

Zarqa University
Faculty of Engineering
Civil Engineering Department
Program's Study Plan 10

2024-2023

First Year:

First Semester

Course No.	Course Title	Cr.hr	Prerequisite
0300101	Calculus 1	3	
0300121	General Physics 1	3	
0302111	General Physics Lab1	1	0300121*
0902100	Introduction to Engineering and Professional Ethics	1	
0905100	Engineering Workshops (1)	1	
0200110	Military Sciences	3	
0200106	Communication Skills (English)	3	0200151,0202001
Total		15	

Second Semester

Course No.	Course Title	Cr.hr	Prerequisite
0300102	Calculus 2	3	0300101
0300122	General Physics 2	3	0300121
0302112	General Physics Lab 2	1	0300122*
0300131	General chemistry 1	3	
0300133	General chemistry lab 1	1	0300131*
1501119	Programming For Engineers	3	
0200105	Communication Skills (Arabic)	3	0200150, 0201001
Total		17	

Second Year:

First Semester

Course No.	Course Title	Cr.hr	Prerequisite
0902209	Surveying	3	0300101
0902210	Surveying lab	1	0902209*
0905103	Engineering Drawing	2	
0902221	Statics	3	0300121
0902262	Engineering geology	3	0300121
0200104	National Education	3	
0400202	Pioneering and Innovation	1	
Total		16	

Second Semester

Course No.	Course Title	Cr.hr	Prerequisite
	Optional University Requirement1	3	
0200111	Islamic culture and Modern Issues	3	
0905201	Advance engineering mathematics	3	0300102
0905213	Mechanics of material	3	0902221
0905214	Mechanics of material lab	1	0905213*
0902231	Concrete technology	3	0902221*
0902233	Concrete technology lab	1	0902231*
Total		17	

Third Year:

First Semester

Course No.	Course Title	Cr.hr	Prerequisite
0902305	Engineering statistics	3	0300102
0902364	Geotechnical engineering	3	0902262 ,0905213
0902365	Geotechnical engineering lab	1	0902364*
	Optional University Requirement2	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	Cr.hr	Prerequisite
0905343	Fluid mechanics for Civil engineering	3	0902221
0902345	Structural analysis 2	3	0902343
0902348	Reinforced concrete 1	3	0902343*
0902332	Building construction	3	0902221
0904304	Numerical analysis	3	0905201
0200153	Life Skills	1	
0200154	Leadership and social Responsibility	1	
Total		17	

Fourth Year:

First Semester

Course No.	Course Title	Cr.hr	Prerequisite
0904306	Technical Writing and Communication Skills	2	0200106
0902442	Reinforced concrete 2	3	0902348*
0902444	Steel structure	3	0902343
0902451	Hydrology and hydraulics	3	0905343
0902453	hydrology and hydraulics lab	1	0905343*
0902471	Highway engineering	3	0902209
0906402	Engineering economics and Management	3	90 cr.hr.
Total		18	

Second Semester

Course No.	Course Title	Cr.hr	Prerequisite
0902405	Engineering drawing	1	0902300
0902455	Waste water and sanitary engineering	3	0902451*
0902555	Water supply engineering	3	0905343
0902476	Highway material and asphalt lab	1	0902474*
0902501	Project management	3	0902332
0902474	Pavement design	3	0902471
0902400	Practical training for Civil engineering	3	115cr,hr. Summer
Total		17	

تدريبات عمليه تدوم 8 اسابيع في معهد هندسي معتمد من القسم

Fifth Year:

First Semester

Course No.	Course Title	Cr.hr	Prerequisite
0902477	Traffic engineering	3	0902471
0902562	Foundation engineering	3	0902348,0902364
0902505	Quantities, contracts and specifications	3	0902348
0902582	Graduation project (1)	1	115 cr.hr.
	Optional Specialization Requirement1	3	
	Optional University Requirement4	3	
Total		16	

Second Semester

Course No.	Course Title	Cr.hr	Prerequisite
0902545	Earthquake Engineering	3	0902442*
0902589	Graduation project (2)	3	0902582,0902400
	Optional Specialization Requirement2	3	
	Optional Specialization Requirement3	3	
Total		12	