronics Engineering

### Undergraduate Curriculum

*ATACS Curriculum Name: "MECE-CUR-2012-2013 Güz Dönemi-2"*

*(valid for students, who enrolled the department before 2016-2017 academic year)*

Course Code	Course Name	Credit	ECTS
<b>1. Semester</b>			
PHYS101	General Physics I	4	6
MECE101	Fundamentals of Engineering	1	3
MATH157	Extended Calculus I	5	7,5
ENG101	English For Academic Purposes I	4	3,5
CEAC105	General Chemistry	4	5
TURK401	Turkish Language I	2	2
CMPE101	Introduction to Computers and Programming	3	3
<b>2. Semester</b>			
MATH158	Extended Calculus II	5	7,5
ENG102	English for Academic Purposes II	3	3,5
PHYS102	General Physics II	4	6
TURK402	Turkish Language II	2	2
CMPE102	Computer Programming	3	4
MFGE108	Computer Aided Solid Modeling	2	4
MECE102	Fundamentals of Mechatronics Engineering	1	3
<b>3. Semester</b>			
ENG201	English for Academic Purposes III	3	3
ME211	Statics and Strength of Materials	3	6
EE234	Introduction to Electrical Engineering	3	5
IE220	Probability and Statistics	3	5
MATH275	Linear Algebra	4	6
MATE207	Introduction to Materials Engineering	3	5
<b>4. Semester</b>			
MECE206	Product Development	3	5
MFGE205	Introduction to Manufacturing Processes	3	5
MECE204	Dynamics	3	6
MATH276	Differential Equations	4	6
ENG204	Report Writing Skills	2	3
EE236	Electronic Circuits	3	5
<b>5. Semester</b>			
HIST101	Principles of Atatürk and History of Turkish Revolution I	2	2
MECE303	Theory of Machines	3	6
EE303	Signals and Systems	3	7
MATH380	Numerical Methods for Engineers	3	5
EE203	Digital Circuits and Systems	4	6
MECE399	Summer Practice I	0	6
MECE-GE3FA1	General Elective	3	4

Course Code	Course Name	Credit	ECTS
6. Semester			
MECE308	Microcontrollers	3	5
MECE302	Mechatronic Components	3	5
HIST102	Principles of Atatürk and History of Turkish Revolution II	2	2
MECE306	Control Systems	3	6
ENE 203	Thermodynamics and Heat Transfer I	3	5
ME316	Machine Elements	3	7
MECE-GE3SP1	General Elective	3	4
7. Semester			
MECE403	Mechatronic Instrumentation	3	5
MECE405	Modern Control Engineering	3	6
MECE499	Summer Practice II	0	6
MECE407	Undergraduate Research Projects I	3	3
MECE401	Mechatronic Design I	3	7
MECE-AE4FA1	Area Elective	3	4
MECE-AE4FA2	Area Elective	3	4
8. Semester			
IE305	Engineering Economy	2	5
MECE408	Undergraduate Research Projects II	3	6
MECE406	Digital Control	3	5
MECE402	Mechatronic Design II	3	6
MECE404	Intelligent Mechatronics	3	5
MECE-AE4SP1	Area Elective	3	4