

الخطة الدراسية لطلاب
قسم هندسة وإدارة التشييد
لائحة 2014

Second Year/Semester 3						
Course	Course Name	Cr.	The number of hours per week			Pre-requisites
code			Lecture	Tutorial	Lab	
EB 103	Engineering Mathematics (3)	3	2	2	1	EB 102
EB113	Engineering Mechanics(3)	3	3	1	0	EB111&EB112
ES104	Surveying for Engineers	3	2	1	2	EB102
ES 101_E	Engineering Materials	3	2	2	1	None
ES 102_E	Structural Analysis (1)	3	2	3	0	EB 112
ES103	Introduction to CAD Systems	3	2	0	3	EB 142
Total Credit hours		18	13	9	7	
			29			

Second Year/Semester 4						
Course	Course Name	Cr.	The number of hours per week			Pre-requisites
code			Lecture	Tutorial	Lab	
EB 204	Engineering Mathematics (4)	3	2	2	1	EB103
ES 105	Introduction to Construction Engineering.	3	2	2	0	None
ES 106	Civil Engineering Drawing	3	2	2	1	ES103
ES 107	Structural Analysis (2)	3	2	3	0	ES102
ES 108	Strength of Materials	3	2	3	0	ES102
ES 202_E	Concrete Materials	3	2	2	1	ES101_E
Total Credit hours		18	12	14	3	
			29			

Third Year/ Semester 5						
Course	Course Name	Cr.	The number of hours per week			Pre-requisites
code			Lecture	Tutorial	Lab	
ES 201_E	Introduction to Environmental Engineering	2	2	1	0	None
ES 203_E	Construction Project Management	3	2	2	0	ES105
ES 204	Soil Mechanics (1)	3	2	2	1	ES101_E
ES 205	Building Technology	3	2	3	1	None
ES 206	Reinforced Concrete Design (1)	3	2	3	0	ES108&ES202_E
HU 113	Technical Reports Writing and Presentation Skills	2	1	0	2	None
	<u>Elective Course:-</u>	2	2	1	0	None
HU 133	Engineering Statistics					
Total Credit hours		18	13	12	4	
			29			

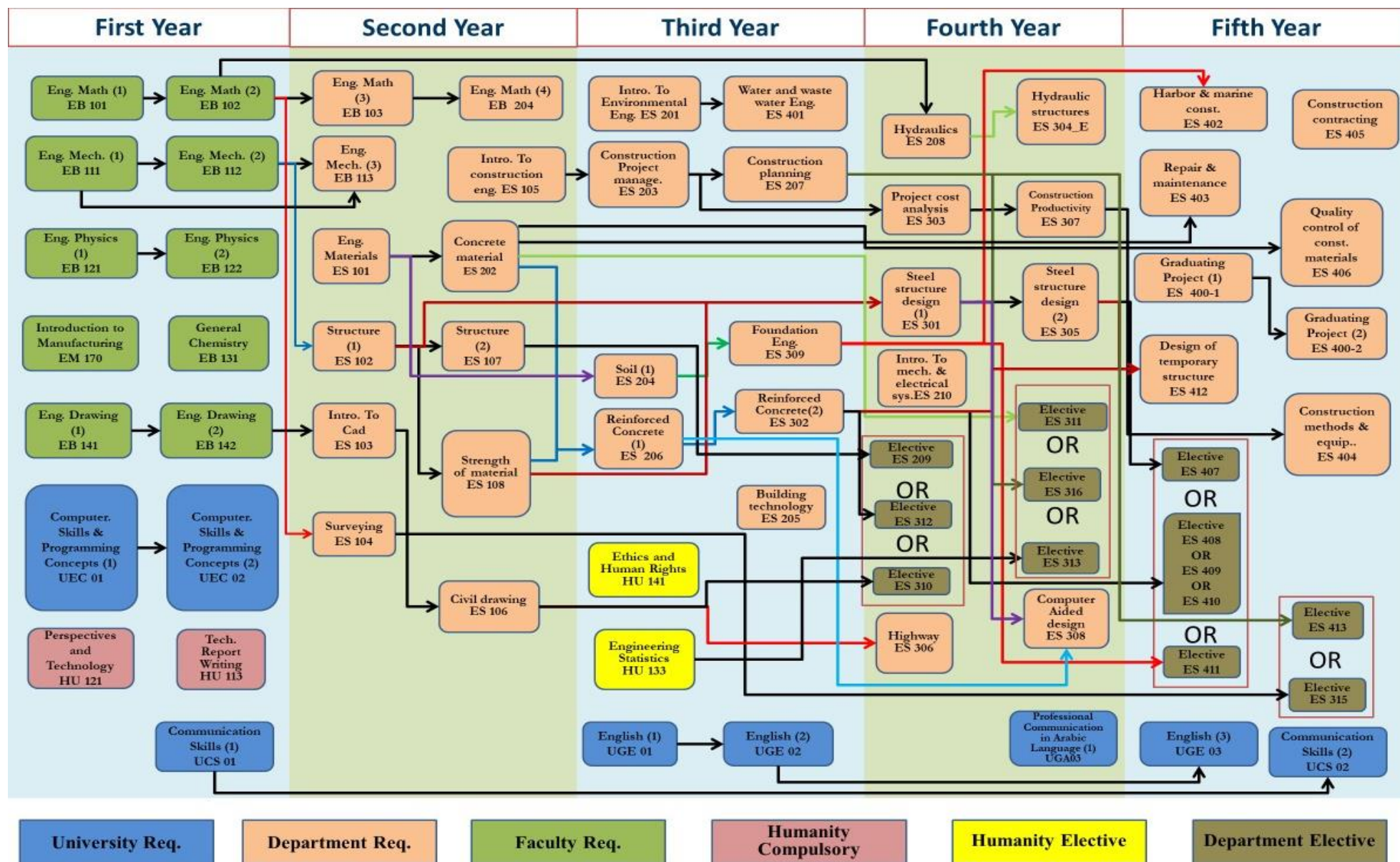
Third Year – Semester 6						
Course	Course Name	Cr.	The number of hours per week			Pre-requisites
code			Lecture	Tutorial	Lab	
ES 207	Construction Planning and Scheduling	3	2	2	1	ES203
ES 302_E	Reinforced Concrete Design (2)	3	2	3	0	ES206
ES 309	Foundation Engineering	3	2	3	0	ES 204, ES 206
ES 401_E	Water and Waste Water Engineering	3	2	2	0	ES 201
UGA 03	Arabic Language Skills	2	2	0	0	None
UGE 02	English (2)					UGE 01
ES 310	Elective : Transportation and Traffic Engineering	3	2	2	0	ES 106
ES 311	Elective:Advanced Topics in Materials		2	2	0	ES 202_E
Total Credit hours		17	12	12	1	
			25			

Forth Year – Semester 7						
Course	Course Name	Cr.	The number of hours per week			Pre-requisites
code			Lecture	Tutorial	Lab	
ES 208	Hydraulics	3	2	2	1	EB 102
ES 210	Introduction to Electrical and Mechanical Systems	3	2	2	0	none
ES 301_E	Steel Structures Design (1)	3	2	3	0	ES 102_E & ES 108
ES 303_E	Project Cost Analysis	3	2	2	0	ES 203_E
ES 306	Highway Engineering	3	2	2	1	ES 106
HU 134	Elective- HU -Engineering Economics	2	2	1	0	None
HU 142	Elective- HU -Legalization and contracts		2	1	0	None
HU 151	Elective- HU -Industrial safty		2	1	0	None
Total Credit hours		17	12	12	2	
			26			

Fourth Year/Semester 8						
Course	Course Name	Cr	The number of hours per week			Pre-requisites
code			Lecture	Tutorial	Lab	
ES 304_E	Hydraulic Structures	3	2	2	0	ES 208
ES 305	Steel Structures Design (2)	3	2	3	0	ES 301
ES 307	Construction Productivity	3	2	2	0	ES 303
ES 308	Computer Aided Design	3	2	0	3	ES 206 & ES 301
ES 409	Pre-stressed Concrete	3	2	2	0	ES 302
ES 313	Construction Risk Management		2	2	0	HU 133
HU 134	Elective- HU -Engineering Economics	2	2	1	0	None
HU 142	Elective- HU -Legalization and contracts		2	1	0	None
HU 151	Elective- HU -Industrial safty		2	1	0	None
Total Credit hours		17	14	12	3	
			29			

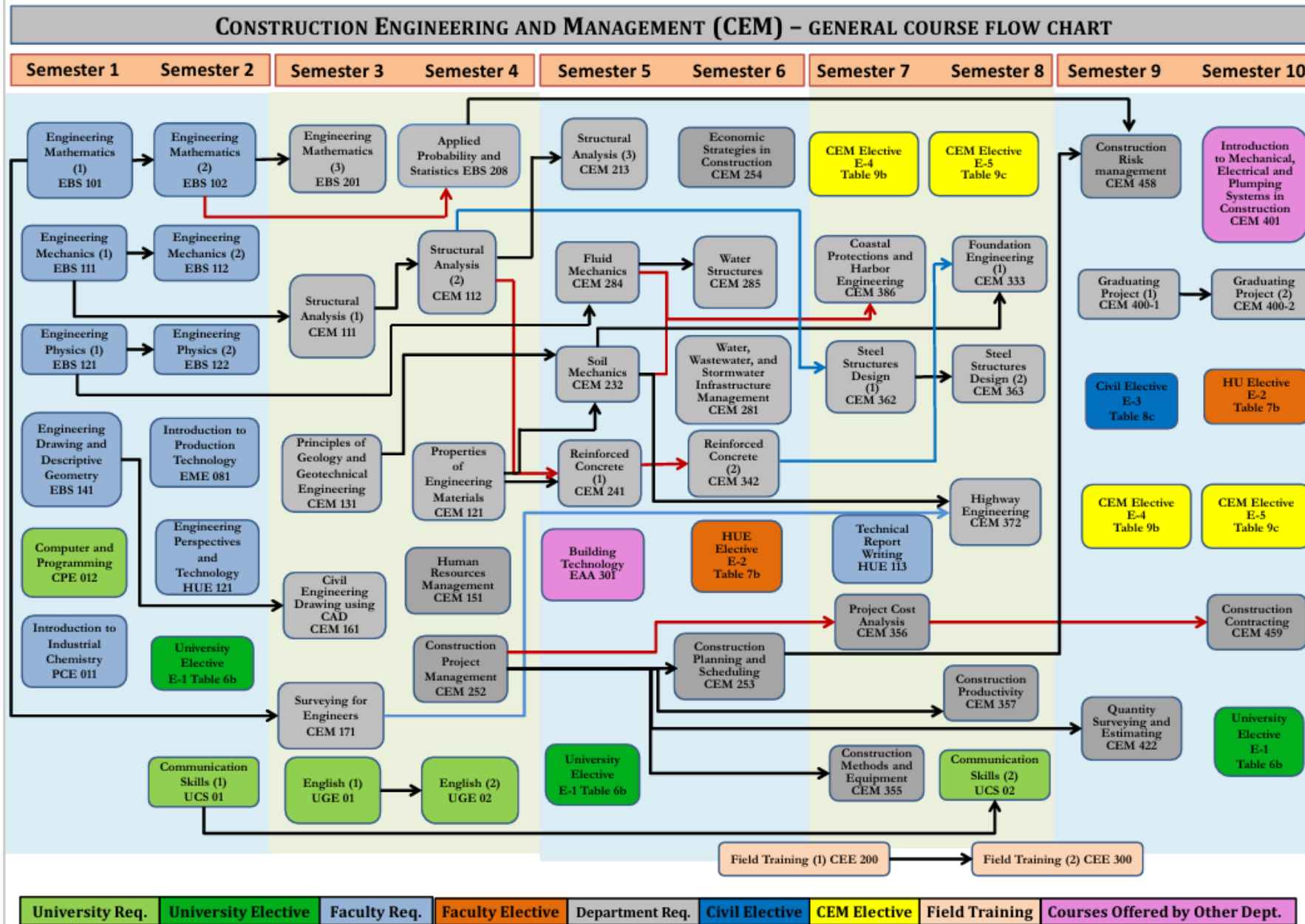
Fifth Year – Semester 9						
Course	Course Name	Cr	The number of hours per week			Pre-requisites
code			Lecture	Tutorial	Lab	
ES 402_E	Harbor and Marine Constructions	3	2	2	0	ES 309
ES 403_E	Repair and Maintenance of Buildings	3	2	2	0	ES 202_E
ES 412	Design of Temporary Structures	3	2	2	0	ES 302_E, ES 305
ES400-1	Graduation Project (1)	4	3	0	3	Department approval
UGE03	English Language (3)	2	1	0	2	UGE02
ES 316	Introduction to advanced BIM (1)	3	2	0	3	ES 207
ES 310	Transportation and Traffic Engineering		2	2	0	None
ES 312	Reinforced Concrete Industrial Structures		2	2	0	ES 302_E
ES 407	Design of Steel Bridges		2	2	0	ES 305
Total Credit hours		18	18	8	8	
			34			

Fifth Year – Semester 10						
Course	Course Name	Cr.	The number of hours per week			Pre-requisites
code			Lecture	Tutorial	Lab	
ES 404	Construction Methods and Equipment	3	2	2	0	ES 202 & ES 307
ES 405	Construction Contracting	3	2	2	0	None
ES 406	Quality Control of Construction Materials	3	2	2	0	ES 202_E
ES 400-2	Graduation Project (2)	4	3	2	1	ES 400-1
UCS 02	Communications Skills	1	0	0	3	UCS 01
ES 413	Construction Management using BIM (2)	3	2	0	3	ES 207
ES 409	Pre-stressed Concrete		2	2	0	ES 302
ES411	Soil Mechanics (2)		2	2	0	ES 309
ES 313	Construction Risk Management		2	2	0	HU 133
Total Credit hours		17	13	8 or 10	4 or 7	
			27 or 28			



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لائحة 2023 نظام الخمس سنوات



لائحة 2023 نظام الأربع سنوات

