

نموذج وصف البرنامج الاكاديمي

اسم الجامعة : تكريت

الكلية: الهندسة

القسم العلمي: الهندسة المدنية

اسم البرنامج الاكاديمي او المهني: بكالوريوس هندسة مدنية

اسم الشهادة النهائية: بكالوريوس علوم في الهندسة المدنية

النظام الدراسي: فصول دراسية

تاريخ اعداد الوصف : 2025/1/12

تاريخ مليء الملف : 2025/1/12

التوقيع
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التاريخ: ٢٠٢٥/١/١٢

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دقق الملف من قبل
شعبة ضمان الجودة و الاباء الجامعي
اسم مدير شعبة ضمان الجودة والاداء الجامعي : م.د. احمد ياسر رديف

التاريخ: ٢٠٢٥/٧/٢٠

التوقيع

٢٠٢٥/١/١٢
مصادقة السيد العميد
الاستاذ المساعد الدكتور
سعد رمضان احمد
عميد كلية الهندسة

Undergraduate Degree Program Catalogue | 2023-2024 |
دليل البرنامج الدراسي

UNIVERSITY of TIKR

جامعة تكريت



Bachelor of Science in Civil Engineering

بكالوريوس هندسة - هندسة مدنية



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1. Mission & Vision Statement

Vision Statement

Civil engineering is concerned with planning, design, construction of facilities which are essential to modern life. Civil engineers are problem solvers in the areas of structures, geotechniqs, water supply, traffic congestion and infrastructure improvements. Societal needs, economic conditions and public safety are paramount in the work accomplished by civil engineers. Our vision is guided by the need to provide innovative and appropriate solutions to these issues through the education of engineers in both the technical and social aspects of engineering, including advanced methods, technologies and policies, and the need for life-long learning. The Department of Civil Engineering strives to graduate highly qualified engineers, provide quality professional and community service to the region and the world.

Mission Statement

The Mission of the Department of Civil Engineering is to educate our students to prepare for careers in which they can contribute positively to the design, construction, maintenance and advancement of civil engineering-based systems critical to the quality of life in a changing Iraq and world. We do this by providing students with the skills and tools necessary to understand the physical world, to apply this understanding to current and future needs of society and to responsibly and ethically address the impacts that

engineered systems can have on a community and its environment. As part of this process, the Department's head and students will advance the state of knowledge of the discipline through researches, publications and relevant services to the profession and community.

2. Program Specification

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

Civil engineering is a wonderfully wide-ranging subject. The emphasis of the programme is to create high quality civil engineers with global perspective and to inculcate in them professionalism and work ethics for building a stronger society. The degree is popular - for some it's the breadth of the subject that appeals, for others it's a path to specialisation.

Level 1 exposes students to the fundamentals of civil engineering, suitable for progression to all programmes within the civil programme group. Programme-specific core topics are covered at Level 2 preparing for research-led subject specialist modules at Levels 3 and 4.

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 train the student of the core subjects from strength of materials, through construction drawing, to populations to ensure the breadth of knowledge expected of a graduate with a civil engineering degree. This allows students to develop their own wide-ranging interests in material science. Decisions on what to study are made with input from personal tutors.

The research ethos is developed and fostered from the start via practicals, 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. At Level 4 all students carry out an independent research project, which may be a 2 credit for the first semester, and a 2 credit for second semester.

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

3. Program Goals

The program educational objectives are to:

1. Prepare men and women to be successful as Civil Engineers;
2. Participate in service projects that emphasize the societal advantages of engineering concepts;
3. Be able to pursue graduate studies and dedicate to continuing professional growth and long-life learning through bridging engineering and non-engineering professions.

4. Student Learning Outcomes

- 1- Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
- 2- Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
- 3- Communicate effectively with a range of audiences
- 4- Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts
- 5- Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
- 6- Develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.

7- Acquire and apply new knowledge as needed, using appropriate learning strategies.

5. Academic Staff

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6. Credits, Grading and GPA

Credits

Tikrit 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 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 | مقبول بقرار | (45-49) | More work required but credit awarded |
| | F – Fail | راسب | (0-44) | Considerable amount of work required |
| | | | | |
| Note: | | | | |
| NB 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 Grade Point Average (GPA)

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

GPA of a 4-year B.Sc. degrees:

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

7. Curriculum/Modules**Semester 1 | 30 ECTS**

| Code | Module | SSWL | USSWL | ECTS | Type | Pre-request |
|----------|---------------------------|------|-------|------|------|-------------|
| UOT004 | Democracy and Huma Rights | 33 | 17 | 2.00 | B | |
| MATH-101 | Calculus I | 78 | 72 | 6.00 | B | |
| ENG-101 | Engineering Drawing I | 78 | 72 | 6.00 | S | |
| ENG-102 | Engineering Mechanics I | 78 | 47 | 5.00 | B | |
| ENG-106 | Engineering Work Shop | 63 | 37 | 4.00 | B | |
| CIVL-103 | Construction Materials I | 63 | 62 | 5.00 | C | |
| UOT001 | Arabic language | 33 | 17 | 2.00 | B | |

Semester 2 | 30 ECTS

| Code | Module | SSWL | USSWL | ECTS | Type | Pre-request |
|-----------|-------------------------------------|------|-------|------|------|-------------|
| UOT003 | Computer I | 48 | 27 | 3.00 | B | |
| MATH-102 | Calculus II | 78 | 72 | 6.00 | B | MATH-101 |
| CIVL-107 | Engineering Drawing II | 93 | 57 | 6.00 | B | ENG-101 |
| CIVIL-112 | Engineering Mechanics II (Dynamics) | 78 | 47 | 5.00 | B | ENG-102 |
| CIVIL-105 | Construction Materials II | 63 | 62 | 5.00 | C | CIVL-103 |
| CIVIL-106 | Engineering Geology | 48 | 27 | 3.00 | S | |
| UOT002 | English language | 33 | 17 | 2.00 | B | |

Semester 3 | 30 ECTS

| Code | Module | SSWL | USSWL | ECTS | Type | Pre-request |
|-----------|-------------------------|------|-------|------|------|-------------|
| CIVL -201 | Mathematics III | 78 | 47 | 5.00 | C | MATH-102 |
| CIVL -202 | Concrete Technology | 78 | 72 | 6.00 | C | |
| CIVL -203 | Strength of Materials I | 78 | 47 | 5.00 | C | ENG-102 |
| CIVL -204 | Engineering Survey I | 78 | 47 | 5.00 | B | |
| CIVL -205 | Fluid Mechanics I | 63 | 37 | 4.00 | B | |
| UOT031 | Computer II | 48 | 27 | 3.00 | B | |
| UOT005 | Ba'ath Party Crimes | 32 | 18 | 2.00 | | |

Semester 4 | 30 ECTS

| Code | Module | SSWL | USSWL | ECTS | Type | Pre-request |
|-----------|--|------|-------|------|------|-------------|
| UOT002 | English Language | 32 | 18 | 2.00 | S | |
| CIVL -207 | Traffic Engineering I | 78 | 72 | 6.00 | C | |
| CIVL -208 | Strength of Materials II | 78 | 72 | 6.00 | C | CIVL -203 |
| CIVL -209 | Engineering Surveying II | 78 | 47 | 5.00 | C | CIVL -204 |
| CIVL -210 | Building Construction and Construction Drawing | 63 | 37 | 4.00 | C | CIVL -104 |
| CIVL -211 | Fluid Mechanics II | 63 | 37 | 4.00 | B | CIVL -205 |
| CIVL -212 | Statistic and Probability | 48 | 27 | 3.00 | B | |

Semester 5 | 30 ECTS

| Code | Module | SSWL | USSWL | ECTS | Type | Pre-request |
|----------|------------------------|------|-------|------|------|-------------|
| MATH-302 | Engineering Analysis | 47 | 28 | 3.00 | B | |
| CIVL-301 | Theory of Structures I | 78 | 47 | 5.00 | C | CIVL-207 |
| CIVL-302 | Concrete Design I | 93 | 57 | 6.00 | C | CIVL-207 |
| CIVL-303 | Soil Mechanics I | 78 | 47 | 5.00 | C | CIVL105 |
| CIVL-304 | Management & Economic | 78 | 47 | 5.00 | C | |
| CIVL-305 | Highway Engineering I | 93 | 57 | 6.00 | C | CIVL-208 |

Semester 6 | 30 ECTS

| Code | Module | SSWL | USSWL | ECTS | Type | Pre-request |
|----------|-------------------------|------|-------|------|------|-------------|
| MATH-301 | Numerical Analysis | 48 | 27 | 3.00 | B | MATH-302 |
| CIVL-306 | Theory of Structures II | 93 | 57 | 6.00 | C | CIVL-301 |
| CIVL-307 | Concrete Design II | 93 | 57 | 6.00 | C | CIVL-302 |
| CIVL-308 | Soil Mechanics II | 72 | 47 | 5.00 | C | CIVL-303 |
| CIVL-309 | Hydrology | 63 | 37 | 4.00 | C | CIVL-210 |
| CIVL-310 | Highway Engineering II | 93 | 57 | 6.00 | C | CIVL-305 |

Semester 7 | 30 ECTS

| Code | Module | SSWL | USSWL | ECTS | Type | Pre-request |
|----------|--------------------------|------|-------|------|------|-------------|
| CIVL-401 | Engineering Project I | 32 | 18 | 2.00 | C | |
| CIVL-402 | Concrete Design III | 93 | 57 | 6.00 | C | CIVL-307 |
| CIVL-403 | Foundation Engineering I | 78 | 72 | 6.00 | C | CIVL-308 |
| CIVL-404 | Construction Methods | 63 | 62 | 5.00 | C | |
| CIVL-405 | Sanitary Engineering I | 78 | 47 | 5.00 | C | CIVL-210 |
| CIVL-406 | Hydraulic Structures I | 93 | 57 | 6.00 | C | CIVL-210 |

Semester 8 | 30 ECTS

| Code | Module | SSWL | USSWL | ECTS | Type | Pre-request |
|----------|----------------------------------|------|-------|------|------|-------------|
| CIVL-407 | Engineering Project II | 32 | 18 | 2.00 | C | |
| CIVL-408 | Steel Design | 78 | 47 | 5.00 | C | CIVL-307 |
| CIVL-409 | Foundation Engineering II | 78 | 72 | 6.00 | C | CIVL-403 |
| CIVL-410 | Estimation & Specification | 78 | 72 | 6.00 | C | |
| CIVL-411 | Sanitary Engineering II | 78 | 47 | 5.00 | C | CIVL-405 |
| CIVL-412 | Engineering Software Application | 78 | 72 | 6.00 | S | |

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