

**DEPARTMENT OF AUTOMOTIV ENGINEERING
PREVIOUS UNDERGRADUATE CURRICULUM**

(valid for those students who enrolled the department between 2020-2021 and 2023-2024 academic years)

1. Semester

Course Code	Course Name	Theory	Application	ECTS
HIST111	Principles of Atatürk and History of Turkish Revolution I (in English)	2	0	2
PHYS101	General Physics I	3	2	6
HIST221	History of Civilization	3	0	3
ENG101	English For Academic Purposes I	4	0	3.5
MATH151	Calculus I	4	2	7
CHE105	General Chemistry	3	2	5
AE111	Fundamentals of Automotive Engineering	3	0	3.5
KRY111	Career Planning	1	0	1
Total		23	6	31

2. Semester

Course Code	Course Name	Theory	Application	ECTS
HIST112	Principles of Atatürk and History of Turkish Revolution II (in English)	2	0	2
PHYS102	General Physics II	3	2	6
ENG102	English for Academic Purposes II	4	0	3.5
MATH152	Calculus II	4	2	7
ME108	Computer Aided Solid Modeling	1	3	4.5
AE112	Basic Communication and Computational Tools for Automotive Engineer:	2	2	3
CMPE102	Computer Programming	2	2	4
Total		18	11	30

3. Semester

Course Code	Course Name	Theory	Application	ECTS
MATH275	Linear Algebra	4	0	6
MATE207	Introduction to Materials Engineering	3	0	5
ENG201	English for Academic Purposes III	3	0	3
ENE203	Thermodynamics I	3	0	6
ME201	Statics	3	0	6
AE207	Automotive Laboratory I	1	3	4
Total		17	3	30

4. Semester

Course Code	Course Name	Theory	Application	ECTS
MATH276	Differential Equations	4	0	6
ENG202	English for Academic Purposes IV	3	0	3
ME210	Strength of Materials	3	1	6
MECE204	Dynamics	2	2	6
EE234	Introduction to Electrical Engineering	3	1	5
AE214	Fuels and Combustion	2	2	4
Total		17	6	30

5. Semester

Course Code	Course Name	Theory	Application	ECTS
ENE301	Heat Transfer	3	1	6
MECE303	Theory of Machines	3	1	6
MATH380	Numerical Methods for Engineers	3	1	5
ENG301	English for Occupational Purposes I	3	0	3
AE307	Fluid Mechanics	3	1	6
AE399	Summer Practice I	0	0	6
	General Elective	0	0	4
Total		15	4	30

6. Semester

Course Code	Course Name	Theory	Application	ECTS
ME316	Machine Elements	3	1	7
ENG302	English for Occupational Purposes II	3	0	3
AE312	Internal Combustion Engines	3	1	5
AE308	Manufacturing and Material Technologies in Automotive Industry	3	1	5
MECE306	Control Systems I	3	0	6
	General Elective	3	0	4
Total		18	3	30

7. Semester

Course Code	Course Name	Theory	Application	ECTS
TURK401	Turkish Language I	2	0	2
IE305	Engineering Economy	2	0	5
AE431	Casptone Project in Automotive Engineering I	1	4	4
AE435	Vehicle Dynamics	3	1	5
AE499	Summer Practice II	0	0	6
	Area Elective	3	0	5
	Area Elective	2	0	5
	General Elective	3	0	4
Total		16	5	30

8. Semester

Course Code	Course Name	Theory	Application	ECTS
TURK402	Turkish Language II	2	0	2
AE432	Casptone Project in Automotive Engineering II	1	4	8
AE436	Transmission Systems and Design	3	1	5
AE434	Electric and Hybrid Vehicles	3	1	5
	Area Elective (Multidisciplinary Courses)	0	0	5
	Area Elective	3	0	5
Total		12	6	30