

FIRST YEAR									
First Semester			SU	ECTS	Second Semester			SU	ECTS
IF	100	Computational Approaches to Problem Solvi	3	5	AL	102	Academic Literacies	3	5
MATH	101	Calculus I	3	6	MATH	102	Calculus II	3	6
NS	101	Science of Nature I	4	6	NS	102	Science of Nature II	4	6
SPS	101	Humanity and Society I	3	6	SPS	102	Humanity and Society II	3	6
TLL	101	Turkish Language and Literature I	2	3	TLL	102	Turkish Language and Literature II	2	3
HIST	191	Principles of Atatürk and the History of the T	2	3	HIST	192	Principles of Atatürk and the History of the Tur	2	3
CIP	101	Civic Involvement Projects I	0	1					
Total Credit			17	30	Total Credit			17	29
SECOND YEAR									
Third Semester			SU	ECTS	Fourth Semester			SU	ECTS
CS	201	Introduction to Computing	3	6	MATH	202	Differential Equations	3	6
PROJ	201	Undergraduate Project Course	1	1	ENS	206	Systems Modeling & Control	3	6
ENS	203	Electronic Circuits 1	3	6	EE	200	Electronic Circuit Applications	3	6
ENS	202	Thermodynamics	3	6	EE	202	Electronic Cicuits 2	3	6
MATH	201	Linear Algebra	3	6	ENS	214	Dynamic	3	6
ENS	204	Mechanics	3	6	Electrive			3	6
Total Credit			16	31	Total Credit			18	36
THIRD YEAR									
Fifth Semester			SU	ECTS	Sixth Semester			SU	ECTS
DSA	210	Introduction to Data Science	3	6	ME	305	Power Electronics	3	6
ME	301	Mechanical Systems 1	3	6	ME	309	Heat & Mass Transfer	3	6
CHEM	405	Electrochemistry	3	6	ENRG	322	Battery Science and Engineering	3	6
ME	303	Control Systems Design	3	6	Elective			3	6
SPS	303	Law Ethics	3	6					
Elective			3	6					
Total Credit			18	35	Total Credit			12	24
PROJ	395	Internship Project	0	5					
FOURTH YEAR									
Seventh Semester			SU	ECTS	Eight Semester			SU	ECTS
ME	408	Mechatronic System Design	3	6	ENS	492	Graduation Project (Implementation)	3	5
ENS	491	Graduation Project (Design)	1	2	ME	408	Mechatronic System Design	3	6
ENRG	426	Battery Management Systems	3	6	Elective			3	6
Elective			3	6	Elective			3	6
Elective			3	6	Elective			3	6
Total Credit			13	26	Total Credit			15	29

Recommended electives:

- IE 309 Manufacturing Processes
- IE 402 Integrated Manufacturing Sys.
- IE 416 Additive Manufacturing
- MAT 402 Polymer Engineering II
- ME 302 Mechanical Systems II
- ME 303 Control System Design
- ME 415 Comp. Analysis & Simulation

(at least two to complete track)