

Department of Manufacturing Engineering

Undergraduate Curriculum

ATACS Curriculum Name: "MFGE-CUR-2009-2010 Güz Dönemi-1"

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

Course Code	Course Name	Credit	ECTS
1. Semester			
CHE105	General Chemistry	4	5
ENG101	English For Academic Purposes I	4	3,5
MATH151	Calculus I	5	7
MFGE101	Fundamentals of Engineering	2	2,5
MFGE121	Computer Aided Engineering Drawing I	2	4
PHYS101	General Physics I	4	6
TURK401	Turkish Language I	2	2
2. Semester			
CMPE102	Computer Programming	3	4
ENG102	English for Academic Purposes II	3	3,5
MATH152	Calculus II	5	7
ME108	Computer Aided Solid Modeling	2	4,5
MFGE102	Fundamentals of Product Design and Manufacturing Engineering	1	3,5
PHYS102	General Physics II	4	6
TURK402	Turkish Language II	2	2
3. Semester			
ENG201	English for Academic Purposes III	3	3
HIST101	Principles of Atatürk and History of Turkish Revolution I	2	2
MATE207	Introduction to Materials Engineering	3	5
MATH275	Linear Algebra	4	6
ME201	Statics	3	6
MFGE205	Introduction to Manufacturing Processes	3	5
MFGE299	Manufacturing Engineering Orientation	0	1
4. Semester			
ENE203	Thermodynamics I	3	6
ENG204	Report Writing Skills	2	3
HIST102	Principles of Atatürk and History of Turkish Revolution II	2	2
MATH276	Differential Equations	4	6
ME210	Strength of Materials	3	6
MECE204	Dynamics	3	6
MFGE202	Principles of Engineering Design	3	3
5. Semester			
ENE301	Heat Transfer	3	6
IE305	Engineering Economy	2	5
MATH380	Numerical Methods for Engineers	3	5
MECE303	Theory of Machines	3	6
MFGE303	Theory of Manufacturing Technology I (Metal Forming)	3	5
MFGE307	Theory of Manufacturing Technology II (Metal Cutting)	3	5
MFGE399	Summer Practice I	0	6

Course Code	Course Name	Credit	ECTS
6. Semester			
EE234	Introduction to Electrical Engineering	3	5
MATE320	Machine Elements	3	5
ME316	Machine Elements	3	7
MFGE310	Finite Element Analysis for Manufacturing	3	5
MFGE312	Statistical Analysis and Instrumentation	3	5
MFGE316	Theory of Manufacturing Technology III (Casting and Powder Metallurgy)	3	6
7. Semester			
MFGE401	Capstone Project I	3	9
MFGE403	Tool and Die Design	3	5
MFGE499	Summer Practice II	0	6
	Area Elective	3	5
	Area Elective	3	5
	General Elective	3	4
8. Semester			
MFGE402	Capstone Project II	3	9
MFGE404	Computer Integrated Manufacturing	3	5
	Area Elective	3	5
	Area Elective	3	5
	General Elective	3	4