

CIVIL ENGINEERING ADVISING AND COURSE SELECTION GUIDE (PLAN 2021)

First year/First Semester

Course No.	Course Title	Detailed distribution of credit hours		Credit hours	Prerequisite	Concurrent requirement
		Lecture	Practical			
1701081136	General Physics (1)	3	0	3	-	
110102103	General Physics Lab. (1)	0	3	1	-	1701081136
110108101	Calculus (1)	3	0	3	-	
121601101	Arabic Language	3	0	3	Level test in Arabic language or 121601099	
121602101	English Language	3	0	3	Level test in English language or 121602099	
1714041118	Citizenship Education	3	0	3	-	
Total		16				

First year/Second Semester

Course No.	Course Title	Detailed distribution of credit hours		Credit hours	Prerequisite	Concurrent requirement
		Lecture	Practical			
110102102	General Physics (2)	3	0	3	1701081136	-
110101102	Calculus (2)	3	0	3	110108101	-
1701081137	Principle of General Chemistry	3	0	3	-	-
110103108	Principle of General Chemistry Lab.	0	3	1	-	1701081137
-	University Elective	3	0	3	-	-
1714041117	Military Sciences	3	0	3	-	-
Total		16				

Second year/First Semester

Course No.	Course Title	Detailed distribution of credit hours		Credit hours	Prerequisite	Concurrent requirement
		Lecture	Practical			
110400201	Manual Engineering Drawing	1	3	2	-	-
110400101	Engineering Workshop	0.5	2	1	-	-
110401211	Statics	3	0	3	110108101 & 110102101	-
110101201	Calculus (3)	3	0	3	110101102	-
110101203	Ordinary Differential Equations (1)	3	0	3	110101102	-
110108112	Computer Programming	3	0	3	Level test of Computer Skills or 110108099	-
110403242	Statistics and Probability	3	0	3	110101102	-
Total		18				

Second year/Second Semester

Course No.	Course Title	Detailed distribution of credit hours		Credit hours	Prerequisite	Concurrent requirement
		Lecture	Practical			
1804011231	Introduction to Physical Geology	2	1	3	1701081137	-
110400203	Ethics and Communication Skills	3	0	3	111405110	-
2104011212	Structural Mechanics	3	-	3	110401211	-
2104021330	Strength of Materials Lab.	0	3	1	2104051312 or 2104011212 or 2104021230	-
110400202	Computer Aided Engineering Drawing	0	3	1	110400201	-
1704001303	Numerical Analysis	3	0	3	110101203 & 110108112	-
2104031302	Engineering Economic	2	0	2	110403242	-
Total		16				

Third year/First Semester

Course No.	Course Title	Detailed distribution of credit hours		Credit hours	Prerequisite	Concurrent requirement
		Lecture	Practical			
110402310	Fluid Mechanics (1)	3	0	3	110101203	-
110401365	Surveying	3	0	3	110400202	-
2104011366	Surveying lab	0	3	1	-	2104011365
2104011337	Building Materials	3	0	3	110103107	2104011212
110401339	Building Materials Lab.	0	3	1	-	110401337
2104011315	Structural Analysis	3	0	3	200401121 2	-
2104011367	Transportation and Engineering Planning	3	0	3	210401136 5	-
Total		17				

Third year/Second Semester

Course No.	Course Title	Detailed distribution of credit hours		Credit hours	Prerequisite	Concurrent requirement
		Lecture	Practical			
210401136 8	Highway Engineering and Design	3	0	3	2104011367	-
110406260	Applied Mathematics	3	0	3	11101203	-
110401356	Hydraulics	3	0	3	110402310	-
110401358	Fluid Mechanics and Hydraulics Lab.	0	3	1	-	110401356
180401133 6	Geotechnical Engineering	3	0	3	1804011231	-
110401338	Geotechnical Engineering Lab.	0	3	1	-	110401336
210401134 6	Construction Project Management	3	0	3	2104011337	-
Total		17				

Fourth year/First Semester

Course No.	Course Title	Detailed distribution of credit hours		Credit hours	Prerequisite	Concurrent requirement
		Lecture	Practical			
110401466	Pavement Materials and Design	3	0	3	110401337	-
110401467	Highway Engineering lab.	0	3	1	-	110401466
110401421	Reinforced Concrete (1)	3	0	3	110401337 & 110401315	-
110401425	Steel Structure	3	0	3	110401315	-
110401455	Wastewater Engineering	3	0	3	110401356	-
-	University Elective	3	0	3	-	-
Total	16					

Fourth year/Second Semester

Course No.	Course Title	Detailed distribution of credit hours		Credit hours	Prerequisite	Concurrent requirement
		Lecture	Practical			
2104011468	Traffic Engineering	3	0	3	2104011368	-
110401348	Construction Contracts Administration	3	0	3	110401337	-
110401422	Reinforced Concrete (2)	3	0	3	110401421	-
110401454	Engineering Hydrology	2	0	2	110402310	-
110401435	Foundation Engineering	3	0	3	1804011336	-
-	Department Elective	3	0	3	-	-
Total	17					

Fourth year/Summer Semester

Course No.	Course Title	Detailed distribution of credit hours		Credit hours	Prerequisite	Concurrent requirement
		Lecture	Practical			
150401500	Practical Training	3	0	3	Student must pass (112) credit hours including (0400203)	-

Fifth year/First Semester

Course No.	Course Title	Detailed distribution of credit hours		Credit hours	Prerequisite	Concurrent requirement
		Lecture	Practical			
-	University Elective	3	0	3	-	-
110401598	Graduation Project (1)	0	3	1	Cr. Hrs. 120 & Dept Consent	-
110401456	Environmental Engineering	2	3	3	110401455	-
-	Department Elective	3	0	3	-	-
-	Department Elective	3	0	3	-	-
Total	13					

Fifth year/Second Semester

Course No.	Course Title	Detailed distribution of credit hours		Credit hours	Prerequisite	Concurrent requirement
		Lecture	Practical			
110401599	Graduation Project (2)	0	6	2	110401598	-
-	University Elective	3	0	3	-	-
-	Department Elective	3	0	3	-	-
-	Department Elective	3	0	3	-	-
Total	11					