College of Engineering – University of Duhok

B.Sc. in Mechanical Engineering Courses "Bologna Program"

First Year						
1 st Semester		2 nd Semester				
EM1101	Engineering Mechanics – Statics*	EM1201	Engineering Electricity			
EM1102	Calculus (1)	EM1202	Calculus (2)			
EM1103	Computer Skills (+Lab)	EM1203	Computer Programming (+Lab)			
EM1104	Engineering Drawing (+Lab)	EM1204	English Language (2)			
EM1105	English Language (1)	EM1205	Kurdology			
EM1106	Academic Debate	EM1206	Manufacturing Processes & Workshop			

Second Year						
3 rd Semester		4 th Semester				
EM2101	Engineering Dynamics	EM2201	Strength of Materials *			
EM2102	Engineering Mathematics	EM2202	Differential Equations			
EM2103	Thermodynamics (+Lab)	EM2203	Thermodynamic Applications **			
EM2104	Mechanical Drawing (+Lab)	EM2204	Mechanical Assembly Drawing (+Lab)			
EM2105	Fluid Statics (+Lab)	EM2205	Fluid Dynamics (+Lab)			
EM2106	Mechanics of Materials	EM2206	Dynamics of Rigid Body (+Lab)			

Third Year							
5 th Semester		6 th Semester					
EM3101	Theory of Machine (+MATLAB)	EM3201	Machine Mechanism				
EM3102	Internal Combustion Engines	EM3202	Heat Engines Performance				
EM3103	Engineering Analysis	EM3203	Numerical Analysis				
EM3104	Heat Transfer (1) (+Lab)	EM3204	Heat Transfer (2) (+Lab)				
EM3105	Engineering Metallurgy	EM3205	Mechanical Vibration (+ANSYS Lab)				
EM3106	Gas Dynamics	EM3206	Turbomachinery				

Fourth Year						
7 th Semester		8 th Semester				
EM4101	Mechanical Design	EM4201	Machine Elements Design			
EM4102	Principles of Air Conditioning	EM4202	Refrigeration and A/C Systems			
EM4103	Control Engineering & Instrumentation	EM4203	Internship			
EM4104	Engineering Power Plants**	EM4204	Renewable Energies			
EM4105	Engineering Economy & Management	EM4205	Engineering Project II***			
EM4106	Engineering Project I***					