

Department of Energy Systems Engineering
Undergraduate Curriculum
ATACS Curriculum Name: "ENE-CUR-2012-2013 Güz Dönemi-1"

Course Code	Course Name	Credit	ECTS
1. Semester			
ME108	Computer Aided Solid Modelling	2	4,5
CE101	Engineering Fundamentals	1	2,5
CMPE101	Introduction to Computers and Programming	3	3
TURK401	Turkish Language I	2	2
PHYS101	General Physics I	4	6
MATH151	Calculus I	5	7
ENG101	English For Academic Purposes I	4	3,5
2. Semester			
CMPE102	Computer Programming	3	4
CHE105	General Chemistry	4	5
ENE102	Fundamentals of Energy Systems Engineering	1	1,5
PHYS102	General Physics II	4	6
MATH152	Calculus I	5	7
ENG102	English For Academic Purposes II	3	3,5
3. Semester			
MATH275	Linear Algebra	4	6
ENE203	Thermodynamics	3	6
ME211	Statics and Strength of Materials	3	6
HIST101	Principles of Atatürk and History of Turkish Revolution I	2	2
ENE205	Process Calculations for Engineers	3	4
ENG201	English For Academic Purposes III	3	3
ENE201	Energy Systems I	4	9
4. Semester			
TURK402	Turkish Language II	2	2
HIST102	Principles of Atatürk and History of Turkish Revolution II	2	2
MECE204	Dynamics	3	6
EE234	Introduction to Electrical Engineering	3	5
MATH276	Differential Equations	4	6
ENE202	Energy Systems II	4	5
ENE204	Thermodynamics II	3	5
ENG204	Report Writing Skills	2	3
5. Semester			
ENE399	Summer Practice I	0	10
ENE305	Combustion	3	3
AE307	Fluid Mechanics	3	3
MATH380	Numerical Methods for Engineers	3	4
EE352	Electromechanical Energy Conversion	4	4
ENE303	Modelling Analysis and Simulation	3	2
ENE-GE3FA1	General Elective	3	4

Course Code	Course Name	Credit	ECTS
6. Semester			
MECE306	Control Systems	3	6
ENE302	Heat and Mass Transfer	3	5
IE220	Probability and Statistics	3	5
ENE306	Nuclear Energy	3	5
ENE304	Measurement and Instrumentation	3	7
ENE-AE3SP1	Area Elective	3	5
7. Semester			
ENE499	Summer Practice II	0	10
ENE403	Power Transmission and Distribution	3	5
IE305	Engineering Economy	2	5
ENE401	Energy Systems Design Project I	3	9
ENE-AE4FA1	Area Elective	3	5
ENE-AE4FA2	Area Elective	3	5
8. Semester			
ENE402	Energy Systems Design Project II	3	8
ENE406	Energy Management	3	6
ENE404	Energy and Environment	3	5
ENE-AE4SP1	Area Elective	3	5
ENE-AE4SP2	Area Elective	3	5