

Al-Nahrain University
College of Engineering
Department of Civil Engineering
Study Plan for the B.Sc. Degree Course (2024-2025)

First Year

❖ **Level One ...**

No.	CODE	SUBJECT	Hrs Per Week			ECTS
			Th	App	Tut	
1	UREQ 110	Workshop		3		3.00
2	UREQ 111	Computer Fundamentals and Programming	2	2		3.00
3	MATH 110	Mathematics	4			5.00
4	CREQ 110	Engineering Drawing	2	3		5.00
5	UREQ 112	Human Rights and Democracy	2			2.00
6	PHYS 110	Physics	2	2		5.00
7	CIER 110	Engineering Mechanics	3		1	5.00
8	UREQ 113	Arabic Language	2			2.00
Total			17	10	1	30
			28			

❖ **Level Two ...**

No.	CODE	SUBJECT	Hrs Per Week			ECTS
			Th	App	Tut	
1	CREQ 120	Chemistry	2	2		4.00
2	MATH 120	Fundamentals of Engineering Mathematics	3		1	5.00
3	CREQ 121	Engineering Graphics	2	2		5.00
4	CREQ 122	Geology	2	2		5.00
5	CIER 120	Fundamentals of Static and Dynamic	3		1	5.00
6	CIER 121	Material Technology	2	2		4.00
7	UREQ 120	English Language	2			2.00
Total			16	8	2	30
			26			

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Second Year

❖ **First Semester ...**

No.	CODE	SUBJECT	Hrs Per Week			ECTS
			Th	App	Tut	
1	UREQ 210	Computer 2	2	2		3.00
2	MATH 210	Engineering Mathematics	3		1	5.00
3	CIER 210	Mechanics of Materials	3		1	5.00
4	CIER 211	Concrete Technology	3	2		5.00
5	CIER 212	Fluid Mechanics I	2	2		5.00
6	UREQ 211	Crimes of the Defunct Baath Party	2			2.00
7	CIER 213	Surveying	2	2		5.00
Total			17	8	2	30
			27			

❖ **Second Semester ...**

No.	CODE	SUBJECT	Hrs Per Week			ECTS
			Th	App	Tut	
1	MATH 220	Analytic Mathematics	3		1	5.00
2	CREQ 220	Engineering Statistics	3			5.00
3	CIER 220	Building Construction	2		1	3.00
4	CIER 221	Mechanics of Solid	3		1	5.00
5	CIER 222	Geomatics	2	2		4.00
6	CIER 223	Fluid Mechanics II	3	2		4.00
7	UREQ 220	New Headway Plus	2			2.00
8	UREQ 221	Arabic Language II	2			2.00
Total			20	4	3	30
			27			

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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	4			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			16	6	5	19
			27			

Approved Electives:

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| 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 |
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