Program Catalogue | 2024-2025 |

Samarra University

First Cycle-Bachelor's degree-Civil Engineering

Bachelor of Engineering - Civil

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1.Mission and Vision Statement

Vision Statement

The Civil Engineering Program aspires to be a leader in the field of civil engineering locally and internationally through scientific research and comm Unit service in the field of civil engineering.

Mission Statement

Providing an advanced educational environment to prepare qualified civil engineers to participate in the reconstruction of Iraq.

2.Program Specifications

Program code:	Bachelor of Civil Science	European Points System	240
period:	4 levels, 8 semesters	How to attend:	Full time

3.Program objectives

1. To prepare highly qualified civil engineers capable of practicing the design and management of construction projects.
2. Preparing graduates to participate in the development of the field of civil engineering through scientific research.
3. Building an effective network with learning institutions around the world for continuous development of the programmer.

4.Student learning outcomes

Civil engineering is a major engineering discipline, and its many subdisciplines include architectural engineering, environmental engineering, and water resources engineering. Civil engineering is a professional engineering discipline that deals with the design, construction, and maintenance of the physical and natural environment, including public works such as roads, bridges, canals, dams, airports, sewerage systems, pipelines, structural components of buildings, and railways. Civil engineering is traditionally divided into a number of subdisciplines. It is the second oldest engineering discipline after military engineering, and is defined to distinguish non-military engineering from military engineering. Civil engineering can be done in the public sector from municipal public works departments to federal government agencies, and in the private sector from local businesses to global Fortune 500 companies.

Civil Engineering graduates should be able to:

Result 1

Mathematics and Science

Apply the fundamentals of mathematics, science, and engineering to solve engineering problems. Civil engineers design and build large-scale projects including buildings, dams, bridges, roads, tunnels, and water systems.

Result 2

communication skills

Graduates will be able to formally communicate the results of biological investigations using oral and written communication skills. Civil engineering relies heavily on mathematics and physics, but design, economics and materials science are also important.

Result 3

Coastal engineering

- Possessing sufficient skills in coastal area management, as coastal area management for construction projects is one of the basic skills that must be learned.

Result 4

Construction Engineering

Ability to plan, execute, transport materials, and develop sites based on hydraulic, environmental, structural, and geotechnical engineering. Construction engineers are often involved in more work-like transactions, for example, drafting and reviewing contracts, evaluating logistics, and monitoring supply prices. Design structures to withstand severe earthquake exposures. Earthquake engineering includes Earthquake engineering is a branch of structural engineering. To understand the reaction of structures on shaking ground; to predict the potential consequences of earthquakes; and to design, construct, and maintain structures to operate in the event of an earthquake in compliance with building codes. Design and construct drainage systems.

Result 5

Geotechnical Engineering

He has the fundamental knowledge of the study of rocks and soils supporting civil engineering systems. Knowledge derived from the fields of soil science, materials science, mechanics, and hydraulics is applied to design foundations, retaining walls, and other structures safely and economically. Environmental efforts to protect groundwater and keep landfills safe have led to a new field of research called environmental geoengineering.

Result 6

Materials Science and Engineering

Able to study the fundamental properties of materials, dealing with ceramics such as concrete and mixed asphalt concrete, strong metals such as aluminium and steel, and thermosetting polymers including polymethyl methacrylate (PMMA) and carbon fibre.

Result 7

Structural engineering

Structural engineering is concerned with the structural design and analysis of buildings, bridges, towers, flyovers, tunnels, marine structures such as offshore oil and gas fields, airframes, and other structures. This involves determining the loads acting on the structure, the forces and stresses that arise within the structure due to these loads, and then designing the structure to successfully support and resist these loads. The loads can be the self-weight of the structure, other dead loads, live loads, moving loads (wheels), wind loads, seismic loads, loads

from temperature changes, etc. A structural engineer must design structures to be safe for their users and to successfully fulfill the function for which they were designed (to be serviceable). Due to the nature of some loading conditions, sub-disciplines have emerged within structural engineering, including wind engineering and earthquake engineering.

Result 8

Scan

The measurement of specific dimensions occurring on or near the surface of the earth. Surveying equipment such as levels and theodolites are used to accurately measure angular deviation, horizontal, vertical and slope distances. With computerization, electronic distance measurement (EDM), total measuring stations, GPS surveying and laser scanning have largely replaced traditional instruments. The data collected by surveying is converted into a graphic representation of the earth's surface in map form. This information is then used by civil engineers, contractors and real estate agents for design, construction and trade, respectively. The size and position of structural elements must be determined in relation to each other, site boundaries and adjacent structures.

Result 9

Water Resources Engineering

Water resources engineering is concerned with the collection and management of water (a natural resource). As such, it is a discipline that combines elements of hydrology, environmental science, meteorology, resource conservation, and resource management. This area of civil engineering is concerned with the prediction and management of the quality and quantity of water in both underground (aquifers) and above-ground (lakes, rivers, streams) resources. Water resources engineers analyze and model very small to very large areas of land to predict the quantity and content of water as it flows into, through, or out of a facility. Although the actual design of the facility may be left to other engineers.

5.Teaching staff

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6. Credits, Grades , and GPA

Credits

Samarra University follows the Bologna Process through the European Credit Transfer System (ECTS). The total number of degree programs awarded through the ECTS is 240, with an average of 30 ECTS per semester. One ECTS is equivalent to 25 student hours of work, including structured and unstructured workload.

Classification

Before evaluation, the results are divided into two subgroups: pass and fail. Thus, the results are independent of students who failed the course. The grading system is defined as follows:

Grading Scheme				
Group	**Degree**	**Appreciation**	**Marks (%)**	**identification**
Success Group (50 - 100)	A - Excellent	privilege	90 - 100	Outstanding performance
	B - Very good	very good	80 - 89	Above average with some errors
	C - Good	good	70 - 79	Work with noticeable errors
	D - Patients	middle	60 - 69	Fair but with major flaws
	H - Enough	acceptable	50 - 59	Work meets minimum standards
Failed group (0 – 49)	FX - Failed	Precipitate - Under central processing	(45-49)	More work needed but credit given
	F - Failure	Failed	(0-44)	A lot of work is required.
Note:				
Decimal places above or below 0.5 will be rounded to the highest or lowest full mark (e.g. a mark of 54.5 will be rounded to 55, while a mark of 54.4 will be rounded to 54). The University has a zero tolerance policy for 'near-pass failures', so the only adjustment to marks awarded by the original examiners will be the automatic rounding described above.				

Calculate cumulative grade point average

1. The GPA is calculated by adding up the grades of each module multiplied by its ECTS, and dividing the total by the programmer's ECTS total.

   4-year Bachelor of Science GPA:
   Cumulative GPA = [(1st module score x ECTS) + (2nd module score x ECTS) + ……] / 240

7. Curriculum/Units

First Semester | 30 credits | 1 credit = 25 hours

The symbol	Module	SSWL	USSWL	European Points System	Type	Pre-request
UOE-1101	Computer	63	12	3	B	
CE112	mathematics	123	127	10	B	
CE113	Engineering drawing	123	77	8	C	
CE114	Construction materials	63	62	5	C	
UOE-1102	Arabic	33	17	2	B	
UOE-12012	Democracy and human rights	33	17	2	B	

Second Semester | 30 credits | 1 credit = 25 hours

The symbol	Module	SSWL	USSWL	European Points System	Type	Pre-request
CE121	Engineering Mechanics	153	147	12	C	
CE122	AutoCAD	78	72	6	S	
CE123	Engineering statistics	63	62	5	B	
CE124	Engineering Geology	63	62	5	C	
UOE-12011	English 1	33	17	2	B	

Third Semester | 30 credits | 1 credit = 25 hours

The symbol	Module	SSWL	USSWL	European Points System	Type	Pre-request
CE211	Strength of Materials I	78	72	6.00	C	CE121
CE212	Fluid Mechanics I	93	57	6.00	S	
CE213	Mathematics II	63	62	5.00	B	
CE214	Engineering Surveying I	93	57	6.00	C	
UOE-2306	English Language II	33	17	2.00	B	
UOE-2304	Computer II	63	12	3.00	B	
UOE-2303	Baath regime crimes in iraq	33	17	2.00	B	

Fourth Semester | 30 credits | 1 credit = 25 hours

The symbol	Module	SSWL	USSWL	European Points System	Type	Pre-request
CE221	Strength of Materials II	78	72	6.00	C	CE211
CE222	Fluid Mechanics II	93	57	6.00	S	CE212
CE223	Concrete Technology	63	37	4.00	C	
CE224	Building Construction	63	37	4.00	C	
CE225	Engineering Economics	63	37	4.00	S	
CE226	Construction Drawing	63	37	4.00	C	
UOE-2305	Arabic II	33	17	2.00	B	

Fifth Semester | 30 credits | 1 credit = 25 hours

The symbol	Module	SSWL	USSWL	European Points System	Type	Pre-request
CE311	Theory of Structures I	63	62	5.00	C	CE221
CE312	Reinforced Concrete Design I	63	62	5.00	C	
CE313	Soil Mechanics I	78	47	5.00	C	
CE314	Num.Eng.analysis	123	77	8.00	S	
CE315	Environmental Engineering	63	37	4.00	C	
CE316	English Language III	48	27	3.00	B	

Sixth Semester | 30 credits | 1 credit = 25 hours

The symbol	Module	SSWL	USSWL	European Points System	Type	Pre-request
CE311	Theory of Structures II	63	62	5.00	C	CE311
CE321	Reinforced Concrete Design II	63	62	5.00	C	CE312
CE322	Soil Mechanics II	78	47	5.00	C	CE313
CE323	Water Resources	63	37	4.00	C	
CE324	Estimation and Construction methods	123	77	8.00	C	
CE325	Engineering Computer Applications	63	12	3.00	B	

Seventh Semester | 30 credits | 1 credit = 25 hours

The symbol	Module	SSWL	USSWL	European Points System	Type	Pre-request
CE411	Sanitary Engineering I	78	47	5.00	C	
CE412	Design of Steel Structures	63	62	5.00	C	CE321
CE413	Foundation Engineering I	63	62	5.00	C	CE323
CE414	Surveying Engineering II	78	47	4.00	C	
CE415	Traffic & Highway Engineering I	93	57	6.00	C	
CE416	Hydraulic Structures	63	37	4.00	C	CE324

Eighth Semester | 30 credits | 1 credit = 25 hours

The symbol	Module	SSWL	USSWL	European Points System	Type	Pre-request
CE411	Sanitary Engineering I	78	47	5.00	C	CE411
CE412	Design of Steel Structures	63	62	5.00	C	CE322
CE413	Foundation Engineering I	63	62	5.00	C	CE413
CE414	Surveying Engineering II	78	47	6.00	C	CE415
CE415	Traffic & Highway Engineering I	93	57	5.00	C	CE325
CE416	Hydraulic Structures	63	37	4.00	C	CE411

8.communication

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