

AUTOMOTIVE TECHNOLOGY ENGINEERING

BACHELOR'S DEGREE | 2022 Study Plan

Unit Category	Unit Code	Unit Title	Credi Hour		Practical Hours	Fin. Crd.	Prerequisite Code
Prerequisite Requirements		English Language Level 1 * English Language Level 2 *	0 0	4 4	2 2	3 3	
Requirements	37700114	Military Sciences	3	3	0	1	
	37700110	Study Skills	3	3	Ő	3	
ompulsory University	37700111	Life Skills	3	3	0	2	
College Requirement	37700412	Career Readiness	3	3	0	3	
	37700413 37700121	Entrepreneurship skills Intermediate English	3	3	0	3	
	37700121	Foreign Languages	3	3	0	3	
	37700241	Digital Literacy	3	1	6	3	
Elective University	37700115	Digital Marketing and Social Media	3	1	6	3	
College Requirement	30332124	Culinary Art (for learners not majoring in Culinary Arts Management)	3	1	6	3	
[3 Units Selection]	30112110	Principles of Media and Journalism (for learners not majoring in Digital Media)	3	2	3	3	
	37700216	Logical Math and Critical Thinking	3	3	0	3	
	35521502 37700161	Occupational Health and Safety General Chemistry	2	2	0	2	
	37700162	General Chemistry (lab)	1	0	2	1	37700161
	37700132	Calculus (1)	3	3	0	3	
Compulsory	37700133	Calculus 2	3	3	0	3	37700132
Department	37700151	Physics 1	3	3	0	2	27700454
Requirements	37700152 37700153	Physics 1 Lab Physics 2	3	3	2	1 2	37700151 37700151
	37700154	Physics (2) Lab	1	0	2	1	37700153
	35522212	Statics	3	3	0	3	37700151
	35522213	Dynamics and Mechanical Vibration	3	3	0	1	35522212
	35522201	Engineering Measurments in Automobile	2	2	0	1	37700133
	35522202	Engineering Measurments in Automobile Lab	1	0	2	1	35522201
	35523203	Vibrations and harshness in Automobiles	2	2	0	2	35522213
	35523204	Vibrations and harshness in Automobiles Lab	2	0	4	1	35523203
	35524205	Modeling, simulation and their applications in vehicles		2	0	2 1	37700133+35522209
	35524206 35523207	Modeling, simulation and their applications in vehicles Lab Vehicle Control Systems	2	2	4	1 2	35524205 35522201
	35523208	Vehicle Control Systems Lab	2	0	4	1	35523207
	35522209	Science and Strength of materials and their applications in cars	2	2	0	2	35522212
	35522210	Science and Strength of materials and their applications in cars/Lab	1	0	2	1	35522209
	35522211	Mechanical Drawings	2	0	4	1	35521214
	35525303	Automotive Software Engineering	2	2	0	2	35523304
	35521214	Engineering Drawings	2	0	4	1	-
	35525405	Maintenance of the vehicle tire range	2	2	0	2	35522419
	35523101 35523102	Thermal Engineering and its Applications	2	2	0	2 1	37700161+37700133
	35523102	Thermal Engineering Lab Fluids and Hydraulic and Pneumatic Power Systems	2	2	0	2	35523101 37700153
	35523104	Fluids and Hydraulic and Pneumatic Power Systems Lab	1	0	2	1	35523103
	35523105	Internal Combustion Engines	2	2	0	2	35523101
	35523106	Internal Combustion Engines Lab	1	0	2	1	35523105
	35522301	Principles of Electrical and Electronic Circuits	2	2	0	2	37700153
	35522302	Principles of Electrical and Electronic Circuits Lab	1	0	2	1	35522301
Compulsory Program	35522419	Automotive Engineering	2	2	0	2	35523105
(Specialism)	35522420 35523304	Labrotary and Workshops of Automobiles Embedded systems and their applications in vehicles	2	0	4	1 2	35522419 35522301
Requirements	35525403	Vehicle Structures and care	1	0	2	1	35522419
	35524501	Fundamentals of Spare Parts Management, Maintenance Centers and Customer Service	3	2	2	3	35522401+35522420
	35524402	Automobiles Diagnostics, Maintenance and Repair	2	0	4	2	35522419
	35521215	Engineering Workshops	1	0	2	1	-
	35524409	Air Conditioning Control Systems in Vehicles	2	2	0	2	35522419
	35524410	Automotive Air Conditioning Control Systems Laboratory	1	0	2	1	35524409
	35524411	Automotive Emission Control (Diesel & Gasoline)	2	2	0	2	35524402
	35524412	Automotive Emission Control Laboratory (Diesel & Gasoline)	2	0	4	1	35524411
	35523305	Automotive Electricity & Electronics	2	2	0	2	35522301
	35523306 35524406	Automotive Electricity & Electronics Laboratory Brake systems in cars	2	0	4	1 2	35523305 35522419
	35524400	Automotive Brake Systems Laboratory	1	0	2	1	35524406
	35524413	Suspension, steering and driving systems in cars	2	2	0	2	35522419
	35524414	Automotive Suspension and Steering Systems Laboratory	1	0	2	1	35524413
	35525417	Hybrid and Electric Vehicle Systems	3	3	0	2	35523305
	35525418	Hybrid and Electric Vehicle Systems Laboratory	2	0	4	1	35525417
	35525601	Graduation Project (1)	3	1	4	1	-
	35525415	Power Transfer Systems in Vehicles	2	2	0	1	35522419
	35525416 35522401	Laboratory of Power Transfer Systems in Vehicles Periodic and preventive maintenance of vehicles	2	0	6	2	35525415 35522419
	35524408	Diesel engines and modern fuel systems	2	0	4	1	35522301
	35525602	Graduation Project (2)	3	Ő	6	1	35525601
	35525701	Field Training	6	0	12	2	-
	35523421	Automotive oils and liquids	3	3	0	3	35522401
	35523307	Signal Processing and Digital Control in Vehicles	3	3	0	3	35523207
Elective Program	35524502	Fleet Management	3	3	0	3	35522419
(Specialism)	35525216	Formula One Cars	3	3	0	3	35524205
Requirements	35524422	Autonomous Driving Systems	3	3	0	3	35524413
[3 Units Selection]	35523308 35525309	Wired and wireless networks in cars Electronic systems and high-voltage batteries in vehicles	3	3	0	3	35525303 35523305
	35524503	Management and planning of car maintenance workshops	3	3	0	3	35524501
	35525423	Special Topics in Automotive Technology	3	3	0	3	-
	37700142	Computer Skills	2	0	4	3	BA-CS 99
Supportive Skills	37700236	Advanced Mathematics	3	3	0	2	37700133
	35523504	Engineering Economics	2	2	0	1	35524501
			160	102	124	135	
Iniversity Requirements	BA-AR 99	Arabic 99	0	3	0	3	Learners who pass the placeme

	BA-AR 99	Arabic 99	0	3	0	3	Learners who pass the placement
University Requirements [ADDITIONAL UNITS]	BA-CS 99	Computer Skills 99	0	1	6	3	test will be exempted from the
[]	BA-ENG99	English 99	0	4	2	3	course.
			160	110	132	144	

* English Language Levels	A1-BA	Elementary Englsih	0	4	2	3	
	A2-BA	Pre-Intermediate English	0	4	2	3	Learners have to attend 2 levels
	B2-BA	Upper Intermediate English	0	4	2	3	out of this list based on their initia
	C1-BA	Advanced English	0	4	2	3	placement test result.
	C2-BA	Proficiency (English)	0	4	2	3	



AUTOMOTIVE TECHNOLOGY ENGINEERING

BACHELOR'S DEGREE | 2022 Advisory Plan

		First Courseton										
		First Semester	Credit	Theory	Prct.	Second Semester						
	Unit Code	Unit Title	Hrs.	Hrs.	Hrs.	Unit Code	Unit Title	Hrs.	Hrs.	Prct. Hrs.		
	BA-ENG99	English 99	0	4	2		English Language Level 1	0	4	2		
				3	0	37700111 37700153	Life Skills	3	3	0		
1		Calculus 1 Physics 1	3	3	0	37700153	Physics 2 Calculus 2	3	3	0		
YEAR 1	37700151	Physics 1 General Chemistry	2	2	0	37700133	Engineering Drawing	2	3	4		
⋝		Physics (1) Lab	1	0	2		Statics	3	3	0		
	35521215			0	2	35522419	Automotive Engineering	2	2	0		
		Engineering Workshops 1 0 2 35522419 Automotive Engineering Principles of Electrical and Electronic Circuits 2 2 0 37700162 General Chemistry Lab		1	0	2						
						35522302 Principles of Electrical and Electronic Circuits Lab		1	0	2		
	Total		15	17	6		Total	18	18	10		
-		Second Semester	-									
	First Semester Unit Code Unit Title			Credit Theory Prct. Hrs. Hrs. Hrs.			Unit Title	Credit Hrs.	Theory Hrs.	Prct. Hrs.		
	onic couc		Hrs.	Hrs.	Hrs. 2	Unit Code BA-CS 99		Hrs.	Hrs.	Hrs. 6		
	27700114	English Language Level 2 Military Sciences	3	4	2	BA-CS 99 37700121	Computer Skills 99 Intermediate English	3	4	2		
	37700114		3	3	0	37700121	Elective 1: Program (Specialism) Requirements	3	4	2		
2	35522211	Elective 1: University College Requirement 5522211 Mechanical Drawing		0	4	35522202	Engineering Measurments in Automobile Lab	1	0	2		
YEAR 2			2	2		35522210		1	0	2		
×					0		Science and Strength of materials and their applications in cars/Lab					
		Labrotary and Workshops of Automobiles	2	0	4	37700236	Advanced Mathematics	3	3	0		
		Engineering Measurments in Automobile	2	2	0	35522401	Periodic and preventive maintenance of vehicles	3	0	6		
	37700154 35522213	Physics (2) Lab Dynamics and Mechanical Vibration	1	0	2	35523105 35523101	Internal Combustion Engines	2	2	0		
	35522213					35523101	Thermal Engineering and its Applications Total	18	12	18		
	Total 18 14 12					_		18	12	18		
	First Semester			Theory	Prct.		Second Semester	Credit	Theory	Prct.		
	Unit Code	Unit Title	Credit Hrs.	Hrs.	Hrs.	Unit Code	Unit Title	Hrs.	Hrs.	Hrs.		
	BA-AR 99	Arabic 99	0	3	0	37700413	Entrepreneurship skills	3	3	0		
	37700412	Career Readiness	3	3	0		Elective 2: Program (Specialism) Requirements	3				
~		Elective 2: University College Requirement	3			35523204	Vibrations and harshness in Automobiles Lab	-	0	4		
YEAR 3		Thermal Engineering Lab Fluids and Hydraulic and Pneumatic Power Systems	2	0	2	35523208 35523104	Vehicle Control Systems Lab Fluids and Hydraulic and Pneumatic Power Systems Lab	2	0	4		
YE/	35523105	Internal Combustion Engines Lab	1	0	2	35523304	Embedded systems and their applications in vehicles	2	2	0		
	35523305	Automotive Electricity & Electronics	2	2	0	35523306	Automotive Electricity & Electronics Laboratory	2	0	4		
	35523207	Vehicle Control Systems	2	2	0	35524413	Suspension, steering and driving systems in cars	2	2	0		
	37700142	Computer Skills	2	0	4							
	35523203	Vibrations and harshness in Automobiles	2	2	0							
		Total	18	14	8		Total	17	7	14		
7		First Semester	_				Second Semester	<u> </u>		_		
	Unit Code Unit Title			Theory Hrs.	Prct. Hrs.	Unit Code		Credit Hrs.	Theory Hrs.	Prct. Hrs.		
		Elective 3: University College Requirement	Hrs. 3	nis.	nis.		Elective 3: Program (Specialism) Requirements	3	nrs.	nis.		
	35523504	Engineering Economics	2	2	0	35524501	Fundamentals of Spare Parts Management, Maintenance Centers and	3	2	2		
							Customer Service					
/EAR 4	35524414	Automotive Suspension and Steering Systems Laboratory	1	0	2	35524412	Automotive Emission Control Laboratory (Diesel & Gasoline)	2	0	4		
EAI	35524406 35524411	Brake systems in cars Automotive Emission Control (Diesel & Gasoline)	2	2	0	35524407 35525416	Automotive Brake Systems Laboratory Laboratory of Power Transfer Systems in Vehicles	1	0	2		
~		Diesel engines and modern fuel systems	2	0	4	35525405	Maintenance of the vehicle tire range	2	2	4		
	35525415	Power Transfer Systems in Vehicles	2	2	0	35525303	Automotive Software Engineering	2	2	0		
	35524402	Automobiles Diagnostics, Maintenance and Repair	2	0	4	35524206	Modeling, simulation and their applications in vehicles Lab	2	0	4		
	35524205	Modeling, simulation and their applications in vehicles	2	2	0			-				
		Total	18	10	10		Total	17	6	16		
	First Semester						Second Semester					
	Unit Code	Init Code Unit Title			Prct.	Unit Code	Unit Title	Credit	Theory	Prct.		
S		Hybrid and Electric Vehicle Systems	Hrs.	Hrs.	Hrs. 0		Graduation Project (2)	Hrs.	Hrs.	Hrs. 6		
YEAR	35525403	Vehicle Structures and care	1	0	2	35525701	Field Training	6	0	12		
i μi		Graduation Project (1)	3	1	4	35525418	Hybrid and Electric Vehicle Systems Laboratory	2	0	4		
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۲	35524409	Air Conditioning Control Systems in Vehicles	2	2	0	35524410	Automotive Air Conditioning Control Systems Laboratory	1	0	2		
۲	35524409	Air Conditioning Control Systems in Vehicles Total	2	2 6	0	35524410	Automotive Air Conditioning Control Systems Laboratory Total	1 12	0 0	2 24		