



Republic of Iraq - Ministry of Higher Education and Scientific Research
 Al-Nahrain University
 Bachelor's degree of Science in Civil Engineering
 Four years (Eight semesters) - 240 ECTS credits - 1 ECTS = 25 hr
 Program Curriculum (2023 - 2024)



جمهورية العراق - وزارة التعليم العالي والبحث العلمي
 جامعة النهرين
 بكالوريوس علوم في الهندسة المدنية
 أربع سنوات (ثمانية فصول دراسية) - ٢٤٠ وحدة اوروبية - كل وحدة اوروبية = ٢٥ ساعة
 المنهاج الدراسي للعام ٢٠٢٣-٢٠٢٤



Level	Semester	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language	SSWL (hr/w)						Exam hr/sem	SSWL hr/sem	USSWL hr/sem	SWL hr/sem	ECTS	Module Type	Prerequisite Module(s) Code	
							CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)								
One		1	CIV11001	Workshop Technology		Arabic				3		0	3	48	27	75	3.00	HSS		
		2	CIV11002	Computer Fundamentals and Programming I		English	2		2				3	63	12	75	3.00	HSS		
		3	CIV11203	Mathematics I		English	4						3	63	62	125	5.00	FS		
		4	CIV11104	Engineering Drawing I		English	2		3				3	78	47	125	5.00	FE		
		5	MUC11001	Human Rights and Democracy		Arabic	2					0	3	33	17	50	2.00	HSS		
		6	CIV11205	Physics		English	2		2				3	63	62	125	5.00	FS		
		7	CIV11106	Engineering Mechanics I		English	3				1		3	63	62	125	5.00	FE		
		8	MUC11002	Arabic Language		Arabic	2						3	33	17	50	2.00	HSS		
						Total	17	0	7	3	1	0	24	444	306	750	30			
UGI	Semester	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language	SSWL (hr/w)						Exam hr/sem	SSWL hr/sem	USSWL hr/sem	SWL hr/sem	ECTS	Module Type	Prerequisite Module(s) Code	
							CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)								
	Two		1	CIV12201	Chemistry		English	2		2				3	63	37	100	4.00	FS	
			2	CIV12102	Mathematics II		English	3				1		3	63	62	125	5.00	FS	CIV 11203
			3	CIV12103	Computer-Aided Drawing II		English	2		2				3	63	62	125	5.00	FE	CIV 11104
			4	CIV12204	Geology		English	2		2				3	63	62	125	5.00	FS	
			5	CIV12105	Engineering Mechanics II		English	3				1		3	63	62	125	5.00	FE	CIV 11106
		6	CIV12106	Material Technology		English	2		2				3	63	37	100	4.00	FE		
		7	MUC12203	English Language I		English	2						3	33	17	50	2.00	HSS		
						Total	16	0	8	0	2	0	21	411	339	750	30			
UGI	Semester	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language	SSWL (hr/w)						Exam hr/sem	SSWL hr/sem	USSWL hr/sem	SWL hr/sem	ECTS	Module Type	Prerequisite Module(s) Code	
							CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)								
	Three		1	CIV21001	Computer Fundamentals and Programming II		English	2		2				3	63	12	75	3.00	HSS	L
			2	CIV21202	Mathematics III		English	3				1		3	63	62	125	5.00	FS	CIV 11203
			3	CIV21103	Mechanics of Materials I		English	3				1		3	63	62	125	5.00	FE	CIV 12105
			4	CIV21104	Concrete Technology		English	3		2				3	78	47	125	5.00	FE	
			5	CIV21105	Fluid Mechanics I		English	2		2				3	63	62	125	5.00	FE	
		6	MUC21003	Crimes of the Defunct Baath Party		Arabic	2						3	33	17	50	2.00	HSS		
		7	CIV21106	Geomatics I		English	2		2				3	63	62	125	5.00	FE		
						Total	17	0	8	0	2	0	21	426	324	750	30.00			
UGI	Semester	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language	SSWL (hr/w)						Exam hr/sem	SSWL hr/sem	USSWL hr/sem	SWL hr/sem	ECTS	Module Type	Prerequisite Module(s) Code	
							CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)								
	Four		1	CIV22201	Mathematics IV		English	3				1		3	63	62	125	5.00	FS	CIV 21103
			2	CIV22102	Engineering Statistics		English	3						3	48	77	125	5.00	FE	
			3	CIV22103	Building Construction		English	3				2		3	78	47	125	5.00	FE	
			4	CIV22104	Mechanics of Materials II		English	3				1		3	63	62	125	5.00	FE	CIV 21103
			5	CIV22105	Geomatics II		English	2		2				3	63	37	100	4.00	FE	CIV 21106
		6	CIV22106	Fluid Mechanics II		English	3		2				3	78	22	100	4.00	FE	CIV 21105	
		7	MUC11004	English Language II		English	2						3	33	17	50	2.00	HSS	MUC12203	
						Total	19	0	4	0	4	0	21	426	324	750	30			
Five	Semester	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language	SSWL (hr/w)						Exam hr/sem	SSWL hr/sem	USSWL hr/sem	SWL hr/sem	ECTS	Module Type	Prerequisite Module(s) Code	
							CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)								
		1	L	Soil Mechanics I		English	3		2				3	78	22	100	4.00	FE		
		2	L	Engineering and Numerical Analysis		English	5				1		3	93	57	150	6.00	FE	CIV 22201	
	3	L	Theory of Structures I		English	3				1		3	63	37	100	4.00	FE	CIV 22104		
	4	L	Reinforced Concrete Design I		English	3				1		3	63	37	100	4.00	ED	CIV 22104		

UGII	5	CIV31105	Sanitary Engineering I	English	2		2					3	63	37	100	4.00	ED	
	6	CIV31106	Engineering Management & Economics	English	2							3	33	67	100	4.00	FE	
	7	CIV31107	Traffic Engineering I	English	2				1			3	48	52	100	4.00	FE	
	Total					20	0	4		4		21	441	309	750	30.00		


Semester	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language	SSWL (hr/w)						Exam	SSWL	USSWL	SWL	ECTS	Module Type	Prerequisite Module(s) Code
						CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)							
Six	1	CIV32101	Soil Mechanics II	English	3		2					3	78	47	125	5.00	FE	CIV31101
	2	MUC32005	Professional Ethics	English	2							3	33	17	50	2.00	HSS	
	3	CIV32102	Theory of Structures II	English	3				1			3	63	62	125	5.00	FE	CIV31103
	4	CIV32103	Reinforced Concrete Design II	English	3				1			3	63	62	125	5.00	ED	CIV31104
	5	CIV32104	Sanitary Engineering II	English	2		2		1			3	78	22	100	4.00	ED	CIV31105
	6	CIV32105	Hydrology	English	2				2			3	63	62	125	5.00	FE	
	7	CIV32106	Environmental Engineering	English	2				2			3	63	37	100	4.00	FE	
Total					17	0	4		7		21	441	309	750	30.00			

Level	Semester	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language	SSWL (hr/w)						Exam	SSWL	USSWL	SWL	ECTS	Module Type	Prerequisite Module(s) Code
							CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)							
Seven	1	CIV41101	Project I	English				2				3	33	17	50	2.00	ED		
	2	CIV41102	Elective I	English	3				1			3	63	37	100	4.00	FE		
	3	CIV41103	Foundation Engineering I	English	3				1			3	63	62	125	5.00	ED	CIV32101	
	4	CIV41104	Geometric Design of Highways	English	3				1			3	63	62	125	5.00	ED	CIV31107	
	5	CIV41105	Steel Design I	English	3				1			3	63	62	125	5.00	ED	CIV32102	
	6	CIV41106	Reinforced Concrete Design III	English	3				1			3	63	62	125	5.00	ED	CIV32103	
	7	CIV41107	Hydraulics	English	2				2			3	63	37	100	4.00	ED		
Total					17				7		21	411	339	750	30.0				

Semester	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language	SSWL (hr/w)						Exam	SSWL	USSWL	SWL	ECTS	Module Type	Prerequisite Module(s) Code
						CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)							
Eight	1	CIV42101	Project II	English				2				3	33	17	50	2.00	ED	
	2	CIV42102	Elective II	English	3				1			3	63	62	125	5.00	FE	
	3	CIV42103	Foundation Engineering II	English	3				1			3	63	62	125	5.00	ED	CIV41103
	4	CIV42104	Pavement Engineering	English	2		2					3	63	37	100	4.00	ED	CIV41104
	5	CIV42105	Steel Design II	English	3				1			3	63	62	125	5.00	ED	CIV41105
	6	CIV42106	Reinforced Concrete Design IV	English	3				1			3	63	62	125	5.00	ED	CIV41106
	7	CIV42107	Construction Methods & Estimation	English	3				1			3	63	37	100	4.00	FE	
Total					17		2	2	5		21	411	339	750	30.0			

Total Records						CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)	Exam	SSWL	USSWL	SWL	ECTS	Must be 240 ECTS
						140	0	37	5	32	0	171	3411	2589	6000	240.0	

Note: The student should complete 4 weeks of Summer Internships to fulfill the requirements of the Bachelor's degree

Structured SWL (hr/w) type	CL	Class Lecture	Module Types	B	Basic learning activities	SWL: Student Workload		
	Lab	Laboratory		C	Core learning activity			SSWL: Structured SWL
	Pr	Practical Training		S	Support or related learning activity			USSWL: Unstructured SWL
	Tut	Tutorial		E	Elective learning activity			
	Lect	Online lecture						
	Semn	Seminar						

Note: Columns O, Q and R are prograemd, protected and should not be edited

Elective Modules I	
1	Airport Engineering
2	Plumbing
3	Masonry Engineering
4	Durability of Concrete Structures
5	Construction Materials
6	Computer Application in Civil Engineering

Elective Modules II	
1	Bridge Engineering
2	Selected Topics in Civil Engineering
3	Railway Engineering
4	Fundamentals of Soil Improvement
5	Traffic Engineering II
6	Earthquake Engineering