Al-Farabi University Collage

كلية الفارابي الجامعة

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 Al-Farabi University Collage 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.
1	Waleed Mustafa Khammas	PhD Prof. Construction Management	waled.mostafa@alfarabiuc.edu.iq	07701995650
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11	Safa Alaa Hussein	M.Sc. Asst. lecturer Soil Mechanics and Foundation Engineering	safa.alla@alfarabiuc.edu.iq	07714583500
12	Haneen majid Dahham	M.Sc. Asst. lecturer Sanitary Engineering	hanin.majid@alfarabiuc.edu.iq	07817499137
13	Azhar Mosleh Hamad	M.Sc. Asst. lecturer Master of Laws	azhar.musleh@alfarabiuc.edu.iq	0772 263 7111

10. Credits, Grading and GPA

Credits

Al-Farabi University Collage 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)

1. 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 module score x ECTS) + (2nd module score x ECTS) + ……] / 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	
CO101	Mathematics/ 1	63	62	5.00	S	
CO103	Physics Fundamentals	33	17	2.00	S	
CO104	Engineering Drawing	108	87	7.00	S	
UOB101	Computer science/ 1	47	28	3.00	B	
GE02	Human Rights & Democracy	32	18	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	72	6.00	S	
CE106	Engineering statistics	63	62	5.00	S	
CO102	Mathematics/ 2	63	62	5.00	S	CO101
GE03	English Language/ 1	32	18	2.00	B	
CO203	Workshop	32	18	2.00	S	

Semester 3 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
CE201	Engineering Surveying /1	78	47	5.00	C	
CE203	Fluid Mechanics/1	63	62	5.00	S	CO103
CE205	Mechanics of Materials/1	63	87	6.00	C	CE101
CE208	Concrete Technology/1	63	37	4.00	C	CE104
CO201	Mathematics/3	63	62	5.00	S	CO102
	جرائم حزب البعث	32	18	2.00	B	
UOB201	Computer science/ 2	47	28	3.00	S	UOB101

Semester 4 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
CE202	Engineering Surveying /2	78	47	5.00	C	CE201
CE204	Fluid Mechanics/2	63	37	4.00	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	
CO202	Mathematics /4	63	62	5.00	S	CO201
GE04	English Language 2	32	18	2.00	B	GE03

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 Recourses& 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
GE01	Arabic Language	17	8	1.00	B	

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	CO202
CE309	Traffic Engineering	93	32	5.00	C	CE202
CE312	Computer Application/2	33	17	2.00	S	CE310
GE05	English Language3	32	18	2.00	B	GE04

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
CO401	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
CO402	Engineering Project2	30	20	2.00	C	CO401
GE06	English Language4	32	18	2.00	B	GE05

12. Contact

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