

Civil Engineering Department (لائحة 2017)

Major Sheet (2017- 2018)

Course Code	Course Name	Prerequisite	Credit hour	Lec	Lab	Tut
Semester One (Preparatory Level)						
BAS 011	Mathematics1	-----	3	2	0	2
BAS 021	Physics1	-----	3	2	2	1
BAS 031	Mechanics-1	-----	2	2	0	2
BAS 041	Engineering Chemistry	-----	3	2	2	1
MED 011	Engineering Drawing & Projection	-----	3	1	3	3
HUM 012	English Language 1	HUM x52	2	1	0	2
HUM 081	Computer Skills	-----	1	1	4	0
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Semester Two..... (Preparatory Level)						
BAS 012	Mathematics2	BAS 011	3	2	0	2
BAS 022	Physics 2	BAS 021	3	2	2	1
BAS 032	Mechanics-2	BAS 031	2	2	0	2
MED 021	History of Engineering & Technology	-----	1	1	0	0
MED 022	Principles of Manufacturing Engineering	-----	2	2	1	1
HUM 013	English Language 2	HUM 012	2	1	0	2
HUM 011	Arabic Language	-----	2	2	0	0
HUM -A1	General Elective A		2	2	0	0
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Semester Three..... (First Level)						
---- A1	Institute Elective A	-----	2	2	0	1
---- A2	Institute Elective A	-----	2	2	0	1
CIS 112	Structural Analysis 1	BAS 031,BAS 012	3	2	0	2
BAS 111	Mathematics 3	BAS 012	3	2	0	2
CIS 151	Geology	BAS 041	2	2	0	1
CIP 111	Civil Drawing	MED 011	3	1	0	4
HUM -B1	General Elective B	-----	2	2	0	1
			17			
Semester Four..... (First Level)						
---- A3	Institute Elective A	-----	2	2	0	1
BAS 211	Mathematics 4	BAS 111	3	2	0	2
CIS 141	Behavior of Materials	-----	3	2	2	1
CIS 110	Structural Mechanics	CIS 112	3	2	0	2
CIP 121	Engineering Surveying 1	BAS 012	3	2	1	1
IEN 131	Monitoring & Quality Control System	-----	1	1	0	0
HUM -A2	General Elective A		2	2	0	0
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Semester Five..... (Second Level)						
CIS 211	Structural Analysis 2	CIS 112 , CIS 110	3	2	0	2
BAS 212	Statistics & Probability Theory	BAS 012	3	2	0	2
ARC 130	Building Construction	MED 011	3	1	0	4
CIS 241	Concrete Technology	CIS 141	3	2	1	1
CIW 110	Fluid Mechanics	BAS 022 , BAS 031	2	2	1	1
HUM -A3	General Elective A		2	2	0	0
			16			
Semester Six..... (Second Level)						
xxx 291	Field Training – 1	-----	1	0	6	0
CIW 112	Hydraulics	CIW 110	3	2	1	1
CIS 251	Soil Mechanics	CIS 151	3	2	1	1
CIS 311	Structural Analysis 3	CIS 211	3	2	0	2
CIW 113	Hydrology	CIW 110	2	1	0	2
CIS 221	Design of Concrete Structures 1	CIS 112, CIS 110	3	2	0	2
HUM -A4	General Elective A		2	2		
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Semester Seven..... (Third Level)						
CIS 321	Design of Concrete Structures 2	CIS 221, CIS 211	3	2	0	2
CIS 231	Design of steel structure1	CIS 112 , CIS 110	3	2	0	2
CIW 211	Irrigation and Dismissal Engineering	CIW 112	3	2	0	2
CIW 231	Environmental Engineering	-----	3	2	0	2
CIW 331	Environmental Impacts of Projects	-----	1	1	0	0
IEN 351	Engineering Economics	-----	2	2	0	1
CIS 351	Foundations Engineering 1	CIS 251, CIS 221	3	2	0	2
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Semester Eight..... (Third Level)						
xxx 391	Field Training 2	-----	1	0	6	0
CIS 331	Design of Steel Structures 2	CIS 231	3	2	0	2
CIS -A1	General Civil Elective A		3	2	0	2
CIS -A2	General Civil Elective A		3	2	0	2
CIP 341	Highway Engineering	-----	3	2	0	2
HUM 351	Professional Ethics	-----	1	1	0	0
HUM 352	Human Rights	-----	1	1	0	0
IEN 314	Project Management	-----	2	2	0	1
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Semester Nine..... (Fourth Level)						
CIS 361	Construction Management	IEN 314	3	2	0	2
CIS -A3	General Civil Elective A		3	2	0	2
CIS -A4	General Civil Elective A		3	2	0	2
CIS -A5	General Civil Elective A		3	2	0	2
HUM 182	Analysis & Research Skills		2	1	0	2
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Semester Ten..... (Fourth Level)						
CIS -B	General Civil Elective B (Project)		6	1	0	10
CIS -A6	General Civil Elective A		3	2	0	2
CIS -A7	General Civil Elective A		3	2	0	2
HUM 111	Technical Report Writing	HUM 013	2	1	0	2
CIS -A8	General Civil Elective A		3	2	0	2
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Institute Requirements (Elective A) (Select 6 Credit Hrs)		Prerequisite	Credit hour	Lec	Lab	Tut
CIS 111	Principles of Construction & Building Engineering	-----	2	2	0	1
ARC 111	Arts & Architecture		2	2	0	1
ELP 111	Principles of Electrical Engineering	BAS 022	2	2	0	1
ELE 121	Principles of Electronic Engineering	-----	2	2	0	1
MED 111	Principles of Design & Manufacturing Engineering	-----	2	2	0	1
MEP 111	Principles of Mechanical Power Engineering	BAS 022, BAS 031	2	2	0	1
Major Requirements (Elective A) (Select 24 Credit Hrs.)						
CIS 411	Structural Dynamics	CIS 311	3	2	0	2
CIS 322	Design of Wall Bearing Structures	CIS 221	3	2	0	2
CIS 421	Design of Concrete Structure 3	CIS 321	3	2	0	2
CIS 431	Design of Bridges	CIS 331 , CIS 321	3	2	0	2
CIS 432	High Rise Buildings	CIS 311, CIS 321	3	2	0	2
CIS 341	Repair & Strengthening of Structure	CIS 221	3	2	0	2
CIS 451	Foundations Engineering 2	CIS 351	3	2	0	2
CIS 461	Construction Engineering	CIS361	3	2	0	2
CIW 311	Design of Irrigation Structures	CIW211	3	2	0	2
CIW 312	Design of Irrigation Structures-2	CIW311	3	2	0	2
CIP321	Engineering Surveying 2	CIP 121	3	2	1	1
CIW 332	Sanitary Engineering	CIW 110	3	2	0	2
CIW 441	Transportation Engineering	CIP341	3	2	0	2
CIW 451	Harbor Engineering	CIS 351	3	2	0	2
CIS 362	Construction planning and scheduling	CIS 361	3	2	0	2
CIS 363	Project Specifications and Bids	CIS 361	3	2	0	2
CIP 442	Analysis and design of Pavement system	CIW 341	3	2	0	2
CIP 443	Traffic Engineering	CIW 341	3	2	0	2

General Requirements (Elective A) (Select 8 Credit Hrs)						
HUM x51	Communication in Education 1 (starting for 2014 students)	Based on English placement test	2	1	0	2
HUM x52	Communication in Education 2 (starting for 2014 students)	Based on English placement test	2	1	0	2
HUM x62	Music Appreciation		2	2	0	0
HUM x71	Introduction to History of Civilization		2	2	0	0
HUM x72	Trends in Contemporary Arts		2	2	0	0
HUM x73	Recent Egypt's History		2	2	0	0
HUM x74	Heritage of Egyptian Literature		2	2	0	0
HUM x75	Arab & Islamic Civilization		2	2	0	0
HUM x76	Literary Appreciation		2	2	0	0
General Requirements (Elective B) (Select 2 Credit Hrs)						
HUM 121	Introduction to Accounting		2	2	0	0
HUM 221	Business Administration		2	2	0	0

NOTE:

- . The 8 civil major elective courses will be in packages related to graduation Project:
- I. Structural
 - II. Construction Management
 - III. Public Works
 - IV. Water And Irrigation

Structural	Construction Management	Public Works	Water and Irrigation
Design of Concrete Structure 3	Design of Concrete Structure 3	Design of Concrete Structure 3	Design of Concrete Structure 3
Foundations Engineering 2	Repair & Strengthening of Structure	Transportation Engineering	Design of Irrigation Structures
Design of Bridges	Construction planning and scheduling	Engineering Surveying 2	Foundations Engineering 2
High Rise Buildings	Project Specifications and Bids	Sanitary Engineering	Harbor Engineering
+ 4 Of other Elective courses	+ 4 Of other Elective courses	+ 4 Of other Elective courses	+ 4 Of other Elective courses