

Programme Catalogue

College Name	College Abbreviation
College of Engineering	ENG
Department Name (in English)	Department Abbreviation
Civil Engineering	ECiv
Department Name (in Kurdish)	
ئه‌ندازياريا شارستاني	
Department Name (in Arabic)	
الهندسة المدنية	
1. Qualification awarded	
Bachelor of Science (B.Sc.) in Civil Engineering	
2. Length of programme	
4 years (8 semesters)	
3. Number of credits	
240 ECTS credits	
4. Level of qualification according to the National Qualification Framework and the European Qualifications Framework	
Level 6 of the National Qualifications Framework and the European Qualifications Framework (Bachelor's degree)	
5. Field(s) of study (e.g. ISCED-F)	
- ISCED-F Code: 0732 – Building and Civil Engineering - Broad Field: 07 – Engineering, Manufacturing and Construction - Narrow Field: 073 – Architecture and Construction The Civil Engineering Programme at the University of Duhok is classified under ISCED-F 0732 (Building and Civil Engineering), covering structural, geotechnical, transportation, environmental, water resources, construction, and surveying engineering disciplines.	
6. Specific admission requirements (if applicable)	
Applicants must hold a recognised secondary school certificate or its equivalent. Admission is centrally managed through the Kurdistan Regional Ministry of Higher Education's ZankoLine system to ensure transparency and equal opportunities. Strong performance in mathematics and science subjects are typically required.	
7. Specific arrangements for recognition of prior learning (formal, non-formal and informal) (if applicable)	
The University of Duhok follows the European Credit Transfer and Accumulation System (ECTS) guidelines. Credits may be awarded for learning outcomes acquired through work experience, voluntary work or independent study when they meet programme requirements. Assessment methods verify the achievement of learning outcomes rather than attendance of specific learning activities, and the same number of ECTS credits is awarded as the corresponding part of the formal programme.	
8. Qualification requirements and regulations, including graduation requirements	
To graduate students must successfully complete all compulsory and elective modules, including a final-year project and an internship, and accumulate 240 ECTS credits over four years. Student assessment combines formative (50 %) and summative (50 %) evaluations. The summative component typically comprises a mid-term examination (around 20 %) and a final examination (approximately 50 %). A minimum mark of 50 % in each module is required for to successfully pass	
9. Profile of the programme	
The B.Sc. programme offers a general specialisation in civil engineering. It offers a four-year Bachelor of Science (B.Sc.) degree structured over eight semesters. Students study	

core areas including structural, geotechnical, transportation, environmental, surveying, and water resources engineering. The curriculum integrates strong theoretical foundations with laboratory and practical training. Design projects and applied coursework enhance problem-solving and teamwork skills. The department also offers Master's and Ph.D. programmes in specialized civil engineering fields. Research activities address regional infrastructure and environmental challenges. Graduates are prepared for careers in construction, consultancy, public service, and academia. The Department of Civil Engineering strives to maintain high academic standards and contribute to national development.

10. Programme Educational Objectives

1. **Professional Competence:** Prepare graduates with strong technical knowledge and skills to analyze, design, and manage civil engineering projects effectively.
2. **Ethics & Leadership:** Develop responsible engineers who demonstrate ethical practice, leadership, and effective communication in multidisciplinary teams.
3. **Sustainable Practice:** Equip graduates to apply sustainable and innovative engineering solutions that address societal and environmental needs.
4. **Lifelong Learning:** Encourage continuous professional development, research engagement, and pursuit of advanced studies.
- 5.

11. Programme learning outcomes

1. **Engineering Knowledge:** Apply mathematics, natural sciences, and engineering principles to solve complex civil engineering problems.
2. **Problem Analysis:** Identify, formulate, and analyze civil engineering challenges using appropriate analytical and computational methods.
3. **Design & Development:** Design safe and sustainable infrastructure systems that meet specified needs while considering public health, safety, and environmental impacts.
4. **Investigation & Experimentation:** Conduct experiments, analyze data, and interpret results to improve engineering solutions.
5. **Modern Tool Usage:** Utilize contemporary engineering software, laboratory equipment, and digital technologies effectively.
6. **Ethics & Professional Responsibility:** Demonstrate ethical conduct, accountability, and understanding of professional standards.
7. **Communication & Teamwork:** Work effectively in multidisciplinary teams and communicate technical information clearly.
8. **Lifelong Learning:** Engage in continuous professional development and adapt to emerging technologies and industry practices.
- 9.

12. Programme structure diagram with credits

Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8
Physics for Engineers ECiv.B111C 6 ECTS	Engineering Mechanics ECiv.B121C 6 ECTS	Strength of Materials ECiv.B211C 6 ECTS	Structural Mechanics ECiv.B221C 6 ECTS	Theory of Structure ECiv.B311C 6 ECTS	Reinforced Concrete Fundamentals ECiv.B321C 6 ECTS	Reinforced Concrete Design ECiv.B411C 6 ECTS	Design of Concrete Structures ECiv.B421C 6 ECTS
Calculus I ECiv.B112C 6 ECTS	Calculus II ECiv.B122C 6 ECTS	Fundamental of Surveying ECiv.B212H 6 ECTS	Engineering Surveying ECiv.B222H 6 ECTS	Soil Mechanics ECiv.B312H 6 ECTS	Geotechnical Engineering ECiv.B322C 5 ECTS	Foundation Engineering ECiv.B412C 6 ECTS	Estimation & Construction Drawing ECiv.B422C 6 ECTS
Engineering Geology ECiv.B113H 6 ECTS	Construction Materials ECiv.B123H 6 ECTS	Engineering Mathematics ECiv.B213C 5 ECTS	Building Construction and Methods ECiv.B223C 6 ECTS	Road Geometric Design ECiv.B313C 6 ECTS	Pavement Engineering ECiv.B323H 6 ECTS	Steel Design ECiv.B413C 5 ECTS	Internship ECiv.B423F 6 ECTS
Engineering Drawing ECiv.B114L 4 ECTS	Computer Skills ECiv.B124H 4 ECTS	Fluid Mechanics ECiv.B214H 5 ECTS	Fluid Kinematics ECiv.B224H 5 ECTS	Engineering Analysis and Numerical Methods ECiv.B314C 4 ECTS	Dams and Reservoirs ECiv.B324C 4 ECTS	Sanitary Engineering ECiv.B414C 5 ECTS	Engineering Project ECiv.B424P 12 ECTS
English Language I ECiv.B115C 4 ECTS	Academic Debate ECiv.B125H 4 ECTS	Concrete Technology ECiv.B215H 4 ECTS	Engineering Management and Economy ECiv.B225C 4 ECTS	Engineering Hydrology ECiv.B315C 4 ECTS	Water Supply Management ECiv.B325C 5 ECTS	Hydraulic Structures ECiv.B415C 4 ECTS	
Kurdology ECiv.B116C 4 ECTS	English Language II ECiv.B126C 4 ECTS	Environmental Engineering ECiv.B216C 4 ECTS	Engineering Statistics ECiv.B226C 4 ECTS	Building Services ECiv.B316C 4 ECTS (Elective)	GIS Applications ECiv.B326H 4 ECTS (Elective)	Surveying Data Acquisition ECiv.B416H 4 ECTS (Elective)	
				Irrigation Engineering ECiv.B317C 4 ECTS (Elective)	Photogrammetry ECiv.B327H 4 ECTS (Elective)	Traffic Engineering ECiv.B417C 4 ECTS (Elective)	

13. Mode of Study

Full time on campus

14. Examination regulations and grading scale

The following grading scale is used:

% Points	Grade
90 – 100	Excellent
80 - < 90	Very Good
70 - < 80	Good
60 - < 70	Medium
50 - < 60	Pass
0 - < 50	Fail

15. Mobility window (if applicable)

N/A

16. Work placement(s)/internships (if applicable)

A supervised industrial internship is compulsory in the eighth semester. Students work with local or regional industries, construction companies or governmental directories to apply theoretical knowledge to real engineering problems, develop professional skills and gain insight into the civil engineering profession.

17. Work-based learning (if applicable)

Work-based learning is integrated into the Civil Engineering programme to bridge theory and professional practice. Students participate in site visits, laboratory training, and supervised fieldwork in collaboration with industry and public sector organizations. A structured summer training programme provides hands-on experience in construction projects and engineering offices. Students apply classroom knowledge to real infrastructure challenges under professional supervision. This experience enhances technical competence, teamwork skills, and readiness for employment after graduation.

18. Programme director or equivalent		
Dr. Shawkat Ahmed Yaseen Kochary (PhD) – Assistant Professor and Head of the Civil Engineering Department (specialisation in Environmental Engineering). Email: shawkat.kochary@uod.ac ; phone: +9647503027515 .		
19. Occupational profiles of graduates		
Graduates of the Civil Engineering Programme are qualified to work in diverse professional roles within the public and private sectors. They may serve as structural, geotechnical, transportation, water resources, and environmental engineers contributing to the design and development of infrastructure projects. Graduates can also work as surveying engineers conducting land surveying, mapping, and construction layout. Many pursue careers as site engineers, materials and quality control engineers, or construction project managers overseeing implementation and compliance. In addition, opportunities exist in consultancy services, research institutions, and academic careers through postgraduate studies.		
20. Access to further studies		
Holders of the B.Sc. degree in Civil Engineering are eligible for postgraduate studies at Master's (Level 7) and Doctoral (Level 8) levels in civil engineering or related fields..		
21. Academic Staff		
Name and Degree	Title and Position	Contacts
Shawkat Ahmed Yaseen Kochary PhD	Assistant Professor Head of the Department of Civil Engineering	+9647503027515 shawkat.kochary@uod.ac
Jowhar Rasheed Mohammad PhD	Professor	+9647504505377 jowhar.mohammad@uod.ac
Bshkoj Sidqi Hussein PhD	Assistant Professor Academic Staff Representative at the College of Engineering	+9647504809008 bshkoj.hussein@uod.ac
Dawood Sulaiman Atrushi PhD	Assistant Professor The President of the University	+9647504551344 dawood.atrushi@uod.ac
Nashwan Shawkat Mahmood PhD	Assistant Professor Dean of the College of Engineering	+9647504580332 nashwan.mahmood@uod.ac
Dilshad Abdul Jabbar Haleem PhD	Assistant Professor Vice President for Administrative and Financial Affairs	+9647504676006 dilshad.haleem@uod.ac
Abdulhameed Abdullah Yaseen PhD	Assistant Professor	+9647504508421 abdulhameed.yaseen@uod.ac
Sarhat Mustafa Adam PhD	Assistant Professor	+9647504574691 sarhat.adam@uod.ac
Nasreen Ahmed Hussein PhD	Assistant Professor	+9647504819310 nasreen.hussein@uod.ac
Nahla Hussein Aswad PhD	Assistant Professor	+9647504819431 nahla.alaswadko@uod.ac
Mohammed Salih Hussain	Assistant Professor	+9647504588464

PhD	Representative of the College of Engineering in the Editorial Board of UoD Journal	mohammed.hussain@uod.ac
Ali Abduljabbar Yousif PhD	Assistant Professor	+9647502148465 ali.yousif@uod.ac
Evan Abdulrahman Haji Ali Hajani PhD	Assistant Professor	+9647502337578 evan.hajani@uod.ac
Jihan Mahmood Qasim Master	Assistant Professor	+9647504281028 Jihan.mahmood@uod.ac
Abduljabbar Ismael Abdy PhD	Lecturer Director of the Research Center at the College of Engineering	+9647504507781 abduljabbar.abdy@uod.ac
Amal M. Taher Abdul Rahman PhD	Lecturer	+9647729615501 amal.taher@uod.ac
Baran Ramadhan Omer PhD	Lecturer	+9647504285216 baran.omer@uod.ac
Bayar Najeeb Abdulrazaq PhD	Lecturer	+9647504507782 bayar.mohammed@uod.ac
Dilshad Ali Mohammed PhD	Lecturer Head of Scientific Affairs and Postgraduate Studies Unit	+9647504739016 dilshad.a.mohammed@uod.ac
Gehan Abdullah Mustafa PhD	Lecturer	+9647504460337 gehan.abdullah@uod.ac
Gulan Bapeer Hassan Master	Lecturer	+9647504808561 gulan.hassan@uod.ac
Idress Muhammed Mahmood PhD	Lecturer	+9647504397707 idrees.mahmood@uod.ac
Khalil Sadiq Ismael PhD	Lecturer	+9647504574902 khalil.ismael@uod.ac
Mohammed Salim Bahjat PhD	Lecturer	+9647508581662 mohammed.salim@uod.ac
Sherwan M.Z. Izzaddin ALBRIFKANI PhD	Lecturer Director of the Engineering Consultant Bureau	+9647504589048 sherwan.albrifkani@uod.ac
Sherzad Waisy Khalid PhD	Lecturer	+9647504736018 sherzad.khalid@uod.ac
Shireen Taha Saadullah PhD	Lecturer	+9647507384940 shireen.saadullah@uod.ac
Wa'el Abdul-Bari Hussien	Lecturer	+9647504431513

PhD		wael.hussien@uod.ac
Yassamin Khalid Faiud Al-Ogaidi	Lecturer	None
PhD		yassamin.alogaidi@uod.ac
Youkhanna Zayia Dinkha	Lecturer	+9647504594876
PhD		youkhanna.dinkha@uod.ac
Yousif Youkhanna Zaia	Lecturer	+9647504747557
PhD	Vice Dean of the College of Engineering	yousif.zaia@uod.ac
Aza Hani Shukri	Lecturer	+9647504642529
Master	DOIS Coordinator at the College of Engineering	aza.shukri@uod.ac
Hussein Jalal Aswad	Lecturer	+9647504580812
Master		hussein.hassan@uod.ac
Khairi Ali Omar	Lecturer	+9647504199674
Master	Ph.D. Student	khairi.omar@uod.ac
Mahdi Salih Yaseen	Lecturer	+9647504737018
Master		mahdi.yaseen@uod.ac
Rondik Adil Jaafar	Lecturer	+9647504987146
Master		rondik.jaafar@uod.ac
Sayran Ahmed Ibrahim	Lecturer	+9647507644481
Master		sayran.ibrahim@uod.ac
Shaker Mahmood Abdal Faigy	Lecturer	+9647508921131
Master	Ph.D. Student	shaker.abdal@uod.ac
Shamal Khalid Mero	Lecturer	+9647504317677
Master		shimal.khalid@uod.ac
Shang Essmat Mohammed	Lecturer	+9647504551101
Master		shang.asmat@uod.ac
Zahraa Mahmood Klari	Lecturer	+9647504327110
Master		zahraa.klari@uod.ac
Abdi Ismael Abdi	Assistant Lecturer	+9647504266477
Master		abdi.abdi@uod.ac
Abdulsalam I. Abdulmajeed	Assistant Lecturer	+9647514600418
Master		abdulsalam.sulaivany@uod.ac
Ahmed Ramzy Jameel	Assistant Lecturer	+9647504147473
Master		ahmed.jameel@uod.ac
Alan Shaheen Saifadeen	Assistant Lecturer	+9647504588856
Master		alan.saifadeen@uod.ac
Anas Wajeesh Abdulrahman	Assistant Lecturer	+9647504511001
Master		anas.wajeesh@uod.ac
Avraz M.Saleem Zainaldeen	Assistant Lecturer	+9647504867328
Master		avraz.zainaldeen@uod.ac
Ayhan Hamed Saleem	Assistant Lecturer	+9647504016864

Master		ayhan.saleem@uod.ac
Bewar Haji Arif	Assistant Lecturer	+9647507358996
Master		bewar.arif@uod.ac
Gaheen Taha Mohammed	Assistant Lecturer	+9647504921553
Master		gaheen.sarma@uod.ac
Havraz Khedhir Younis	Assistant Lecturer	+9647504896681
Master		havraz.alzibaree@uod.ac
Hishyar Ali Mohammed	Assistant Lecturer	+9647504801062
Master		hishyar.a.mohammed@uod.ac
Jihan Ilyas Haydar	Assistant Lecturer	+9647504284970
Master		jihan.ilyas@uod.ac
Kareen Sabir Shajee	Assistant Lecturer	+9647507623365
Master		kareen.shajee@uod.ac
Karzan Abdullah Muhsin	Lecturer	+9647504428858
Master		karzan.muhsin@uod.ac
Kawa Shukir Basi	Assistant Lecturer	+9647508200674
Master		kawa.basi@uod.ac
Khalid Qasim Hussein	Assistant Lecturer	+9647503323576
Master		khalid.hussein@uod.ac
Reving Omar Saleh	Assistant Lecturer	+9647504921783
Master	Head of the Sports Unit at the College of Engineering	reving.saleh@uod.ac
Rizgar Haji Ahmed	Assistant Lecturer	+9647504881290
Master	Rapporteur of the Department of Civil Engineering	rizgar.ahmed@uod.ac
Sarmad Abdullah M.Salim	Assistant Lecturer	+9647504293537
Master		sarmad.salim@uod.ac
Siyamand Mohammed Ali	Assistant Lecturer	+9647504948743
Master		siyamand.ali@uod.ac
Alena Fuad Toma		+9647507453452
Master		alena.toma@uod.ac

22. Facilities and Resources (Lecture halls, Labs, etc.)

The programme uses these facilities:

Type	Quantity	Capacity (students)	Type of use	Equipment included
class	14	40	lecture	students' seats
computing laboratories	2	18	programming	computers
Fluid laboratory	1	50	Fluid test	
Hydraulic laboratory	1	50	Hydraulic test	
Concrete Laboratory	1	50	Concrete test	

Asphalt Laboratory	1	50	Asphalt test	
Geotechnical Laboratory	1	50	Soil Test	
23. Accreditation and recognition				
The programme adheres to the Bologna Process and the European Credit Transfer and Accumulation System (ECTS). The University of Duhok is officially recognised by the Kurdistan Regional Government's Ministry of Higher Education and Scientific Research. It has been selected as a pilot institution by the Kurdistan Accreditation Association for Education (KAAE) and is preparing for an eligibility accreditation meeting as part of its strategy to achieve international academic recognition.				