



Zarqa University
Faculty of Engineering
Civil Engineering Department
Program's Study Plan 9

First Year:

First Semester

Course No.	Course Title	Credit Hours	Prerequisite
0300101	Calculus I	3	-
0300121	General Physics I	3	-
0302111	General Physics Laboratory (1)	1	0300121*
0902100	Introduction to Engineering and Professional Ethics	1	-
0905100	Engineering Workshops 1	1	-
0200110	Military Science	3	-
0200103	English Language I	3	0200151
Total		15	

Second Semester

Course No.	Course Title	Credit Hours	Prerequisite
0300102	Calculus 2	3	0300101
0300122	General Physics 2	3	0300121
0302112	General Physics Lab 2	1	0300122*
0300131	General Chemistry I	3	
0300133	General Chemistry lab 1	1	0300131*
1501110	Computer Programming 1	3	
0200102	Arabic Language 1	3	0200150
Total		17	

Second Year:**First Semester**

Course No.	Course Title	Credit Hours	Prerequisite
0902209	Surveying	3	0300102
0902210	Surveying Lab.	1	0902209*
0905103	Engineering Drawing	2	-
0902221	Static	3	0302121
0902262	Engineering Geology	3	0302121
0200104	National Education	3	-
Total		15	

Second Semester

Course No.	Course Title	Credit Hours	Prerequisite
	University Elective Course 1	3	-
0200111	Islamic Education and Contemporary Issues	3	
0905201	Advanced Engineering Mathematics I	3	0300102
0905213	Mechanics of Materials	3	0902221
0905214	Mechanics of Materials Lab.	1	0905213*
0902231	Concrete Technology	3	0902221*
0902233	Concrete Technology Lab.	1	0902231*
Total		17	

Third Year:**First Semester**

Course No.	Course Title	Credit Hours	Prerequisite
0902305	Engineering Statistics	3	0905201
0902364	Geotechnical Engineering	3	0902262 + 0905213
0902365	Geotechnical Engineering lab.	1	0902364*
	University Elective Course 2	3	
0902300	Drawing with AutoCAD	1	0905103
0905311	Dynamics	3	0902221
0902343	Structural Analysis 1	3	0905213
Total		17	

Second Semester

Course No.	Course Title	Credit Hours	Prerequisite
0905343	Fluid Mechanics for Civil Engineering	3	0905311
0902345	Structural Analysis 2	3	0902343
0902348	Reinforced Concrete 1	3	0902231+ 0902343*
0902332	Building Construction	3	0902231
0904304	Numerical Analysis	3	0905201
	University Elective Course 3	3	
Total		18	

Fourth Year:**First Semester**

Course No.	Course Title	Credit Hours	Prerequisite
0904306	Technical Writing and Communication Skills	2	0200103
0902442	Reinforced Concrete 2	3	0902348+0902345*
0902444	Steel Structure	3	0902345
0902451	Hydrology and Hydraulics	3	0905343
0902453	Hydraulics lab.	1	0902451*
0902471	Highway Engineering	3	0902209+0902364
0906402	Engineering Economics and Management	3	100 cr. hr.
Total		18	

Second Semester

Course No.	Course Title	Credit Hours	Prerequisite
0902405	Civil Drawing	1	0902300+0902348+0902332
0902455	Waste water and Sanitary Engineering	3	0902451*
0902555	Water Supply Engineering	3	0905343
0902476	Highway Material and Asphalt lab.	1	0902474*
0902501	Project Managements	3	0906402
0902474	Pavement Design	3	0902471
0902400	Practical Training for Civil Engineering	3	115 cr, hr. Summer
Total		17	

**Practical Training: for a period of 280 Hrs. In an engineering entity after successful completion of 115 credit hours of program's requirements.

Fifth Year:**First Semester**

Course No.	Course Title	Credit Hours	Prerequisite
0902477	Traffic Engineering	3	0902471
0902562	Foundation Engineering	3	0902348+0902364
0902505	Quantities, Contracts and specification	3	0902348+0902332
0905582	Graduation Project (1)	1	0902400
	Department Elective Course (1)	3	
	University Elective Course 4	3	
Total		16	

Second Semester

Course No.	Course Title	Credit Hours	Prerequisite
0902574	Airport and Railway Engineering	3	0902474*
0902589	Graduation Project (2)	3	0905582
	Department Elective Course (2)	3	
	Department Elective Course (3)	3	
Total		12	