

University of Mosul

جامعة الموصل



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

بكالوريوس علوم - هندسة مدنية



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1. Vision & Mission Statement

Vision Statement

The civil engineering academic staff of the Natural and Behavioral Sciences Division at Mosul University believe that students come to understand the discipline of civil engineering through a combination of course work, laboratory experiences, research, and fieldwork. The combination of instructional methods leads students to a balanced understanding of the scientific methods used by civil engineers to make observations, develop insights and create theories about the civil engineering discipline. Small class sizes within the civil engineering program foster a close working relationship between academic staff and students in an informal and nurturing atmosphere.

Mission Statement

The civil engineering academic staff pursues a multifaceted charge at Mosul University. The Program seeks to provide all civil engineering students with fundamental knowledge of civil engineering, as well as a deeper understanding of a selected focus area within the civil engineering science. The curriculum and advising have been designed to prepare graduates for their professional future, whether they choose to work as a site engineer specializing in structures, geotechnical, or highways, or to pursue advanced degrees in the discipline. The civil engineering program also provides the necessary fundamental knowledge of the Environmental Studies degree. In addition, civil engineering courses provide a key laboratory science experience for those students seeking to complete the general education requirements

2. Program Specification

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

Civil engineering is a wonderfully wide-ranging subject, and Mosul University, with one of the Iraqi's largest and most diverse civil engineering teaching groups, is well equipped to deliver. The emphasis of the programme is the whole infrastructures to which everything is related, be it the projects from planning, design to implementations as well as maintenance. The degree is popular - –or some it's' the breadth of the subject that appeals, for others it's a path to specialization.

Level 1 exposes students to the fundamentals of Engineering, suitable for progression to all programmes within the civil engineering programme group. Programme-specific core topics are covered at Level 2 preparing for research-led subject specialist modules at Levels 3 and 4. A Mosul University civil engineering graduate is therefore trained to appreciate how research informs teaching, according to the University and School Mission statements.

At Levels 2, 3 and 4 students are free to choose more than half of their module credits with the proviso a range of modules are selected that reflect the complexity of life forms from molecules. This allows

students to develop their own wide-ranging interests in civil engineering discipline. Decisions on what to study are made with input from personal tutors.

The research is developed and fostered from the start via practical, which are either embedded in lecture modules or taught in dedicated practical modules, research seminars and tutorials. There is a compulsory field course in Level 1, which students must pass in order to progress into Level 2, and optional field courses in Levels 2, 3 and 4. At Level 4 all students carry out an independent research project, which may be a xx credit library or data analysis project, or a xx credit field or laboratory based project.

Academic tutorials are held at Levels 1 and 2 with the same tutor, who is also the personal tutor, providing continuity and progressive guidance. Level 1 and 2 tutorials include a number of workshops to teach skills, e.g. library use and presentation skills, followed by assessed exercises, e.g. essays and talks, as opportunities to practice these skills in a subject-specific context.

International years and Industrial placements are also offered and individual needs are discussed with the appropriate tutor and accommodated wherever possible.

3. Program Goals

1. To provide a comprehensive education in civil engineering that stresses scientific reasoning and problem solving across the spectrum of disciplines within civil engineering.
2. To prepare students for a wide variety of post-baccalaureate paths, including graduate school, professional training programs, or entry level jobs in any area of civil engineering
3. To provide extensive hands-on training in electronic technology, statistical analysis, laboratory skills, and field techniques.
4. To provide thorough training in written and oral communication of scientific information
5. To enrich students with opportunities for alternative education in the area of civil engineering through undergraduate research, internships, and study-abroad.

4. Student Learning Outcomes

Civil engineering is the application of physical and scientific principles for the design, development and maintenance of both the constructed and the naturally built environment. This includes infrastructure such as airports, bridges, buildings, canals, dams, pipelines, power plants, railways, roads, sewage systems, and more. Graduates obtain information on the historical, technical and social aspects of civil engineering and utilize basic knowledge toward realizing broader concepts. The Department offers a Bachelor of Science in civil engineering. Additionally, the department offers courses to a large number of students from other departments and supports pre-professional programs. The civil engineering curriculum and experiences are designed to prepare students, in part, for entry into professional graduate studies, working industrials as site engineers, construction engineers, designers, technical careers, etc.

Outcome 1*Oral and Written Communication*

Graduates will be able to formally communicate the results of civil engineering investigations using both oral and written communication skills.

Outcome 2*Laboratory and Field Studies*

Graduates will be able to perform laboratory experiments and field studies, by using scientific equipment and computer technology while observing appropriate safety protocols.

Outcome 3*Scientific Knowledge*

Graduates will be able to demonstrate a balanced concept of how scientific knowledge develops, including the historical development of foundational theories and laws and the nature of science.

Outcome 4*Data Analyses*

Graduates will be able to demonstrate scientific quantitative skills, such as the ability to conduct simple data analyses.

Outcome 5*Offices and industrials*

Graduates will be able to work in offices during preparing planning, designing phase of a project. Graduates will be able to work in industrial (site engineer) during implementation of a project.

Outcome 6*Critical Thinking*

Graduates will be able to use critical-thinking and problem-solving skills to solve problems they faced efficiently (in industrials) and to develop a research project and/or paper (in academia).

5. Academic Staff

Abdulhahim Ibrahim Jasim Alhadidi | Ph.D. in Civil Engineering | Professor

Email: alhadidy@uomosul.edu.iq

Mobile no.: +964 773 697 6711

Moataz Abduljabbar Al-Obaydi | Ph.D. in Civil Engineering | Professor

Email: dralobaydi@uomosul.edu.iq

Mobile no.: +964 773 697 6939

Ayman Abdulhadi Ahmed | Ph.D. in Civil Engineering | Professor

Email: aymanmawjoud@uomosul.edu.iq

Mobile no.: +964 773 697 6940

Suhaib Yahia Al-Durzi | Ph.D. in Civil Engineering | Professor

Email: suhaib.qasim@uomosul.edu.iq

Mobile no.: +964 770 538 2088

Amina Ahmed Khalil | M.Sc. in Civil Engineering | Professor

Email: amina.alshumam@uomosul.edu.iq

Mobile no.: +964 770 199 5307

Abdulrahman Hani Aldaood | Ph.D. in Civil Engineering | Professor

Email: abdulrahman.aldaood@uomosul.edu.iq

Mobile no.: +964 773 697 7289

Salwa Mubarak Hanna | Ph.D. in Civil Engineering | Professor

Email: salwa_hano@uomosul.edu.iq

Mobile no.: +964 750 839 5499

Sufian Younis Ahmed | Ph.D. in Civil Engineering | Professor

Email: sofyan1975@uomosul.edu.iq

Mobile no.: +964 770 165 3742

Mohammed Yaseen Taha | Ph.D. in Civil Engineering | Assistant Professor

Email: mohammedtaha@uomosul.edu.iq

Mobile no.: +964 770 538 2088

Mohammed Ahmed Hammodi | Ph.D. in Civil Engineering | Assistant Professor
Email mohammad66ah@uomosul.edu.iq
Mobile no.: +964 770 173 1224

Rabi Moaid Najim | Ph.D. in Civil Engineering | Assistant Professor
Email dr.rabi.najem@uomosul.edu.iq
Mobile no.: +964 773 850 1082

Asaad Mohammed Al-Omari | Ph.D. in Civil Engineering | Assistant Professor
Email asaad.alomari@uomosul.edu.iq
Mobile no.: +964 773 697 6718

Jasim Ali Abdullah | Ph.D. in Civil Engineering | Assistant Professor
Email jassim24676@uomosul.edu.iq
Mobile no.: +964 770 335 5939

Muwafaq Abbo Awad | Ph.D. in Civil Engineering | Assistant Professor
Email mfgawad2015@uomosul.edu.iq
Mobile no.: +964 773 901 7533

Oday Assal Saleh | Ph.D. in Civil Engineering | Assistant Professor
Email odaycivileng@uomosul.edu.iq
Mobile no.: +964 773 697 6786

Ashtar Salih Ahmed | M.Sc. in Civil Engineering | Assistant Professor
Email aziztaher@uomosul.edu.iq
Mobile no.: +964 773 697 6879

Ayman Talib Hameed | Ph.D. in Civil Engineering | Assistant Professor
Email ayman.th@uomosul.edu.iq
Mobile no.: +964 773 697 6937

Hala Jasim Mohammed | Ph.D. in Civil Engineering | Assistant Professor
Email Engrehal.1984@uomosul.edu.iq
Mobile no.: +964 773 697 6871

Baraa Jabbar Mahmood | Ph.D. in Civil Engineering | Assistant Professor
Email baraa_alhasan@uomosul.edu.iq
Mobile no.: +964 771 514 4088

Mohammed Thanoon Younis | Ph.D in Mathematics | Assistant Professor
Email mohammedmth@uomosul.edu.iq
Mobile no.: +964 770 181 5760

Khawla Ahmed Khalil | Ph.D. in Civil Engineering | Assistant Professor
Email Khawlah.ahmad@uomosul.edu.iq
Mobile no.: +964 770 175 8195

Qutayba Nazar Al-saffar | Ph.D. in Civil Engineering | Assistant Professor
Email Dr.qutayba@uomosul.edu.iq
Mobile no.: +964 770 163 2315

Mohammed Nathem Jaro | Ph.D. in Civil Engineering | Assistant Professor
Email m.jaro@uomosul.edu.iq
Mobile no.: +964 773 697 7251

Nadia Siddeek Al-Saffar | Ph.D. in Civil Engineering | Lecturer
Email nadiya.alsaffar@uomosul.edu.iq
Mobile no.: +964 773 697 7287

Yazin Abdulellah Mustafa | Ph.D. in Civil Engineering | Lecturer
Email yazinalnajjar@uomosul.edu.iq
Mobile no.: +964 773 697 6865

Iman Khalid Ibrahim | Ph.D. in Civil Engineering | Lecturer
Email emankhalid33@uomosul.edu.iq
Mobile no.: +964 751 234 2199

Mohammed Kamil Faris | Ph.D. in Civil Engineering | Lecturer
Email mohammed.kamil@uomosul.edu.iq
Mobile no.: +964 772 412 7231

Ibtisam Hazem Hassan | M.Sc. in Civil Engineering | Lecturer

Email ibtessam_alzubady_b_s@uomosul.edu.iq

Mobile no.: +964 770 200 0886

Nuha Humaidi Jasim | M.Sc. in Civil Engineering | Lecturer

Email nuhahameedi.nh@uomosul.edu.iq

Mobile no.: +964 773 697 6929

Ahmed Abduljabbar Alduboni | M.Sc. in Civil Engineering | Lecturer

Email a.aldubony@uomosul.edu.iq

Mobile no.: +964 773 697 6950

Sura Abdulrazzakh Majeed | M.Sc. in Civil Engineering | Lecturer

Email suraalnuaimi75@uomosul.edu.iq

Mobile no.: +964 770 165 9052

Zeena Adel Mohammed | M.Sc. in Civil Engineering | Lecturer

Email Zena.adal@uomosul.edu.iq

Mobile no.: +964 771 044 1494

Mohammed Nawaf Alzubaidy | M.Sc. in Civil Engineering | Lecture

Email mohammednawaf@uomosul.edu.iq

Mobile no.: +964 770 416 7202

Revan Naheth Wadee | M.Sc. in Civil Engineering | Lecturer

Email revan.nahith@uomosul.edu.iq

Mobile no.: +964 773 850 1303

Mohammed Ghanim Jamel | M.Sc. in Civil Engineering | Lecturer

Email mohammed_g72@uomosul.edu.iq

Mobile no.: +964 773 697 6935

Zeen Ahmed Al-Khazzaz | M.Sc. in Civil Engineering | Lecturer

Email zeena.kazzaz@uomosul.edu.iq

Mobile no.: +964 770 169 9887

Rakan Farook Kasim | Ph.D. in Economics and Management | Lecturer

Email rakanalmola75@uomosul.edu.iq

Mobile no.: +964 773 697 6854

Mohammed S. al Jawahery | Ph.D. in Civil Engineering | Lecturer

Email mohammed.aljawahery@uomosul.edu.iq

Mobile no.: +964 773 573 7807

Riffa D Shlla | M.Sc. in Civil Engineering | Assistant Lecturer

Email reffashlla@uomosul.edu.iq

Mobile no.: +964 783 510 8481

Ahmed Ibraheem Mohammed | M.Sc. in Civil Engineering | Assistant Lecturer

Email ahmed_alobadee@uomosul.edu.iq

Mobile no.: +964 770 164 5664

Abdulnasser Younus Ali Alshuwaykhi | M.Sc. in Civil Engineering | Assistant Lecturer

Email abdulnasser.alshuwaykhi@uomosul.edu.iq

Mobile no.: +964 773 031 2448

Rowida S. K. Al-khafaji | M.Sc. in Civil Engineering | Assistant Lecturer

Email rowida.alkhafaji@uomosul.edu.iq

Mobile no.: +964 774 092 6615

Shahad Nathim sheet Al-Dulaimy | M.Sc. in Architectural Engineering | Assistant Lecturer

Email shahad.sheet@uomosul.edu.iq

Mobile no.: +964 771 548 7994

Mohammad A. AL-Mohammad | M.Sc. in Civil Engineering | Assistant Lecturer

Email maaa@uomosul.edu.iq

Mobile no.: +964 772 444 4123

Atheer Khudhur Juma | M.Sc. in Civil Engineering | Assistant Lecturer

Email atheer.khudhur@uomosul.edu.iq

Mobile no.: +964 776 941 9649

Musaab Sami Younus | Architectural Engineering | Assistant Lecturer

Email musaab.sami.y@uomosul.edu.iq

6. Credits, Grading, and GPA

Credits

Mosul 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)

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

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

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

7. Curriculum/Modules

Semester 1 | 30 ECTS | 1 ECTS = 25 hrs.

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
CE101	Mathematics I	78	72	6.00	C	
CE102	Engineering Mechanics I	78	72	6.00	C	
CE103	Engineering Drawing I	63	62	5.00	C	
CE104	Geology	63	87	6.00	C	
CE105	Statistics I	33	42	3.00	B	
UOM1040	Democracy and Human Rights	33	17	2.00	S	
UOM1021	English Language 1	33	17	2.00	S	

Semester 2 | 30 ECTS | 1 ECTS = 25 hrs.

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
CE106	Mathematics II	78	97	7.00	C	
CE107	Engineering Mechanics II	78	97	7.00	C	
CE108	Engineering drawing II	63	87	6.00	C	
UOM1031	Computer 1	48	27	3.00	B	
CE109	Statistics II	33	42	3.00	B	
CE110	Electrical Engineering	33	17	2.00	B	
UOM1011	Arabic Language 1	33	17	2.00	S	

Semester 3 | 30 ECTS | 1 ECTS = 25 hrs.

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
CE201	Mathematics III	63	62	5.00	C	
CE202	Mechanics of Materials I	63	62	5.00	C	CE102, CE107
CE203	Fluid mechanics	63	62	5.00	B	
CE204	Concrete technology I	63	62	5.00	C	
CE205	Engineering surveying I	78	72	6.00	C	
UOM2050	Crimes of the Baath Regime in Iraq	33	17	2.00	S	
UOM2012	Arabic Language 2	33	17	2.00	S	

Semester 4 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
CE206	Mathematics IV	63	62	5.00	C	
CE207	Mechanics of Materials II	78	72	6.00	C	CE102, CE107
CE208	Building construction and damages assessment	48	27	3.00	C	
CE209	Concrete technology II	63	62	5.00	C	
CE210	Engineering surveying II	78	72	6.00	C	
UOM2032	Computer 2	48	27	3.00	B	
UOM2022	English Language 2	33	17	2.00	S	

Semester 5 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
CE301	Differential Equations	48	52	4.00	C	
CE302	Theory of Structures I	63	62	5.00	C	
CE303	Soil Mechanics I	78	72	6.00	C	
CE304	Reinforced Concrete I	63	62	5.00	C	CE202, CE207
CE305	Highway Engineering I	63	62	5.00	C	
CE306	Engineering Project Management	33	17	2.00	B	
CE307	Hydrology	33	42	3.00	B	

Semester 6 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
CE308	Numerical Analysis	48	52	4.00	C	
CE309	Theory of Structures II	63	62	5.00	C	
CE310	Soil Mechanics II	78	72	6.00	C	
CE311	Reinforced Concrete II	63	62	5.00	C	CE202, CE207
CE312	Highway Engineering II	63	62	5.00	C	
CE313	Hydraulic Structures	33	42	3.00	C	
CE314	Engineering Project Design and Planning	33	17	2.00	C	

Semester 7 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
CE401	Design of Reinforced Concrete Structures I	63	87	6.00	C	CE304, CE311
CE402	Foundation Engineering I	63	87	6.00	C	
CE403	Steel Design I	63	87	6.00	C	
CE404	Traffic Engineering I	33	67	4.00	C	
CE405	Structural Drawing	33	42	3.00	C	
CE406	Applied Chemistry	33	17	2.00	C	
CE407	Engineering Project I	32	43	3.00	C	

Semester 8 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
CE408	Design of Reinforced Concrete Structures II	63	87	6.00	C	CE304, CE311
CE409	Foundation Engineering II	63	87	6.00	C	
CE410	Steel Design II	63	87	6.00	C	
CE411	Traffic Engineering II	33	67	4.00	C	
CE412	Estimation	33	42	3.00	C	
CE413	Environmental and Sanitary Engineering	33	17	2.00	C	
CE414	Engineering Project II	32	43	3.00	C	

8. **Contact**

Program Manager:

Dr. Baraa J.M. AL-Eliwi | Ph.D. in Structures | Assistant Professor

Email: baraa_alhasan@uomosul.edu.iq

Mobile no.: +9647715144088

Program Coordinator:

Dr. Dr. Mohammed S. Al Jawahery | PhD in Structures | Lecturer

Email: mohammed.aljawahery@uomosul.edu.iq

Mobile no.: 00964 77735737807
