

Department : Automotive and Marine Technology

**Program: Automotive Technology**

**Major Core Courses (42 Credits)**

Code	No.	Course Name	Cr.	Hrs.	Theo.	Lab.	Field	Pre-req.
65	120	Statics	2	3	1	2		76/105
65	122	Thermodynamics	3	4	2	2		56/113
65	124	Mechanics skill workshop	1	3		3		
65	126	Fluid Mechanics	2	3	1	2		56/113
65	128	Automotive Material Technology	2	3	1	2		
65	129	Automotive Engines Technology	3	5	2	3		
65	250	Engineering Drawing	2	3	1	2		65/133
65	256	Internal Combustion Engines	3	4	2	2		65/122
65	257	Automotive Fuel Systems	3	4	2	2		65/129
65	258	Automotive Powertrain Technology	3	5	2	3		
65	259	Automotive Chassis Technology	3	5	2	3		65/258
65	260	Automotive Electrical and Electronics sys	3	4	2	2		65/129
65	261	Automotive Emission and Control	2	3	1	2		65/257
65	356	Vehicle dynamic	3	4	2	2		65/120
65	357	Automotive Driveability and Diagnosis	3	4	2	2		65/260
65	399	Field Training	4	16			16	30/162
			42	73	23	34	16	

**General Core Courses (18 Credits):**

Code	No.	Course Name	Cr.	Hrs.	Theo.	Lab.	Field	Pre-req.
30	102	Technical English	3	3	3	0	0	30/99
30	162	Technical Report Writing	3	3	3	0	0	30/102
30	171	Communication Skills	3	3	3	0	0	30/102
30	99	English Language	0	5	5	0	0	
56	113	Basic Physics	3	4	2	2	0	
76	105	Mathematics (1)	3	3	3	0	0	
76	106	Mathematics (2)	3	3	3	0	0	76/105
			18	19	17	2	0	

**General Compulsory Courses (6 Credits)**

Code	No.	Course Name	Cr.	Hrs.	Theo.	Lab.	Field	Pre-req.
1	101	Islamic Culture	2	2	2	0	0	
65	133	Introduction to Automotive Engineering T	2	2	2	0	0	
66	134	Occupational Safety	2	2	2	0	0	
			6	6	6			

**Major Elective Courses (6 Credits)**

Code	No.	Course Name	Cr.	Hrs.	Theo.	Lab.	Field	Pre-req.
65	153	Transportation Economics	2	3	1	2		76/105
65	154	Heavy Equipment Technology	2	2	2			65/129
65	155	Alternative Energy Sources	2	2	2			
65	208	Automotive Accident Analysis	2	2	2			65/120
65	235	Automotive HVAC Systems	2	3	1	2		65/122
65	264	Modern Automotive Systems	2	3	1	2		65/257
65	265	Automotive Engine Tribology	2	2	2			65/126
65	266	Chassis Dynamometer and Engine Testing	2	3	1	2		65/258
65	268	Diesel Systems Technology	2	3	1	2		65/257
65	269	Hybrid and Electric Vehicles	2	3	1	2		65/260
65	350	Projects	2	3	1	2		65/257
65	358	High Performance Engines	2	3	1	2		65/256

**General Elective Courses (3 Credits)**

Code	No.	Course Name	Cr.	Hrs.	Theo.	Lab.	Field	Pre-req.
3	112	Work Ethics and Loyalty	3	3	3	0	0	
7	141	Art Education (1)	1	2		2	0	
7	142	Art Education (2)	1	2		2	0	07/141
8	110	Physical Education	1	2		2	0	
10	104	Research and Libraries	1	2		2	0	
13	151	Music Education	1	2		2	0	
15	114	Industrial Psychology	2	2	2	0	0	
18	101	Spanish Language	2	3	1	2	0	
21	164	Accounting	2	2	2	0	0	
22	104	Small Projects Management	2	2	2	0	0	
25	166	Industrial Economics	2	2	2	0	0	
30	107	General French Language (1)	2	3	1	2	0	
57	102	Introduction of Contracts and Specification	3	3	3	0	0	
60	129	Cybersecurity Culture	3	4	2	2	0	
64	268	Creativity and Design in Technology	2	3	1	2	0	
65	132	Vehicles and Traffic Safety	3	3	3	0	0	
65	205	Automotive Mechanics	3	3	3	0	0	
66	135	Energy and Water Conservation	3	3	3	0	0	
79	103	Oil Culture	3	3	3	0	0	

Total	CH	Hrs
	75	107