



Curriculum of Bachelor Degree in Civil Engineering

Guidelines for the Bachelor Degree in Civil Engineering / Surveying and Geomatics

First Year					
First semester			Second Semester		
Course No.	Course title	Cr.H	Course No.	Course title	Cr.H
٣٠٢٠٢١٠١	Calculus 1	3	٣٠٢٠٢١٠٢	Calculus 2	3
٣٠٢٠١١٠١	General Physics 1	3	٣٠٢٠٦١٠١	General Chemistry	3
٣٠٢٠١١١١	General Physics 1 Lab	1	٣٠٢٠٦١١١	General Chemistry Lab	1
AAL101	Applied Arabic Language	3	AEL102	Applied English Language (2)	3
AEL101	Applied English Language (1)	3	BSE0102	Engineering Workshop	1
CS101	Computer Skills and E-Learning	1	٣٠٢٠١١٠٢	General Physics 2	3
	University Requirement	3	٣٠٢٠١١١٢	General Physics 2 Lab	1
			BSE0205	Engineering Drawing	2
Total		١٧	Total		١٧

Second Year					
First semester			Second Semester		
Course No.	Course title	Cr.H	Course No.	Course title	Cr.H
30202203	Differential equations	3	CIE0214	Engineering Geology	2
BSE0201	Programming for Engineers	3	CIE0216	Engineering Geology Lab	1
SIE0213	Surveying	3	MEE0212	Dynamics	3
CIE0215	Surveying Lab	1	MEE0214	Strength of Materials	3
BSE0203	Technical Writing and Professional Ethics	3	BSE0202	Statistics and Probabilities for Engineers	3
CIE0221	Statics	3	NE101	National Education and University Behavior	3
Total		١٦	Total		١٥



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Third Year					
First semester			Second Semester		
Course No.	Course title	Cr.H	Course No.	Course title	Cr.H
CIE2381	Route and Construction Surveying	2	CIE2382	Aerial Photogrammetry and Remote Sensing	3
CIE0331	Structural Analysis I	3	CIE2384	Geographical Information System	٢
CIE0333	Properties of Concrete	3	CIE2386	Geographical Information System Practical	١
CIE0335	Properties of Concrete Lab	1	CIE0342	Hydraulics	3
CIE0367	Geotechnical Engineering	3	CIE0344	Hydraulics Lab	1
CIE0369	Geotechnical Engineering Lab	1	CIE0346	Water Treatment	3
MEE0307	Fluid Mechanics	3	BSE0306	Numerical Methods	3
Total		16	Total		16

Fourth Year					
First semester			Second Semester		
Course No.	Course title	Cr.H	Course No.	Course title	Cr.H
CIE0433	Reinforced Concrete Design I	3	CIE0476	Quantities, Contracts, and Specifications	3
CIE2483	Programming for Geomatics Applications	2	CIE2482	Geodetic Positioning and Global Navigation Satellite System	2
CIE2481	Mathematical Geodesy and Adjustment	3	CIE2484	Geodetic Positioning and Global Navigation Satellite System (Practical)	1
CIE0455	Highway Engineering	3	CIE0438	Steel Structures	3
CIE0447	Engineering Hydrology	3	CIE0452	Pavement Design	3
BSE0401	Engineering Economy	3	CIE0454	Pavement Design Lab	1
			CIC0410	Civil Engineering Drawing	1
				Technical Elective III	3
Total		17	Total		17

Summer Semester		
CIE0490	Field Training passed 115 Credit hours	Total 3



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Fifth Year					
First semester			Second Semester		
Course No.	Course title	Cr.H	Course No.	Course title	Cr.H
CIE0537	Reinforced Concrete Design II	3	-	Technical Elective II	3
CIE0575	Project management	3	CIE2582	Cadastral Surveys and Land Administration	1
CIE0563	Foundation Engineering	3	CIE0592	Graduation Project 2	3
CIE0591	Graduation Project 1	1	35001101	Military Science	3
IEC101	Innovation, Entrepreneurship, and Creativity	2		Technical elective III	3
-	University Requirement	3			
Total		14	Total		13

Al-Balqa Applied University

Civil Engineering Department



Established 1997

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جامعة البلقاء التطبيقية

قسم الهندسة المدنية