

First Year

Semester I						Semester II					
Category	Subject	Hours			Units	Category	Subject	Hours			Units
		Theoretical	Tutorial	Practical				Theoretical	Tutorial	Practical	
College requirement	Calculus-I	3	1	---	3	College requirement	Calculus-II	3	1	---	3
College requirement	Physics	3		3	4	Department requirement	Applied Physics	3		2	4
University requirement	Arabic Language	2		---	2	Department requirement	Engineering Geology	2	1	3	3
College requirement	Chemistry	3		3	4	College requirement	Engineering Drawing	2	2	3	3
College requirement	Fundamentals of Electrical Eng.	2		2	2	College requirement	Engineering Mechanics (Static)	3	1	---	3
University requirement	English Language-I	2		---	2	College requirement	Computer Science	2	1	3	3
University requirement	Human rights	1		---	1	University requirement	Democracy	1		---	1
Total Hours and Units		16	1	8	18	Total Hours and Units		16	6	11	20

Second Year

Semester I						Semester II					
Category	Subject	Hours			Units	Category	Subject	Hours			Units
		Theoretical	Tutorial	Practical				Theoretical	Tutorial	Practical	
College requirement	Calculus-III	3	1	---	3	College requirement	Calculus-IV	3	1	---	3
Department requirement	Engineering Mechanics (Dynamics)	3	1	---	3	Department requirement	Open Channels	2	1	---	2
Department requirement	Fluid Mechanics	2	1	3	3	Department requirement	Concrete Technology	3		3	3
Department requirement	Engineering surveying-I	2		3	2	Department requirement	Engineering surveying-II	2		2	2
Department requirement	Building Materials Technology	2		2	3	Department requirement	Soil Physics	2	2	2	3
University requirement	English Language-II	2		---	2	Department requirement	Strength of Materials	3		2	3
Department requirement	Computer Programming	2		2	3	Department requirement	Construction for Water Resources Projects	2		---	2
Total Hours and Units		16	3	10	19	Total Hours and Units		17	4	9	18

Third Year

Semester I						Semester II					
Category	Subject	Hours			Units	Category	Subject	Hours			Units
		Theoretical	Tutorial	Practical				Theoretical	Tutorial	Practical	
Department requirement	Engineering Hydrology	2	1	---	2	Department requirement	Ground Water Hydrology	2	1	-	2
Department requirement	Soil Mechanics	2	2	3	3	Department requirement	Foundations Engineering	2	2	-	2
Department requirement	Environmental Engineering	2	1	3	3	Department requirement	Hydraulic Structures	2	1	2	3
College requirement	Engineering Statistics	3		---	3	College requirement	Engineering Numerical Methods	2	1	2	3
Department requirement	Theory of Structures	3		---	3	Department requirement	Water Quality Control	2	1	2	3
Department requirement	Engineering Management	3	2	---	3	Department requirement	Sanitary Engineering	2	1	-	2
Department requirement	Hydraulic Machines	3	1	---	3	Department requirement	Reinforced Concrete Design	2		----	3
						University requirement	English Language-III	2		---	2
Total Hours and Units		18	7	6	20	Total Hours and Units		16	7	6	20

Fourth Year

Semester I						Semester II					
Category	Subject	Hours			Units	Category	Subject	Hours			Units
		Theoretical	Tutorial	Practical				Theoretical	Tutorial	Practical	
Department requirement	Engineering Optimization	3	1	---	3	Department requirement	Methods of Construction and Estimation	3	1	---	3
Department requirement	Irrigation Engineering	3	1	---	3	Department requirement	Drainage Engineering	3	1	---	3
Department requirement	Design of Dams	3	1	---	3	Department requirement	Safety and Operation of Dams	3	1	---	3
University requirement	Leadership Skills and professional Ethics	2		---	2	Department requirement	Water Resources Planning and Management	3	1	---	3
Department requirement	Design and Evaluation of On-farm Irrigation systems	2	1	---	2	Department requirement	Design of Reinforced Concrete Hydraulic Structures DWE Elective Class	3	1		3
Department requirement	Remote Sensing and GIS Applications in Hydrology DWE Elective Class	3	1	-	3	Department requirement	Senior Design II	2		3	3
Department requirement	Senior Design I	2	1	3	3	University requirement	English Language-IV	2		---	2
Total Hours and Units		18	6	3	19	Total Hours and Units		19	5	3	20