

B.Sc. in Water Resources Engineering Program Courses

First Year					
First Semester		Unit	Second Semester		Unit
EW1101	Engineering Mechanics I	3	EW1201	Engineering Mechanics II	3
EW1102	Mathematics I	3	EW1202	Mathematics II	3
EW1103	Computer Fundamentals	2	EW1203	Computer Programming	2
EW1104	Engineering Drawing	2	EW1204	Engineering Geology	2
EW1105	Academic Debate	4	EW1205	Kurdology	4
EW1106	General English	2	EW1206	Technical English	2

Second Year					
First Semester		Unit	Second Semester		Unit
EW2101	Strength of Materials I	2	EW2201	Strength of Materials II	2
EW2102	Mathematics III	3	EW2202	Mathematics IV	3
EW2103	Surveying I	3	EW2203	Surveying II	3
EW2104	Fluid Mechanics I	3.5	EW2204	Fluid Mechanics II	3.5
EW2105	Water Quality & Pollution	2	EW2205	Concrete Technology	3
EW2106	Engineering Statistics	2	EW2206	Building Construction	2

Third Year					
First Semester		Unit	Second Semester		Unit
EW3101	Engineering Analysis	2.5	EW3201	Numerical Methods	2.5
EW3102	Open Channel Hydraulics	3	EW3202	Hydraulics of Pipeline Systems	3
EW3103	Soil Mechanics I	2.5	EW3203	Soil Mechanics II	2.5
EW3104	Theory of Structures	2	EW3204	Design of Concrete Structures	3
EW3105	Principles of Engineering Hydrology	3	EW3205	Surface & Subsurface Hydrology	3
EW3106	Irrigation Principles	3	EW3206	Irrigation Systems Design	3

Fourth Year					
First Semester		Unit	Second Semester		Unit
EW4101	Design of Hydraulic Structures I	3	EW4201	Design of Hydraulic Structures II	3
EW4102	Dams Engineering I	3	EW4202	Dams Engineering II	3
EW4103	Water Resources Management and Economy	2	EW4203	Quantity Survey	2
EW4104	Construction Methods	2	EW4204	Drainage Engineering	2
EW4105	Water Supply Engineering	3	EW4205	Environmental and Sanitary Engineering	3
EW4106	Foundation Engineering	3	EW4206	Analysis of Water Resources Systems	3
EW4107	Engineering Project	2	EW4207	Engineering Project	2