

DEPARTMENT OF MECHATRONICS ENGINEERING

Curriculum for the students started to the Department in and after 2016-2017 Academic Year
(Except from the students exempted from Preparatory School and started to the Department in 2015)

FIRST YEAR					
1. Semester					
Code	Name of the Course	T	A	C	ECTS
MATH 157	Extended Calculus I	4	2	5	7.5
PHYS 101	General Physics I	3	2	4	6.0
CEAC 105	General Chemistry	3	2	4	5.0
MECE 101	Fundamentals of Engineering	1	0	1	3.0
HIST 221	History of Civilization	3	0	3	3.0
ENG 101	English Communication Skills I	4	0	4	3.5
HIST111	Princ. of Atatürk & Hist. of Turk. Rev. I	2	0	2	2.0
				22	30

2. Semester					
Code	Name of the Course	T	A	C	ECTS
MATH 158	Extended Calculus II	4	2	5	7.5
PHYS 102	General Physics II	3	2	4	6.0
CMPE 102	Computer Programming	2	2	3	4.0
MECE 102	Fundamentals of Mechatronics Engineering	1	0	1	3.0
MFGE 108	Computer Aided Solid Modelling	1	3	2	4.0
ENG 102	English Communication Skills II	4	0	4	3.5
HIST 112	Princ. of Atatürk & Hist. of Turk. Rev. II	2	0	2	2.0
				21	30

SECOND YEAR					
3. Semester					
Code	Name of the Course	T	A	C	ECTS
MATH 275	Linear Algebra	4	0	4	6.0
ME 211	Statics and Strength of Materials	3	1	3	6.0
EE 234	Introduction to Electrical Engineering	3	1	3	5.0
EE 203	Digital Circuits and Systems	3	2	4	6.0
GE1	General Elective	2	0	3	4.0
ENG 201	Advanced Communications Skills	3	0	3	3.0
				20	30

4. Semester					
Code	Name of the Course	T	A	C	ECTS
MATH 276	Differential Equations	4	0	4	6.0
MECE 206	Product Development	2	2	3	5.0
MECE 204	Dynamics	3	1	3	6.0
MECE 228	Microcontrollers	2	2	3	5.0
EE 236	Electronic Circuits	3	1	3	5.0
ENG 202	Presentations Skills	3	0	3	3.0
				19	30

THIRD YEAR					
5. Semester					
Code	Name of the Course	T	A	C	ECTS
MATH 380	Numerical Methods	3	1	3	5.0
MECE 303	Theory of Machines	3	1	3	6.0
MECE 309	Mechatronic Components	2	2	3	4.0
EE 303	Signals and Systems	3	1	3	7.0
IE 220	Probability and Statistics	3	0	3	5.0
ENG 301	English for Career Development I	3	1	3	3.0
MECE 399	Summer Practice I			NC	6.0
				17	30
6. Semester					
Code	Name of the Course	T	A	C	ECTS
MECE 332	Mechatronic Instrumentation	2	2	3	5.0
MECE 306	Control Systems	3	0	3	6.0
ME 316	Machine Elements	3	1	3	7.0
AE1	Area Elective (Group A)	3	1	3	5.0
ENG 302	English for Career Development II	2	0	2	3.0
GE2	General Elective	3	0	3	4.0
				17	30

FOURTH YEAR					
7. Semester					
Code	Name of the Course	T	A	C	ECTS
MECE 401	Mechatronic Design	2	2	3	7.0
MECE 405	Modern Control Engineering	3	0	3	6.0
AE2	Area Elective (Group A)	3	0	3	5.0
AE3	Area Elective (Group B)	3	0	3	5.0
AE4	Area Elective (Group C)	3	0	3	5.0
TURK 401	Turkish Language I	2	0	2	2.0
MECE 499	Summer Practice II			NC	6.0
				17	30
8. Semester					
Code	Name of the Course	T	A	C	ECTS
MECE 408	Undergraduate Research Projects	2	2	3	6.0
MECE 432	Mechatronics Engineering Seminars	2	0	2	2.0
MECE 422	Multi-disciplinary Engineering Design	2	2	3	6.0
AE5	Area Elective (Group B)	3	0	3	5.0
AE6	Area Elective (Group C)	3	0	3	5.0
GE3	General Elective (Group Entrepreneurship)	2	0	2	4.0
TURK 402	Turkish Language II	2	0	2	2.0
				18	30
TOTAL:				151	240