

University of Anbar

جامعة الأنبار



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

بكالوريوس علوم - هندسة مدنية



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1. Mission & Vision Statement

Vision Statement

Pioneering in civil engineering sciences, their applications and modern technologies to serve the local and global communities, seeking development and improvement in high-quality outcomes.

Mission Statement

Providing high-quality educational programs by combining science and engineering principles with technical, innovative, and communication skills, and conducting educational and professional programs and applied research that investigates sustainable solution for local and global community problems.

2. Program Specification

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

The Department of Civil Engineering at the University of Anbar was founded in 1988 and is one of the most populous departments regarding faculty, students, and graduates. Hundreds of graduates from the department have held high-level positions in local, Arab, and international societies. Many have pursued postgraduate studies at top local, Arab, and

international universities, demonstrating the department's graduates' excellence and ability to contribute to the community. The department's success is built on its excellent teaching personnel.

In 1999, the Department of Civil Engineering expanded by launching a master's degree in different civil engineering specialties, including construction, structural materials engineering, geotechnical engineering, and road engineering. In addition, a PhD program in civil engineering was established in 2020.

The Department of Civil Engineering supports the community by working on numerous contracts with government entities to solve technical difficulties for engineers.

3. Program Goals

1. To develop the ability of the staff members in such a way that train and qualify them to become leaders in the business and labour market to serve the whole society. This can be done through achieving different Engineering projects and developing new practical and theoretical research that significantly enhance the future development of the country.
2. To qualify engineers who are able to seriously take the entire responsibility in the field, by providing students with the required learning and training courses and widen their knowledge with the fundamental Engineering disciplines.
3. Teaching the student, the professional ethics in order to avoid corruption and deviation behavior that are definitely not convenient with the profession.
4. Developing the academic career and qualifying new academic staff in all departments of the college.
5. Developing novel scientific research which mainly contribute to solve different problems that face the society in general.
6. Undertaking an engineering consultancy throughout the Engineering Consultancy Bureau to meet the essential requirements of the community and develop the country's infrastructures.

4. Student Learning Outcomes

Students of the Civil Engineering program should attain (by the time of graduation):

- i) An ability to distinguish, identify, define, formulate, and solve engineering problems by applying principles of engineering, science and mathematics.
- ii) An ability to produce engineering designs that meet desired needs within certain constraints by applying both analysis and synthesis in the design process.
- iii) An ability to create and carry out proper measurement and tests with quality assurance, analyze and interpret results, and utilize engineering judgment to make inferences.
- iv) An ability to skillfully communicate orally with a gathering of people and in writing with various managerial levels.
- v) An ability to perceive ethical and professional responsibilities in engineering cases and make brilliant judgments taking into account the consequences in worldwide financial, ecological and societal considerations.
- vi) An ability to perceive the continual necessity for professional knowledge growth and how to find, assess, assemble and apply it properly.
- vii) An ability to work adequately on teams and to set up objectives, plan activities, meet due dates, and manage risk and uncertainty.

5. Academic Staff

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6. Credits, Grading and GPA

Credits

University of Anbar 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: | | | | |
| <p>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.</p> | | | | |

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:

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

7. Curriculum/Modules

Semester 1 | 30 ECTS | 1 ECTS = 25 hrs

| Code | Module | SSWL | USSWL | ECTS | Type | Pre-request |
|--------|----------------------------|------|-------|------|------|-------------|
| ENG003 | Calculus-I | 63 | 87 | 6.00 | B | |
| ENG001 | Physics | 78 | 47 | 5.00 | B | |
| ENG002 | Chemistry | 78 | 47 | 5.00 | B | |
| UOA007 | Computer Science I | 48 | 27 | 3.00 | S | |
| UOA001 | Arabic Language I | 33 | 17 | 2.00 | S | |
| CIV001 | Building Materials | 78 | 92 | 7.00 | S | |
| UOA005 | Human Rights and Democracy | 33 | 17 | 2.00 | S | |

Semester 2 | 30 ECTS | 1 ECTS = 25 hrs

| Code | Module | SSWL | USSWL | ECTS | Type | Pre-request |
|--------|--|------|-------|------|------|-------------|
| ENG04 | Calculus-II | 63 | 87 | 6.00 | B | Calculus I |
| ENG06 | Engineering Mechanics (Static) | 63 | 87 | 6.00 | C | Physics |
| ENG05 | Fundamentals of Electrical Engineering | 78 | 72 | 6.00 | C | |
| ENG07 | Engineering Drawing | 93 | 57 | 6.00 | C | |
| UOA003 | English Language I | 33 | 17 | 2.00 | S | |
| CIV002 | Engineering Geology | 78 | 22 | 4.00 | B | |

Semester 3 | 30 ECTS | 1 ECTS = 25 hrs

| Code | Module | SSWL | USSWL | ECTS | Type | Pre-request |
|--------|------------------------------------|------|-------|------|------|--------------------------------|
| ENG008 | Calculus III | 63 | 87 | 6.00 | B | |
| CIV003 | Engineering Surveying-I | 78 | 22 | 4.00 | C | |
| CIV004 | Strength of Materials-I | 63 | 62 | 5.00 | C | Engineering Mechanics (Static) |
| CIV005 | Properties of concrete | 108 | 67 | 7.00 | C | |
| UOA006 | The crimes of Baath regime in Iraq | 33 | 17 | 2.00 | S | |
| UOA002 | Arabic Language II | 33 | 17 | 2.00 | S | |
| CIV006 | Dynamics | 63 | 37 | 4.00 | C | Physics |

Semester 4 | 30 ECTS | 1 ECTS = 25 hrs

| Code | Module | SSWL | USSWL | ECTS | Type | Pre-request |
|--------|--------------------------|------|-------|------|------|-------------------------|
| ENG009 | Calculus IV | 63 | 87 | 6.00 | B | |
| CIV007 | Engineering Surveying II | 78 | 22 | 4.00 | C | Engineering Surveying-I |
| CIV008 | Strength of Materials II | 78 | 47 | 5.00 | C | Strength of Materials-I |
| CIV009 | Building Construction | 63 | 62 | 5.00 | C | |
| CIV010 | Fluid Mechanics | 78 | 47 | 5.00 | C | |
| UOA004 | English Language II | 33 | 17 | 2.00 | S | |
| UOA008 | Computer Science II | 48 | 27 | 3.00 | S | |

Semester 5 | 30 ECTS | 1 ECTS = 25 hrs

| Code | Module | SSWL | USSWL | ECTS | Type | Pre-request |
|--------|--------------------------------------|------|-------|------|------|--|
| CIV011 | Structure-I | 63 | 87 | 6.00 | C | Engineering Mechanics (Static) |
| CIV012 | Reinforced concrete-I | 63 | 87 | 6.00 | C | |
| CIV013 | Engineering management and economics | 78 | 97 | 7.00 | C | |
| CIV014 | Soil Mechanics-I | 93 | 57 | 6.00 | C | Engineering Geology Eng. Mechanics (Static) |
| CIV015 | Hydrology | 63 | 62 | 5.00 | S | |

Semester 6 | 30 ECTS | 1 ECTS = 25 hrs

| Code | Module | SSWL | USSWL | ECTS | Type | Pre-request |
|--------|-------------------------------|------|-------|------|------|-----------------------|
| CIV016 | Structure-II | 63 | 62 | 5.00 | C | Structure-I |
| CIV017 | Reinforced concrete-II | 63 | 62 | 5.00 | C | Reinforced concrete-I |
| CIV018 | Soil Mechanics-II | 93 | 57 | 6.00 | C | Soil Mechanics-I |
| ENG010 | Engineering Statistics | 48 | 52 | 4.00 | B | |
| ENG011 | Engineering Numerical methods | 78 | 47 | 5.00 | B | |
| CIV019 | Traffic Engineering | 63 | 62 | 5.00 | C | |

Semester 7 | 30 ECTS | 1 ECTS = 25 hrs

| Code | Module | SSWL | USSWL | ECTS | Type | Pre-request |
|--------|--------------------------|------|-------|------|------|---------------------------------------|
| CIV020 | Hydraulic Structures | 63 | 62 | 5.00 | C | Fluid Mechanics |
| CIV021 | Foundation Engineering-I | 63 | 62 | 5.00 | C | Soil Mechanics-I Soil Mechanics-II |
| CIV022 | Highway Engineering | 93 | 57 | 6.00 | C | |
| CIV023 | Steel Structures I | 63 | 37 | 4.00 | C | |
| CIV024 | Final Year Project-I | 63 | 87 | 6.00 | C | |
| CIV025 | Course Elective1 | 63 | 37 | 4.00 | E | |

Semester 8 | 30 ECTS | 1 ECTS = 25 hrs

| Code | Module | SSWL | USSWL | ECTS | Type | Pre-request |
|--------|--|------|-------|------|------|-----------------------------|
| CIV026 | Sanitary and Environmental Engineering | 93 | 82 | 7.00 | C | Chemistry & Fluid Mechanics |
| CIV027 | Methods of Construction and Estimation | 63 | 62 | 5.00 | C | |
| CIV028 | Course Elective 2 | 63 | 62 | 5.00 | C | |
| CIV029 | Course Elective 3 | 63 | 62 | 5.00 | E | |
| CIV030 | Final Year Project II | 63 | 87 | 6.00 | C | Final Year Project-I |
| ENG012 | Ethics and Leadership Skills | 33 | 17 | 2.00 | S | |

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