

University of Baghdad

جامعة بغداد



First Cycle – Bachelor's degree (B.Sc.) – Civil Engineering

بكالوريوس هندسة - هندسة مدنية



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1. **Mission & Vision Statement**

Vision Statement

The Department of Civil Engineering at the University of Baghdad seeks to be an essential tributary in preparing professional specialized cadres in the field of civil engineering. The department also aims to have a significant quality performance equivalent to scientific departments in engineering colleges that are accredited by international accreditation bodies to meet the requirements of the university and job market.

Mission Statement

The Department of Civil Engineering aspires to be an active part of the Engineering College scientific system by preparing civil engineers of scientific and practical abilities that comply with the international sound criteria of accreditation and quality assurance. Cooperation, academic exchange programs, and partnerships with other universities and academic centers are considered to achieve optimum outcomes regarding graduate outcomes. The department also aims to develop the scientific research aspect of the faculty members in order to supplement the knowledge and provide the capabilities required to complete engineering experiments by the highest standards of quality for the purpose of consolidating the academic program vocabulary concepts among the students.

2. Program Specification

Programme code:	BSc-Civil Engineering	ECTS	240
Duration:	4 levels, 8 Semesters	Method of Attendance:	Full Time

- a- An ability to apply knowledge of mathematics, science, and engineering.
- b- An ability to design and conduct experiments and field tests, as well as to analyze and interpret data.
- c- An ability to design a system, component, or process to meet desired needs.
- d- An ability to function on multi-disciplinary teams.
- e- An ability to identify, formulate, and solve engineering problems.
- f- An understanding of professional and ethical responsibility.
- g- An ability to communicate effectively.
- h- The broad education necessary to understand the impact of engineering solutions in a global and societal context.
- i- A recognition of the need for, and an ability to engage in life-long learning.
- j- Knowledge of contemporary issues.
- k- An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

3. Program Objectives

1. Graduate highly qualified civil engineers to serve in construction, development, rehabilitation of buildings, and other sectors of the civil engineering field.
2. Improving the education and administrative activities to meet international accreditations standards and the mission of the department.
3. Improving the academic abilities of the faculty and attracting highly skilled personnel.
4. Improve the abilities of management and technical supporting staff and attract the highly skilled for employment.
5. Optimum use of department resources and potentials.
6. Cooperation, academic exchange programs, and partnerships with other universities and academic centers in scientifically progressed countries.
7. Establishing viable applied research that generates knowledge and benefit for local and foreign markets.

8. Student Learning Outcomes

Outcome 1

An ability to observe, formulate, and solve civil engineering problems by applying engineering, science, and mathematics principles.

Outcome 2

An ability to produce civil engineering designs that meet desired needs within safety, economy, and serviceability limitations by applying both analysis and design procedures.

Outcome 3

An ability to perform proper measurements and tests based on different standards and specifications, then analyze the results and use engineering judgment to make decisions.

Outcome 4

An ability to communicate effectively with different individuals.

Outcome 5

An ability to understand ethical and professional responsibilities in engineering conditions and make smart judgments that take into consideration the effect on worldwide financial, ecological, and societal considerations.

Outcome 6

An ability to realize the current civil engineering issues, recognize the necessity for continual professional knowledge growth, and use modern techniques, skills, and tools in engineering practice.

Outcome 7

An ability to work effectively in multi-disciplinary teams, set up objectives, plan activities, meet deadlines, and manage risk and uncertainty.

9. Academic Staff

No	Faculty Member Name	Highest Degree Earned-Field	Email	Mobile no.
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10. Credits, Grading and GPA

Credits

Baghdad University is following the Bologna Process with the European Credit Transfer System (ECTS) credit system. The total degree program number of ECTS is 240, 30 ECTS per semester. 1 ECTS is equivalent to 25 hrs student workload, including structured and unstructured workload.

Grading

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

GRADING SCHEME				
مخطط الدرجات				
Group	Grade	التقدير	Marks (%)	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 - 49)	FX – Fail	راسب - قيد المعالجة	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required
Note:				
Number Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.				

Calculation of the Cumulative Grade Point Average (CGPA)

- The CGPA is calculated by the summation of each module score multiplied by its ECTS, all are divided by the program total ECTS.

CGPA of a 4-year B.Sc. degree:

$$CGPA = [(1st^{th} \text{ module score} \times ECTS) + (2nd^{th} \text{ module score} \times ECTS) + \dots] / 240$$

11. Curriculum/Modules

Semester 1 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
CE101	Engineering Mechanics/1	93	82	7.00	C	
CE103	Building Material/1	63	37	4.00	C	
CE107	Mathematics/ 1	63	62	5.00	S	
CE109	Physics Fundamentals	33	17	2.00	S	
CE110	Engineering Drawing	108	67	7.00	S	
UOB103	Computer science/ 1	48	27	3.00	B	
UOB104	Human Rights & Democracy	33	17	2.00	B	

Semester 2 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
CE102	Engineering Mechanics/2	93	82	7.00	C	CE101
CE104	Building Material/2	63	37	4.00	C	CE103
CE105	Engineering Geology	78	47	5.00	S	
CE106	Engineering statistics	63	62	5.00	S	
CE108	Mathematics/ 2	63	62	5.00	S	CE107
UOB102	English Language/ 1	33	17	2.00	B	
UOB101	Arabic Language	33	17	2.00	B	

Semester 3 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
CE201	Engineering Surveying /1	78	22	4.00	C	
CE203	Fluid Mechanics/1	63	37	4.00	S	CE109
CE205	Mechanics of Materials/1	63	87	6.00	C	CE101
CE208	Concrete Technology/1	63	37	4.00	C	CE104
CE210	Mathematics/3	63	62	5.00	S	CE108
UOB201	Arabic Language/2	33	17	2.00	B	UOB101
UOB204	Baath Regime Crimes in Iraq	33	17	2.00	B	
UOB203	Computer science/ 2	48	27	3.00	S	UOB103

Semester 4 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
CE202	Engineering Surveying /2	78	22	4.00	C	CE201
CE204	Fluid Mechanics/2	63	62	5.00	S	CE203
CE206	Mechanics of Materials/2	63	87	6.00	C	CE205
CE209	Concrete Technology /2	63	37	4.00	C	CE208
CE207	Building Construction	78	22	4.00	C	
CE211	Mathematics /4	63	62	5.00	S	CE210
UOB202	English Language 2	33	17	2.00	B	UOB102

Semester 5 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
CE301	Structural Analysis/ 1	63	62	5.00	C	CE206
CE303	Soil Mechanics/1	78	72	6.00	C	CE105
CE305	Reinforced Concrete Design/1	63	62	5.00	C	CE209
CE308	Water Resources & Hydrology	108	67	7.00	C	CE204
CE310	Eng. Management and Economy	63	37	4.00	C	CE207
CE311	Computer Application/1	33	17	2.00	S	CE206
CE314	Workshop	18	7	1.00	S	

Semester 6 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
CE302	Structural Analysis/ 2	63	62	5.00	C	CE301
CE304	Soil Mechanics/2	78	72	6.00	C	CE303
CE306	Reinforced Concrete Design/2	63	62	5.00	C	CE305
CE307	Engineering Analysis & Numerical methods	78	47	5.00	S	CE211
CE309	Traffic Engineering	93	32	5.00	C	CE202
CE312	Computer Application/2	33	17	2.00	S	CE310
UOB301	English Language3	33	17	2.00	B	UOB202

Semester 7 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
CE401	Structural Design1	153	97	10.00	C	CE302,CE306
CE403	Foundation Engineering1	63	62	5.00	C	CE304
CE405	Transportation Engineering/1	63	62	5.00	C	CE309
CE407	Sanitary and Environmental Engineering1	63	62	5.00	C	CE308
CE409	Construction Methods	33	42	3.00	C	CE310
CE411	Engineering Project1	30	20	2.00	C	

Semester 8 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
CE402	Structural Design2	123	77	8.00	C	CE401
CE404	Foundation Engineering2	63	62	5.00	C	CE403
CE406	Transportation Engineering/2	63	62	5.00	C	CE405
CE408	Sanitary and Environmental Engineering2	63	62	5.00	C	CE407
CE410	Quantity Surveying	33	42	3.00	C	CE310
CE412	Engineering Project2	30	20	2.00	C	CE411
UOB401	English Language4	33	17	2.00	B	UOB301

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