

المقررات الدراسية لقسم الهندسة المدنية
Academic Courses for Civil Engineering Department

A. Compulsory Civil Engineering Courses for all Sections

المقررات الهندسية الملزمة لجميع شعب الهندسة المدنية

Second Year

Third Semester Courses							
No	Course Name	Code	Units	Weekly Hours			Prerequisite
				Lecture	Tutorial	Practical	
1	Building Materials	CE 210	3	2	2	-	
2	Engineering Workshop	GE 244	2	2	-	2	
3	Mathematics III	GS 222	3	4	-	-	GS 121
4	Strength of Materials I	CE220	3	1	2	-	GE 140
5	Descriptive Geometry	GE 243	2	2	1		GE 142
6	Computer science	EE 203	3	2	2	-	GS 121
7	Engineering Geology	GE 249	2				
			18				

Forth Semester Courses							
No	Course Name	Code	Units	Weekly Hours			Prerequisite
				Lecture	Tutorial	Practical	
1	Math. IV	GS 223	3	2	2	-	GS 222
2	Concrete Technology	CE 215	3	2	2	-	CE 210
3	History of Islamic culture	GH 214	2	1	-	1	GH 111
4	Strength of Materials II	CE 221	2	2	2	-	CE 220

5	Surveying I	CE 240	3	1		1	
6	Fluid Mechanics I	CE 250	3	2	-	2	CE 140
7	Tech. Report Writing	GH 218	1	2	-	-	
			17				

Third Year

Fifth Semester Courses							
No	Course Name	Code	Units	Weekly Hours			Prerequisite
				Lecture	Tutorial	Practical	
1	Statistics & Prob.	GS 324	3	2	1	1	GS 120
2	Surveying II	CE 341	3	2	2	-	CE 240
3	Civil Eng. Drawing	CE 300	2	2	2	-	GE 142
4	Soil Mechanics I	CE 370	3	2	2	-	GE 249
5	Theory of Structures I	CE 322	3	2	1	1	CE 221
6	Fluid Mechanics II	CE 351	3				CE 370
			17				

Sixth Semester Courses							
No	Course Name	Code	Units	Weekly Hours			Prerequisite
				Lecture	Tutorial	Practical	
1	Numerical Methods	GE 346	3	2	1	1	GS 222
2	Rein. Concrete Design I	CE 328	3	3	1	-	CE 221
3	Construction and Architecture	CE 301	3	1	-	1	CE 300
4	Theory of Structures II	CE 323	3	3	1	-	CE322
5	Highway Engineering I	CE 344	3	1	-	1	CE 341
6	Soil Mechanics II	CE 371	3	3	1		CE 250
			18				

B. Compulsory Courses for Structures & Materials Division

المقررات الهندسية الملزمة لشعبة
الهندسة الإنشائية ومواد البناء

Eighth Semester Courses							
No	Course Name	Code	Units	Weekly Hours			Prerequisite
				Lecture	Tutorial	Practical	
1	Foundation Engineering II	CE 477	3	2	1	1	CE 476
2	Construction M. and Equipment's	CE482	3	3	1	-	CE 344
3	Reinforced Concrete Design III	CE 430	3	1	-	1	CE 429
4	Theory of Structures III	CE 424	3	3	1	-	CE 323
5	Design of Steel Structures II	CE 436	3	1	-	1	CE 435
			15				

Fifth Year

Ninth Semester Courses							
No	Course Name	Code	Units	Weekly Hours			Prerequisite
				Lecture	Tutorial	Practical	
1	Matrix Analysis of Structures	CE 525	3	2	1	1	CE 424
2	Eng. Economy and Management	CE 581	2	3	1	-	Seventh Semester
3	Selected Topic I	CE 5XX	2	1	-	1	Specialization
4	Selected Topic II	CE 5XX	2	3	1	-	Specialization
5	Engineering Project	CE 599	-	1	-	1	Specialization
			09				

Tenth Semester Courses

No	Course Name	Code	Units	Weekly Hours			Prerequisite
				Lecture	Tutorial	Practical	
1	Prestressed Concrete	CE 531	3	2	1	1	CE 429
2	Specifications and Contracts	CE 583	3	3	1	-	Sixth Semester
3	Selected Topic III	CE 5XX	2	1	-	1	Specialization
4	Engineering Project	CE 599	4	3	1	-	
			12				

C. Elective Courses for Structures & Materials Division (three courses with 6 units to be selected)

المقررات الهندسية الاختيارية لشعبة
الهندسة الإنشائية ومواد البناء (يتم اختيار
ثلاثة مقررات بـ 6 وحدات)

No.	Course Name	Designation	Prerequisite	Units	عنوان المقرر
1	High-rise R. C. Buildings	CE 532		2	المنشآت الخرسانية العالية
2	Bridge Engineering	CE 527		2	هندسة الجسور
3	Testing of Concrete in Structures	CE 516		2	فحص الخرسانة في المنشآت
4	Advanced Concrete Technology	CE 517		2	تكنولوجيا الخرسانة المتقدمة
5	Any Subjected Approved by the Department	CE 5XX		2	أي موضوع في التخصص يتم اختياره ويوافق عليه من القسم
Total				6	إجمالي عدد الوحدات

D. Compulsory Courses for Hydraulic & Environmental Engineering Division

المقررات الهندسية الملزمة لشعبة هندسة الهيدروليك والبيئة

Eighth Semester Courses							
No	Course Name	Code	Units	Weekly Hours			Prerequisite
				Lecture	Tutorial	Practical	
1	Surface Water Hydrology	CE 462	3	2	1	1	CE 351
2	Construction M. and Equipment's	CE482	3	3	1	-	CE 344
3	Irrigation and Drainage	CE 463	3	1	-	1	CE 351
4	Sanitary Engineering II	CE 458	3	3	1	-	CE 457
5	Hydraulic Structures I	CE 452	3	1	-	1	CE 351
			15				

Fifth Year

Ninth Semester Courses							
No	Course Name	Code	Units	Weekly Hours			Prerequisite
				Lecture	Tutorial	Practical	
1	Hydraulic Structures II	CE 543	3	2	1	1	CE 452
2	Eng. Economy and Management	CE 581	2	3	1	-	Seventh Semester
3	Selected Topic I	CE 5XX	2	1	-	1	Specialization
4	Selected Topic II	CE 5XX	2	3	1	-	Specialization
5	Engineering Project	CE 599	-	1	-	1	Specialization
			09				

Tenth Semester Courses							
No	Course Name	Code	Units	Weekly Hours			Prerequisite
				Lecture	Tutorial	Practical	
1	Harbor Engineering	CE 564	3	2	1	1	
2	Specifications and Contracts	CE 583	3	3	1	-	Sixth Semester

3	Selected Topic III	CE 5XX	2	1	-	1	Specialization
4	Engineering Project	CE 599	4	3	1	-	
			12				

E. Elective Courses for Hydraulic & Environmental Engineering Division (three courses with 6 units to be selected):

المقررات الهندسية الاختيارية لشعبة
هندسة الهيدروليك والبيئة (يتم اختيار ثلاثة
مقررات بـ 6 وحدات)

No.	Course Name	Designation	Prerequisite	Units	عنوان المقرر
1	Ground Water Hydrology	CE 565		2	هيدرولوجية المياه الجوفية
2	Fluid Mechanics III	CE 555		2	III ميكانيك الموائع
3	Water Resources Engineering	CE 566		2	هندسة مصادر المياه
4	Any Subjected Approved by the Department	CE 5XX		2	أي موضوع في التخصص يتم اختياره ويوافق عليه من القسم
Total				6	إجمالي عدد الوحدات

F. Compulsory Courses for Geotechnical & Transportation Engineering Division

المقررات الهندسية الملزمة لشعبة الهندسة
الجيوتقنية وهندسة الطرق

Fifth Year							
No	Course Name	Code	Units	Weekly Hours			Prerequisite
				Lecture	Tutorial	Practical	
1	Foundation Engineering II	CE 477	3	2	1	1	CE 476
2	Construction M. and Equipment's	CE482	3	3	1	-	CE 344
3	Traffic Engineering	CE 446	3	1	-	1	CE 445
4	Surveying III	CE 442	3	3	1	-	CE 341
5	Soil Exploration II	CE 472	3	1	-	1	CE 371
			15				

Ninth Semester Courses							
No	Course Name	Code	Units	Weekly Hours			Prerequisite
				Lecture	Tutorial	Practical	
1	Railway Engineering	CE 547	3	2	1	1	CE 445
2	Eng. Economy and Management	CE 581	2	3	1	-	Seventh Semester
3	Selected Topic I	CE 5XX	2	1	-	1	Specialization
4	Selected Topic II	CE 5XX	2	3	1	-	Specialization
5	Engineering Project	CE 599	-	1	-	1	Specialization
			09				

Tenth Semester Courses							
No	Course Name	Code	Units	Weekly Hours			Prerequisite
				Lecture	Tutorial	Practical	
1	Soil Stabilization	CE 573	3	2	1	1	CE 371
2	Specifications and Contracts	CE 583	3	3	1	-	Sixth Semester
3	Selected Topic III	CE 5XX	2	1	-	1	Specialization
4	Engineering Project	CE 599	4	3	1	-	
			12				

G. Elective Courses for Geotechnical & Transportation Division (three courses with 6 units to be selected):

المقررات الهندسية الاختيارية لشعبة
الهندسة الجيوتقنية وهندسة الطرق (يتم
اختيار ثلاثة مقررات بـ 6 وحدات)

No.	Course Name	Designation	Prerequisite	Units	عنوان المقرر
1	Stability of Slopes	CE 574		2	استقرارية المنحدرات
2	Rock Mechanics	CE 575		2	ميكانيكا الصخور
3	Highway Maintenance	CE 547		2	صيانة الطرق
4	Soil Improvement	CE 578		2	تحسين التربة
5	Construction Dewatering	CE 579		2	تجفيف التربة أثناء الأبناء
6	Water flow in soils	CE 567		2	جريان المياه في التربة
7	Any Subjected Approved by the Department	CE 5XX		2	أي موضوع في التخصص يتم اختياره ويوافق عليه من القسم
Total				6	إجمالي عدد الوحدات