

University of Babylon/ College of Engineering/Almussayieb

Department of Automotives/ Plan of the B.Sc. Degree

First Year\ First Semester

No	Course code	Subject	Hours/week			
			Theo.	Prac.	Tut.	Units
1	UREC110	English Language	1	-	1	1
2	UREC111	Human rights & Democracy	1	-	-	1
3	MATH112	Mathematics I	3	-	1	3
4	CREC113	Engineering Drawing & Descriptive Geometry I	2	3	-	3
5	AEREC114	Electrical Engineering	2	2	-	3
6	AEREC115	Metallurgy	2	2	-	3
7	AEREC116	Manufacturing Processes	3	3 (W. Shops)	-	4
Total		7	14	10	2	19

Total number hours per week= 26

First Year\ Second Semester

No	Course code	Subject	Hours/week			
			Theo.	App.	Tut.	Units
1	UREC120	Arabic language	1	-	-	1
2	UREC121	Introduction to Computer Programming	2	2	-	3
3	MATH122	Mathematics II	3	-	1	3
4	AEREC123	Engineering Mechanics (Statics)	4	-	2	4
5	AEREC124	Engineering Drawing II	1	3	-	2
6	AEREC125	Automobile Electrical, Electronics and Instrumentation Systems	2	2	-	3
7	AEREC126	Automobile Materials	2	-	-	2
8	AEREC127	Automobiles Technology I (Engines)	1	2((Automobiles W. shop)	-	2
Total		8	16	9	3	20

Total number hours per week= 28

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No	Course code	Subject	Hours/week			
			Theo	Prac.	Tut	Units
1	UREC210	Computer Programming, I (FORTRAN)	2	2	-	3
2	MATH211	Engineering Mathematics I	2	-	1	2
3	AEREC212	Mechanics of Materials	4	2	2	5
4	AEREC213	Fluid Mechanics	3	2	1	4
5	AEREC214	Mechanical Construction, I (with AutoCAD of 20% weight)	1	3- Drawing Hall 2- AutoCAD	-	3
6	AEREC215	Automobiles Technology II (Power Transmission + suspension System)	1	2 (Automobiles W. shop)	-	2
Total		6	13	13	4	19

Total number hours per week= 30

Second Year\ Second Semester

No	Course code	Subject	Hours/week			
			Theo.	App.	Tut	Units
1	UREC220	English Language	1	-	1	1
2	UREC221	Computer Programming II (FORTRAN)	2	2	-	3
3	MATH222	Engineering Mathematics II	2	-	1	2
4	AEREC223	Engineering Mechanics II (Dynamics)	4	-	2	4
5	AEREC224	Automobile Pneumatic & Hydraulic Systems	2	-	1	2
6	AEREC225	Thermodynamics	4	2	2	5
7	AEREC226	Mechanical Construction, II (with Solid Works of 20% weight)	1	3- Drawing Hall 2-Solid Works	-	3
Total		7	16	9	7	20

Total number hours per week= 32

Third Year

1 st Semester					2 nd Semester				
Subject	units	Theo	Tut	Lab	Subject	units	Theo	Tut	Lab
Heat Transfer I	3	2	1	2	Heat Transfer II	3	2	1	2
Mechanical Element Design I	2	2	1	-	Design of Machine System II	2	2	1	-
Theory of Machines	3	2	1	2	Theory of Vehicles	3	2	1	2
Corrosion and coating	2	2	-	-	Fuel and combustion	2	2	-	-
Aerodynamic	2	2	-	-	Tribology	2	2	-	-
Internal Combustion Engines I	3	2	1	2	Internal Combustion Engines II	3	2	1	2
Engineering Analyses	2	2	1	-	Numerical Analyses	2	2	1	-
Vehicle Maintenance II	2	1	1-	2	Vehicle Technology II	2	1	1	2
Total	19	29			Total	19	29		

Four Year

1 st Semester					2 nd Semester				
Subject	units	Theo	Tut	Lab	Subject	units	Theo	Tut	Lab
Mechanical Vibration I	3	2	1	2	Mechanical Vibration II	3	2	1	2
Hydraulic Systems	2	2	-	-	Design & Selection of Materials	2	2	-	-
Measurement systems	3	2	1	2	Control systems	3	2	1	2
Vehicle Design I	2	2		-	Vehicle Design II	2	2		-
CAE I	2	1	-	2	CAE II	2	1	-	2
Automobile Air Conditioning I	3	2	1	2	Automobile Air Conditioning II	3	2	1	2
Industrial Engineering I	2	2	-	-	Eng. Project	2	1		2
Eng. Project	2	1		2	Total	17	25		
Total	19	27							