DEPARTMENT OF AUTOMOTIVE ENGINEERING

DOUBLE MAJOR PROGRAM FOR STUDENTS FROM MECHANICAL ENGINEERING PROGRAM UNDERGRADUATE CURRICULUM

Automotive Engineering Program		Equivalent Course from Mechanical Engineering Program			
1 st Term			1 st Term		
Course Code	Course Name	(T-A)E	Course Code	Course Name	(T-A)E
HIST111	Principles of Atatürk and History of Turkish Revolution I	(2-0)2	HIST111	Principles of Atatürk and History of Turkish Revolution I	(2-0)2
PHYS101	General Physics I	(3-2)6	PHYS101	General Physics I	(3-2)6
HIST221	History of Civilization	(3-0)3	HIST221	History of Civilization	(3-0)3
ENG101	English for Academic Purposes I	(4-0)3.5	ENG101	English for Academic Purposes I	(4-0)3.5
MATH151	Calculus I	(4-2)7	MATH151	Calculus I	(4-2)7
CHE105	General Chemistry	(3-2)5	CHE105	General Chemistry	(3-2)5
KRY111	Career Planning	(1-0)1	KRY111	Career Planning	(1-0)1
AE111	Fundamentals of Automotive Engineering	(3-0)3.5			
	Total Credi	t (23-6)31			
2 nd Term			2 nd Term		
Course Code	Course Name	(T-A)E	Course Code	Course Name	(T-A)E
HIST112	Principles of Atatürk and History of Turkish Revolution II	(2-0)2	HIST112	Principles of Atatürk and History of Turkish Revolution II	(2-0)2
PHYS102	General Physics II	(3-2)6	PHYS102	General Physics II	(3-2)6
ENG102	English for Academic Purposes II	(4-0)3.5	ENG102	English for Academic Purposes II	(4-0)3.5
MATH152	Calculus II	(4-2)7	MATH152	Calculus II	(4-2)7
ME108	Computer Aided Solid Modeling	(1-3)4.5	ME108	Computer Aided Solid Modeling	(1-3)4.5
CMPE102	Computer Programming	(2-2)4	CMPE102	Computer Programming	(2-2)4
	Basic Communication and Computational Tools for				
AE112	Automotive Engineers	(2-2)3			
	Total Credi	t(18-11)30			
		u(10-11)50			
3 rd Term			3 rd Term		
Course Code	Course Name	(T-A)E	Course Code	Course Name	(T-A)E
MATH275	Linear Algebra	(4-0)6	MATH275	Linear Algebra	(4-0)6
MATE207	Introduction to Materials Engineering	(3-0)5	MATE207	Introduction to Materials Engineering	(3-0)5
ENG201	English for Academic Purposes III	(3-0)3	ENG201	English for Academic Purposes III	(3-0)3
ENE203	Thermodynamics I	(3-0)5	ENG201 ENE203	Thermodynamics I	(3-0)5
		(5-0)0			1 (3-0)0

ME201	Statics	(3-0)6	ME201	Statics	(3-0)6
AE207	Automotive Laboratory I	(1-3)4			
	Total C	redit (17-3)30		-	L
4 th Term			4 th Term		
Course Code	Course Name	(T-A)E	Course Code	Course Name	(T-A)E
MATH276	Differential Equations	(4-0)6	MATH276	Differential Equations	(4-0)6
ENG202	English for Academic Purposes IV	(3-0)3	ENG202	English for Academic Purposes IV	(3-0)3
ME210	Strength of Materials	(3-1)6	ME210	Strength of Materials	(3-1)6
MECE204	Dynamics	(2-2)6	MECE204	Dynamics	(2-2)6
EE234	Introduction to Electrical Engineering	(3-1)5	EE234	Introduction to Electrical Engineering	(3-1)5
AE214	Fuels and Combustion	(2-2)4			
	Total C	redit (17-6)30			
5 th Term			5 th Term		
Course Code	Course Name	(T-A)E	Course Code	Course Name	(T-A)E
ENE301	Heat Transfer	(3-1)6	ENE301	Heat Transfer	(3-1)6
MECE303	Theory of Machines	(3-1)6	MECE303	Theory of Machines	(3-1)6
MATH380	Numerical Methods for Engineers	(3-1)5	MATH380	Numerical Methods for Engineers	(3-1)5
		· /	ENGD04	English for Occupational Purposes I	(3-0)3
ENG301	English for Occupational Purposes I	(3-0)3	ENG301	Inglish for Occupational Fulposes i	(3-0)3
	English for Occupational Purposes I Fluid Mechanics	(3-0)3 (3-1)6	ENG301 AE307	Fluid Mechanics	(3-1)6
ENG301		· · /			· · · ·
ENG301 AE307	Fluid Mechanics	(3-1)6	AE307	Fluid Mechanics	(3-1)6
ENG301 AE307	Fluid Mechanics Summer Practice I General Elective	(3-1)6 (0-0)6	AE307	Fluid Mechanics Summer Practice I	(3-1)6 (0-0)6
ENG301 AE307	Fluid Mechanics Summer Practice I General Elective	(3-1)6 (0-0)6 (0-0)4	AE307	Fluid Mechanics Summer Practice I	(3-1)6 (0-0)6
ENG301 AE307	Fluid Mechanics Summer Practice I General Elective	(3-1)6 (0-0)6 (0-0)4	AE307	Fluid Mechanics Summer Practice I	(3-1)6 (0-0)6
ENG301 AE307 AE399*	Fluid Mechanics Summer Practice I General Elective	(3-1)6 (0-0)6 (0-0)4	AE307 ME399*	Fluid Mechanics Summer Practice I	(3-1)6 (0-0)6
ENG301 AE307 AE399* 6 th Term	Fluid Mechanics Summer Practice I General Elective Total C	(3-1)6 (0-0)6 (0-0)4 redit (15-4)30	AE307 ME399* 6 th Term	Fluid Mechanics Summer Practice I General Elective	(3-1)6 (0-0)6 (0-0)4
ENG301 AE307 AE399* 6 th Term Course Code	Fluid Mechanics Summer Practice I General Elective Total C Course Name	(3-1)6 (0-0)6 (0-0)4 redit (15-4)30 (T-A)E	AE307 ME399* 6 th Term Course Code	Fluid Mechanics Summer Practice I General Elective Course Name	(3-1)6 (0-0)6 (0-0)4 (0-0)4
ENG301 AE307 AE399* 6 th Term Course Code ME316	Fluid Mechanics Summer Practice I General Elective Total C Course Name Machine Elements	(3-1)6 (0-0)6 (0-0)4 redit (15-4)30 (T-A)E (3-1)7	AE307 ME399* 6 th Term Course Code ME316	Fluid Mechanics Summer Practice I General Elective Course Name Machine Elements	(3-1)6 (0-0)6 (0-0)4 (0-0)4 (T-A)E (3-1)7
ENG301 AE307 AE399* 6 th Term Course Code ME316 ENG302	Fluid Mechanics Summer Practice I General Elective Total C Course Name Machine Elements English for Occupational Purposes II	(3-1)6 (0-0)6 (0-0)4 redit (15-4)30 (15-4)30 (15-4)30 (3-1)7 (3-1)7 (3-0)3	AE307 ME399* 6 th Term Course Code ME316 ENG302	Fluid Mechanics Summer Practice I General Elective Course Name Machine Elements English for Occupational Purposes II	(3-1)6 (0-0)6 (0-0)4 (0-0)4 (0-0)4 (0-0)4 (0-0)4 (0-0)4 (0-0)4 (0-0)4 (0-0)4 (0-0)4 (0-0)4 (0-0)4 (0-0)4 (0-0)6 (0
ENG301 AE307 AE399* 6 th Term Course Code ME316 ENG302	Fluid Mechanics Summer Practice I General Elective Total C Course Name Machine Elements English for Occupational Purposes II Control Systems I	(3-1)6 (0-0)6 (0-0)4 redit (15-4)30 (15-4)30 (15-4)30 (3-1)7 (3-0)3 (3-0)6	AE307 ME399* 6 th Term Course Code ME316 ENG302	Fluid Mechanics Summer Practice I General Elective Course Name Machine Elements English for Occupational Purposes II Control Systems I	(3-1)6 (0-0)6 (0-0)4 (0-0)4 (0-0)4 (3-0)4 (3-0)7 (3-0)3 (3-0)6
ENG301 AE307 AE399* 6 th Term Course Code ME316 ENG302 MECE306	Fluid Mechanics Summer Practice I General Elective Total C Course Name Machine Elements English for Occupational Purposes II Control Systems I General Elective	(3-1)6 (0-0)6 (0-0)4 redit (15-4)30 (15-4)30 (15-4)30 (15-4)30 (3-0)3 (3-0)3 (3-0)6 (3-0)4	AE307 ME399* 6 th Term Course Code ME316 ENG302	Fluid Mechanics Summer Practice I General Elective Course Name Machine Elements English for Occupational Purposes II Control Systems I	(3-1)6 (0-0)6 (0-0)4 (0-0)4 (0-0)4 (3-0)3 (3-0)3 (3-0)6

Course Code	Course Name	(T-A)E	Course Code	Course Name	(T-A)E
TURK401	Turkish Language I	(2-0)2	TURK401	Turkish Language I	(2-0)2
IE305	Engineering Economy	(2-0)5	IE305	Engineering Economy	(2-0)5
AE499*	Summer Practice II	(0-0)6	ME499*	Summer Practice II	(0-0)6
	General Elective	(3-0)4		General Elective	(3-0)4
	Area Elective **	(3-0)5			
	Area Elective **	(3-0)5			
AE431	Capstone Project in Automotive Engineering I	(1-4)4			
AE435	Vehicle Dynamics	(3-1)5			
	Total Cre	dit (17-5)30			
8 th Term			8 th Term		
8 th Term Course Code	Course Name	(T-A)E	8 th Term Course Code	Course Name	(T-A)E
	Course Name Turkish Language II	(T-A)E (2-0)2		Course Name Turkish Language II	(T-A)E (2-0)2
Course Code		· · ·	Course Code		
Course Code	Turkish Language II	(2-0)2	Course Code	Turkish Language II	(2-0)2
Course Code TURK402	Turkish Language II Area Elective (Multidisciplinary Courses)	(2-0)2 (0-0)5	Course Code	Turkish Language II	(2-0)2
Course Code TURK402 AE432	Turkish Language IIArea Elective (Multidisciplinary Courses)Capstone Project in Automotive Engineering II	(2-0)2 (0-0)5 (1-4)8	Course Code	Turkish Language II	(2-0)2
Course Code TURK402 AE432 AE436	Turkish Language IIArea Elective (Multidisciplinary Courses)Capstone Project in Automotive Engineering IITransmission Systems and Design	(2-0)2 (0-0)5 (1-4)8 (3-1)5	Course Code	Turkish Language II	(2-0)2

NOTES:

(1) General elective courses are the same for both programs.

(2) The courses listed as bold fonts are needed to be taken as double major courses.

* (3) The first summer practice should be taken from Double Major Program (Automotive Engineering Program) and the second summer practice course can be taken from Major Program (Mechanical Engineering Program)

(4) The multidiciplinary area elective course for both programs is the same.

** (5) Since Atilim University double major resolution obliges to take at least twelve (12) courses, not less than sixty (60) ECTS, for double major programs, apart from multidisiplinary area course, the remaining *three* area elective courses are needed to be taken from Automotive Engineering Department.

Total Courses:14 + Summer Practice ITotal ACTS:66.5 + 6