



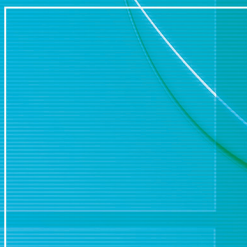
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Majmaah University
Civil and Environmental
Engineering Curriculum

Structural Engineering

First Semester

Code	Course	Credits	Contact hours	Pre-request
ARAB 101	Arabic Language Skills	2	(2-0-0)	-
MATH 105	Differential Calculus	3	(3-1-0)	-
PHY 103	General Physics	4	(3-1-2)	-
GE 101	Fundamentals of Engineering Technology	2	(1-0-2)	-
GE 102	Fundamentals of Engineering Drawing	3	(1-0-4)	-
GE 103	Engineering Mechanics (Statics)	3	(3-1-0)	-
		17		

First Semester

Code	Course	Credits	Contact hours	Pre-request
IC 101	Introduction to Islamic Culture	2	(2,0,0)	
MATH 204	Differential Equations	3	(3-1-0)	MATH 106 MATH 107
CE 210	Soil Mechanics and Foundation Engineering 1	3	(2-1-2)	CE 101
CE 214	Structural Analysis 1	3	(3-1-0)	GE 103
CE 240	Hydraulics 1	3	(2-1-2)	GE 108
CE 370	Surveying 1	3	(2-1-2)	MATH 107
		17		

First Semester

Code	Course	Credits	Contact hours	Pre-request
IC 102	Islam and Society Development	2	(2-0-0)	-
GE 306	Engineering Report Writing	2	(2-0-0)	STAT 201
CE 311	Soil Mechanics and Foundation Engineering 2	3	(2-1-2)	CE 210
CE 360	Environmental Engineering 1	2	(2-0-0)	GE 105
CE 362	Water Supply and Sewage Engineering	2	(2-1-0)	CE 241
CE 371	Surveying 2	3	(2-1-2)	CE 370
CE 380	Highway and Traffic Engineering	3	(3-1-0)	CE 370
		17		

Second Semester

Code	Course	Credits	Contact hours	Pre-request
MATH 106	Integral Calculus	3	(3-1-0)	MATH 105
MATH 107	Algebra and Analytical Geometry	3	(3-1-0)	
GE 108	Engineering Mechanics (Dynamics)	3	(3-1-0)	GE 103
GE 105	Engineering Chemistry	3	(3-1-0)	-
CE 101	Engineering Geology	2	(1-0-2)	-
CE 102	Civil Engineering Drawing	3	(1-0-4)	GE 102
		17		

Second Semester

Code	Course	Credits	Contact hours	Pre-request
STAT 201	Statistics and Probability	3	(3-1-0)	-
CEN 209	Computer Programming for Civil Engineering	3	(2-0-2)	-
CE 217	Reinforced Concrete Design 1	3	(3-2-0)	CE 214
CE 212	Properties and Strength of Materials 1	3	(2-1-2)	-
CE 215	Structural Analysis 2	3	(3-1-0)	GE 214
CE 241	Hydraulics 2	3	(2-1-2)	GE 240
		18		

Second Semester

Code	Course	Credits	Contact hours	Pre-request
ARAB 103	Arabic Editing	2	(2-0-0)	-
MATH 254	Numerical Methods	3	(3-1-0)	MATH 204
CE 313	Properties and Strength of Materials 2	3	(2-1-2)	CE 212
CE 316	Structural Analysis 3	3	(3-1-0)	CE 215
CE 318	Reinforced Concrete Design 2	3	(3-2-0)	CE 217
CE 320	Steel Structures Design 1	3	(3-2-0)	CE 214
		17		

CE 399	Summer Training	0	90 Credit Hours must be completed
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First Semester

Code	Course	Credits	Contact hours	Pre-request
IC 103	Economic System in Islam	2	(2-0-0)	-
GE 407	Engineering Economy	2	(0 +1 +2)	-
CE 425	Computer Applications in Structural Engineering	2	(1-0-2)	CEN 209
CE 419	Reinforced Concrete Design 3	3	(3-2-0)	CE 318
CE 421	Steel Structures Design 2	3	(3-2-0)	CE 320
CE 42-	Elective Course (1)	3	(3-2-0)	-
CE 498	Senior Design (1)	2	(1-0-2)	-
		17		

Second Semester

Code	Course	Credits	Contact hours	Pre-request
IC 104	Fundamentals of the Political System in Islam	2	(2-0-0)	-
GE 408	Project Management	2	(2-1-0)	GE 407
CE 422	Methods and Equipment of Construction	2	(2-1-0)	-
CE 423	Contracts and Specifications	2	(2-1-0)	-
CE 424	Building Construction	3	(3-1-0)	CE 419
CE 43-	Elective Course (2)	3	(3-1-0)	-
CE 499	Senior Design (2)	2	(1-0-2)	CE 498
		16		

First Year

Second Year

Third Year

Fourth Year

Surveying Engineering

First Semester

First Year

Code	Course	Credits	Contact hours	Pre-request
ARAB 101	Arabic Language Skills	2	(2-0-0)	-
MATH 105	Differential Calculus	3	(3-1-0)	-
PHY 103	General Physics	4	(3-1-2)	-
GE 101	Fundamentals of Engineering Technology	2	(1-0-2)	-
GE 102	Fundamentals of Engineering Drawing	3	(1-0-4)	-
GE 103	Engineering Mechanics (Statics)	3	(3-1-0)	-
		17		

Second Semester

Code	Course	Credits	Contact hours	Pre-request
MATH 106	Integral Calculus	3	(3-1-0)	MATH 105
MATH 107	Algebra and Analytical Geometry	3	(3-1-0)	
GE 108	Engineering Mechanics (Dynamics)	3	(3-1-0)	GE 103
GE 105	Engineering Chemistry	3	(3-1-0)	-
CE 101	Engineering Geology	2	(1-0-2)	-
CE 102	Civil Engineering Drawing	3	(1-0-4)	GE 102
		17		

First Semester

Second Year

Code	Course	Credits	Contact hours	Pre-request
IC 101	Introduction to Islamic Culture	2	(2-0-0)	-
MATH 204	Differential Equations	3	(3-1-0)	MATH 106 MATH 107
CE 210	Soil Mechanics and Foundation Engineering 1	3	(2-1-2)	CE 101
CE 214	Structural Analysis 1	3	(3-1-0)	GE 103
CE 240	Hydraulics 1	3	(2-1-2)	GE 108
CE 370	Surveying 1	3	(2-1-2)	MATH 107
		17		

Second Semester

Code	Course	Credits	Contact hours	Pre-request
STAT 201	Statistics and Probability	3	(3-1-0)	-
CEN 209	Computer Programming for Civil Engineering	3	(2-0-2)	-
CE 217	Reinforced Concrete Design 1	3	(3-2-0)	CE 214
CE 212	Properties and Strength of Materials 1	3	(2-1-2)	-
CE 215	Structural Analysis 2	3	(3-1-0)	GE 214
CE 241	Hydraulics 2	3	(2-1-2)	GE 240
		18		

First Semester

Thirst Year

Code	Course	Credits	Contact hours	Pre-request
IC 102	Islam and Society Development	2	(2-0-0)	-
GE 306	Engineering Report Writing	2	(2-0-0)	STAT 201
CE 311	Soil Mechanics and Foundation Engineering 2	3	(2-1-2)	CE 210
CE 360	Environmental Engineering 1	2	(2-0-0)	GE 105
CE 362	Water Supply and Sewage Engineering	2	(2-1-0)	CE 241
CE 371	Surveying 2	3	(2-1-2)	CE 370
CE 380	Highway and Traffic Engineering	3	(3-1-0)	CE 370
		17		

Second Semester

Code	Course	Credits	Contact hours	Pre-request
ARAB 103	Arabic Editing	2	(2-0-0)	-
MATH 254	Numerical Methods	3	(3-1-0)	MATH 204
CE 372	Geodetic Surveying	3	(2-1-2)	CE 371
CE 381	Highway Materials and Construction	3	(2-1-2)	CE 380
CE 318	Reinforced Concrete Design 2	3	(3-2-0)	CE 217
CE 320	Steel Structures Design 1	3	(3-2-0)	CE 214
		17		

CE 399	Summer Training	0	90 Credit Hours must be completed
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First Semester

Fourth Year

Code	Course	Credits	Contact hours	Pre-request
IC 103	Economic System in Islam	2	(2-0-0)	-
GE 407	Engineering Economy	2	(2-1-0)	-
CE 473	Computer Applications in Surveying Engineering	2	(1-0-2)	CEN 209
CE 474	Photogrammetric	3	(3-1-0)	CE 372
CE 482	Railway Engineering	3	(3-1-0)	CE 371
CE 47-	Elective Course (5)	3	(3-1-0)	-
CE 498	Senior Design (1)	2	(1-0-2)	-
		17		

Second Semester

Code	Course	Credits	Contact hours	Pre-request
IC 104	Fundamentals of the Political System in Islam	2	(2-0-0)	-
GE 408	Project Management	2	(2-1-0)	GE 407
CE 422	Methods and Equipment of Construction	2	(2-1-0)	-
CE 423	Contracts and Specifications	2	(2-1-0)	-
CE 475	Remote sensing	3	(3-1-0)	CE 474
CE 48-	Elective Course (6)	3	(3-1-0)	-
CE 499	Senior Design (2)	2	(1-0-2)	CE 498
		16		

Water and Environmental Engineering

First Semester

Code	Course	Credits	Contact hours	Pre-request
ARAB 101	Arabic Language Skills	2	(2-0-0)	-
MATH 105	Differential Calculus	3	(3-1-0)	-
PHY 103	General Physics	4	(3-1-2)	-
GE 101	Fundamentals of Engineering Technology	2	(1-0-2)	-
GE 102	Fundamentals of Engineering Drawing	3	(1-0-4)	-
GE 103	Engineering Mechanics (Statics)	3	(3-1-0)	-
		17		

Second Semester

Code	Course	Credits	Contact hours	Pre-request
MATH 106	Integral Calculus	3	(3-1-0)	MATH 105
MATH 107	Algebra and Analytical Geometry	3	(3-1-0)	
GE 108	Engineering Mechanics (Dynamics)	3	(3-1-0)	GE 103
GE 105	Engineering Chemistry	3	(3-1-0)	-
CE 101	Engineering Geology	2	(1-0-2)	-
CE 102	Civil Engineering Drawing	3	(1-0-4)	GE 102
		17		

First Semester

Code	Course	Credits	Contact hours	Pre-request
IC 101	Introduction to Islamic Culture	2	(2-0-0)	-
MATH 204	Differential Equations	3	(3-1-0)	MATH 106 MATH 107
CE 210	Soil Mechanics and Foundation Engineering 1	3	(2-1-2)	CE 101
CE 214	Structural Analysis 1	3	(3-1-0)	GE 103
CE 240	Hydraulics 1	3	(2-1-2)	GE 108
CE 370	Surveying 1	3	(2-1-2)	MATH 107
		17		

Second Semester

Code	Course	Credits	Contact hours	Pre-request
STAT 201	Statistics and Probability	3	(3-1-0)	-
CEN 209	Computer Programming for Civil Engineering	3	(2-0-2)	-
CE 217	Reinforced Concrete Design 1	3	(3-2-0)	CE 214
CE 212	Properties and Strength of Materials 1	3	(2-1-2)	-
CE 215	Structural Analysis 2	3	(3-1-0)	GE 214
CE 241	Hydraulics 2	3	(2-1-2)	GE 240
		18		

First Semester

Code	Course	Credits	Contact hours	Pre-request
IC 102	Islam and Society Development	2	(2-0-0)	-
GE 306	Engineering Report Writing	2	(2-0-0)	STAT 201
CE 311	Soil Mechanics and Foundation Engineering 2	3	(2-1-2)	CE 210
CE 360	Environmental Engineering 1	2	(2-0-0)	GE 105
CE 362	Water Supply and Sewage Engineering	2	(2-1-0)	CE 241
CE 371	Surveying 2	3	(2-1-2)	CE 370
CE 380	Highway and Traffic Engineering	3	(3-1-0)	CE 370
		17		

Second Semester

Code	Course	Credits	Contact hours	Pre-request
ARAB 103	Arabic Editing	2	(2-0-0)	-
MATH 254	Numerical Methods	3	(3-1-0)	MATH 204
CE 342	Hydraulic structures (1)	3	(3-1-0)	CE 241
CE 343	Irrigation and Drainage Engineering	3	(3-1-0)	CE 241
CE 318	Reinforced Concrete Design 2	3	(3-2-0)	CE 217
CE 320	Steel Structures Design 1	3	(3-2-0)	CE 214
		17		

CE 399	Summer Training	0	90 Credit Hours must be completed
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First Semester

Code	Course	Credits	Contact hours	Pre-request
IC 103	Economic System in Islam	2	(2-0-0)	-
GE 407	Engineering Economy	2	(2,1,0)	-
CE 444	Computer Applications in Water Engineering	2	(1-0-2)	CEN 209
CE 445	Hydrology	3	(3-1-0)	CE 241
CE 461	Environmental Engineering 2	3	(2-0-2)	CE 360
CE 4--	Elective Course (3)	3	(3-1-0)	-
CE 498	Senior Design (1)	2	(1-0-2)	-
		17		

Second Semester

Code	Course	Credits	Contact hours	Pre-request
IC 104	Fundamentals of the Political System in Islam	2	(2-0-0)	-
GE 408	Project Management	2	(2-1-0)	GE 407
CE 422	Methods and Equipment of Construction	2	(2-1-0)	-
CE 423	Contracts and Specifications	2	(2-1-0)	-
CE 463	Water and Wastewater Treatment	3	(3-1-0)	CE 362
CE 46-	Elective Course (4)	3	(3-1-0)	-
CE 499	Senior Design (2)	2	(1-0-2)	CE 498
		16		