

Al-Nahrain University
College of Engineering
Department of Civil Engineering
Study Plan for the B.Sc. Degree Course (2020-2021)

First Year

❖ **First Semester ...**

No.	CODE	SUBJECT	Hrs Per Week			Units
			Th	App	Tut	
1	UREQ 110	Human Rights	1			1
2	UREQ 111	Computer Fundamentals and Programming I	1	2		2
3	MATH 110	Mathematics I	3		1	3
4	CREQ 110	Engineering Drawings I	1	2		2
5	CREQ 111	Workshop Technology		3		
6	PHYS 110	Physics	2	2		3
7	CIER 110	Engineering Mechanics I	4			4
Total			12	9	1	15
			22			

❖ **Second Semester ...**

No.	CODE	SUBJECT	Hrs Per Week			Units
			Th	App	Tut	
1	UREQ 120	Arabic Language I	1			1
2	UREQ 121	English Language I	2			2
3	MATH 120	Mathematics II	3		1	3
4	CREQ 120	Engineering Drawing II	1	2		2
5	CREQ 121	Elective *	2			2
6	CIER 120	Engineering Mechanics II	3		1	3
7	CIER 121	Material Technology	2	2		3
8	CIER 122	Engineering Geology	2	1		2
Total			16	5	2	18
			23			

***Elective:**

1. Chemistry
2. Biology
3. Geology
4. General Science

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Second Year

❖ **First Semester ...**

No.	CODE	SUBJECT	Hrs Per Week			Units
			Th	App	Tut	
1	UREQ 210	English Language II	2			2
2	UREQ 211	Principles of Management	1			1
3	UREQ 212	Arabic Language II	1			1
4	UREQ 213	Computer Fundamentals and Programming II	1	2		2
5	MATH 210	Mathematics III	3		1	3
6	CIER 210	Mechanics of Materials I	3	2		4
7	CIER 211	Concrete Technology	3	2		4
8	CIER 212	Fluid Mechanics I	3	2		4
9	CIER 213	Geomatics I	2	3		3
Total			19	11	1	24
			31			

❖ **Second Semester ...**

No.	CODE	SUBJECT	Hrs Per Week			Units
			Th	App	Tut	
1	UREQ 220	Democracy	1			1
2	MATH 220	Mathematics IV	3		1	3
3	CREQ220	Engineering Statistics	2			2
4	CIER 221	Mechanics of Materials II	3		1	3
5	CIER 220	Building Construction	2	2		3
6	CIER 225	Fluid Mechanics II	3	2		4
7	CIER 222	Geomatics II	2	3		3
Total			16	7	2	19
			25			

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Third Year

❖ **First Semester ...**

No.	CODE	SUBJECT	Hrs Per Week			Units
			Th	App	Tut	
1	CIER 311	Engineering Mathematics I	3			3
2	CIER 310	Soil Mechanics I	3	2		4
3	CIER 312	Theory of Structures I	3		1	3
4	CIER 313	Reinforced Concrete Design I	3		1	3
5	CIER 314	Sanitary Engineering I	2	2	1	3
6	CIER 315	Engineering Management & Economy	3			3
7	CIER 316	Hydrology	2		1	2
8	CIER 317	Traffic Engineering	2		1	2
Total			21	4	5	23
			30			

❖ **Second Semester ...**

No.	CODE	SUBJECT	Hrs Per Week			Units
			Th	App	Tut	
1	UREQ 320	English Language III	2			2
2	CIER 321	Engineering Mathematics II	3			3
3	TRAN#90	Summer Training				
4	CIER 320	Soil Mechanics II	3	2		4
5	CIER 322	Theory of Structures II	3		1	3
6	CIER 323	Reinforced Concrete Design II	3		1	3
7	CIER 324	Sanitary Engineering II	2	2	1	3
8	CIER 326	Construction Methods	2		1	2
9	CIER 327	Hydraulics	2		1	2
Total			20	4	5	22
			29			

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Fourth Year

❖ **First Semester ...**

No.	CODE	SUBJECT	Hrs Per Week			Units
			Th	App	Tut	
1	UREQ 410	English Language IV	2			2
2	CREQ 410	Project I		4		2
3	CIER 410	Elective I	3			3
4	CIER 411	Foundation Engineering I	3			3
5	CIER 412	Transportation Engineering I	1	2	1	2
6	CIER 414	Reinforced Concrete Design III	3		1	3
7	CIER 413	Steel Design I	2		2	3
8	CIER 415	Computer Application in Civil Engineering	2		1	2
9	CIER 417	Quantity Surveying	3			3
Total			19	6	5	23
			30			

❖ **Second Semester ...**

No.	CODE	SUBJECT	Hrs Per Week			Units
			Th	App	Tut	
1	ETHC 420	Professional Ethics	1			1
2	CREQ 420	Project		4		2
3	CIER 420	Elective II	2		1	2
4	CIER 421	Foundation Engineering II	3			3
5	CIER 422	Transportation Engineering II	2	2		3
6	CIER 424	Reinforced Concrete Design IV	3		1	3
7	CIER 423	Steel Design II	2		2	3
8	CIER 426	Numerical Analysis	2		1	2
Total			15	6	5	19
			26			

Approved Electives:

1. Dynamic of Structure
2. Water Resources
3. Matrix Structural Analysis
4. Plumbing Engineering
5. Remote Sensing and GIS
6. Advanced Concrete Technology
7. Bridge Engineering
8. Environmental Engineering
9. Airport Engineering
10. Selected Topics