Ministry of Higher Education and Scientific Research

Scientific supervision and evaluation device

Department of Quality Assurance and Academic Accreditation

International Accreditation Department

# Academic program description form For colleges

# For the academic year 2024-2025

**University Name**

**College name : College Iraq University**

**scientific departments and branches in the college: 8**

**Date of filling the file: 6/5/2025**

**Dean of the College (Institute )** **Assistant Dean for Scientific Affairs**

**Director of the Quality Assurance and University Performance Unit**

**Zaki Abdullah Abdul.Dr** **Jassim Mohammed Salman.Dr**

**Hassan Muhammad Al-Lami M.M.Ahmed**

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**:Date** **:Date** **:Date**

**Representative of the clamping quality assurance unit**

**Abrar Slah Hassan**

**The signature :**

**Data:**

**Name of the department head: Dr. Kamel Shammaa**

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**Data:**

# Academic program description form

**Reviewing the performance of higher education institutions ( ( ( ( academic program review**

## Description of the academic program

**This academic program description provides a necessary summary of the most important characteristics of the program and the learning outcomes that the student is expected to achieve, demonstrating whether he has made the most of the available opportunities. It is accompanied by a description of each course within the program**

| | |
|---|---|
| Iraq University College | .1 Educational institution |
| Energy engineering | .2 University department/center |
| | .3 Name of the academic program |
| Bachelor's | .4 Name of the final certificate |
| courses | .5 School system |
| | .6 Accredited accreditation program |
| Developmental courses for students/summer training | .7 Other external influences |
| **6/5/2025** | .8 Date the description was prepared |
| .9 Objectives of the academic program | |
| . Improving the educational reality in line with the current situation | |
| Improving university performance through the use of modern electronic . educational programs | |
| Developing education curricula annually in accordance with ministerial . instructions | |

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| Implementing college instructions in terms of providing the best<br>. educational methods for students |
| . Delivering practical theoretical lectures with high quality and techniques |
| Continuously updating the department's files in paper and electronic form<br>. |

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| Required learning outcomes and teaching, learning and assessment methods.10 |
| A-Knowledge and understanding<br>A1- Developing the student's knowledge through the use of the most effective<br>.teaching methods<br>A2- Using multiple and varied methods for the purpose of stimulating<br>.creativity and cognitive performance of students<br>A3- Review and develop curricula for each academic year to keep pace with<br>.new knowledge<br>.A4- Preparing classrooms with all advanced educational tools and methods |
| B - Subject-specific skills<br>.B1 - Evaluating students through daily examinations<br>B2 - Motivate and encourage students to obtain a complete and broad<br>.understanding of the topics<br>B3 - Adding a spirit of cooperation and a positive relationship between the<br>.teacher and the student in the service of the educational process<br>B4 – Diversity of educational methods to ensure the effectiveness of the<br>. educational process for all students' styles |
| Teaching and learning methods |
| Method of giving lectures -1<br>Student groups -2<br>Workshops -3<br>Reports and studies -4<br>Case studies and discussions -5<br>Use of illustrations and digital display devices-6 |
| Evaluation methods |
| Exams of all kinds -1<br>( Feedback from students ( CAT -2<br>How to express faces -3<br>Learning Matrix -4<br>Reports and studies -5 |

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| C- Thinking skills<br>C 1- Innovating advanced methods for solving real and hypothetical administrative problems by students.<br>C 2- Create student groups and ask them to solve cases and problems in a practical way.<br>C 3- Finding the best ways to deliver information to students.<br>C 4- Detailed and simple explanation of each topic while giving students an opportunity to discuss. |
| Teaching and learning methods |
| Method of giving lectures -1<br>Student groups -2<br>Workshops -3<br>Reports and studies -4<br>Case studies and discussions -5<br>Use of illustrations and digital display devices-6 |
| Evaluation methods |
| Exams of various types -1<br>Feedback from students ( CAT -2 )<br>How to express faces -3<br>Learning Matrix -4<br>Reports and studies -5 |

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| D - General and transferable skills ( other skills related to employability and personal development ).<br>D1-Verbal communication and written communication<br>D2- Teamwork , analysis and verification<br>D3- Flexibility , initiative and motivation at work<br>D4- Planning, organization and time management |
| Teaching and learning methods |
| Method of giving lectures -1<br>Student groups -2<br>Workshops -3<br>Reports and studies -4<br>Case studies and discussions -5<br>Use of illustrations and digital display devices-6 |
| Evaluation methods |

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|---|---|---|---|---|
| | | | | Exams of all kinds -1<br>( Feedback from students ( CAT -2<br>The method of expression with faces -3<br>Learning Matrix -4<br>Reports and studies -5 |
| Certificates and.12 credit hours | | | | Program structure.11 |
| | Hours and credit units | Name of the course or course | Course or course code | Level/year |
| **Bachelor's degree Requires (129) credit unit hours** | **5/125 hours** | **Physics** | | **The first/first course** |
| | **6/150 hours** | **Engineering drawing & AutoCAD1** | | |
| | **6/150 hours** | **mathematics** | | |
| | **6/150 hours** | **Electrical circuits** | | |
| | **4/100 hours** | **Computer principles** | | |
| | **hours 3/75** | **English** | | |
| | **5/125 hours** | **Physics** | | |
| | | | | |
| | | | | |
| | | | | **First/second course** |
| | **6/150 hours** | **Chemistry** | | |
| | **6/150 hours** | **Engineering drawing & AutoCAD11** | | |
| | **6/150 hours** | **mathematics** | | |
| | **hour 1/25** | **Arabic** | | |
| | **4/100 hours** | **Engineering mechanics** | | |
| | **4/100 hours** | **Engineering workshops** | | |
| | **hours 3/75** | **Human rights and democracy** | | |
| | | | | |
| | | | | **The second / first chorus** |

| | |
|---|---|
| hour 2/150 | Thermodynamics1 |
| hour 2/150 | Fluid mechenics1 |
| hour 3/150 | Engineering mathematics |
| hour 2/100 | Electrical circuits |
| hour 3/100 | English language |
| hour 2/100 | Material science |

| | |
|---|---|
| | The second / second chorus |
| hour 2/150 | Thermodynamics11 |
| hour 2/150 | Fluid mechenics11 |
| hour 2/150 | Strength of materials |
| hour 3/25 | Princlples of energy englneering |
| hour 1/100 | Computer programming |
| hour 2/50 | Human rights and democracy |

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|---|---|
| nothing | Third / first course |
| nothing | Third / second course |
| nothing | Fourth / first course |
| nothing | Fourth / second course |

| Planning for personal development.13 |
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| ● Attending electronic workshops within the specialty for the purpose of developing educational personnel. |
| ● Participate in theoretical and practical training courses to keep the educational staff abreast of current developments. |
| ● Attending and participating in scientific seminars and discussions for the purpose of benefiting from diverse experiences. |
| ● Developing scientific curricula to suit the labor market. |
| ● Scientific advancement through exploiting modern technology in the educational aspect. |

| Admission standard (establishing regulations related to admission to the college (or institute .14 |
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| • The student acceptance rate must not be less than 50 for morning studies.<br>• The student acceptance rate must not be less than 50 for evening studies.<br>• Reducing tuition fees for top students and those with a high average (free scholarship).<br>• To be a graduate of middle school from the scientific stream (biology/applied), literary, or commerce (management/general). |
| The most important sources of information about the program .15 |
| • University Education Law.<br>• Ministerial instructions issued by the Minister of Higher Education and Scientific Research. |

| Curriculum skills chart | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Please check the boxes corresponding to the individual learning outcomes from the program subject to evaluation | | | | | | | | | | | | | | | | | | |
| Learning outcomes required from the programme | | | | | | | | | | | | | | | | | | |
| General and transferable skills or ) Other skills) related to employability and personal development | | | | thinking skills | | | | Subject-specific skills | | | | Knowledge and understanding | | | | Basic Or optional | Course Name | Course Code | Year/level |
| D4 | D3 | D2 | D1 | C4 | C3 | C2 | C1 | B4 | B3 | B2 | B 1 | A4 | A3 | A2 | A1 | | | | |
| √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | Basic | Physics | | First year |
| √ | | √ | √ | √ | √ | √ | | √ | √ | √ | √ | | √ | √ | √ | Basic | Engineering drawing & AutoCAD1 | | |
| √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | Basic | Mathematics 1 | | |
| √ | √ | √ | √ | √ | | √ | √ | √ | √ | | √ | √ | √ | √ | √ | Basic | Electrical circuits | | |
| | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | | √ | √ | √ | Basic | Computer principles | | |
| √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | Basic | English | | |
| √ | √ | √ | | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | Basic | Chemistry | | |
| √ | √ | √ | | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | Basic | Engineering drawing & AutoCAD11 | | |
| √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | | √ | √ | Basic | Mathematics 11 | | |
| √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | Basic | Arabic | | |
| √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | Basic | Engineering mechanics | | |

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| √ | √ | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | Basic | Engineering workshops | | |
| √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | Basic | Human rights and democracy | | |

| l and ble skills r skills) d to ility and velopment | | thinking skills | | | | Subject-specific skills | | | | Knowledge and understanding | | | | Basic Or optional | Course Name | Cour se Code | Year/level | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D2 | D1 | C4 | C3 | C2 | C1 | B4 | B3 | B2 | B 1 | A4 | A3 | A2 | A1 | | | | | |
| | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | Basic | Thermodynamics1 | | First year | Second Year |
| √ | √ | √ | √ | √ | | √ | √ | √ | √ | | √ | √ | √ | Basic | Fluid mechenics1 | | | |
| √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | | √ | √ | Basic | Engineering mathematics | | | |
| √ | √ | √ | | √ | √ | √ | √ | | √ | √ | √ | √ | √ | Basic | Electrical circuits | | | |
| √ | √ | √ | | √ | √ | √ | √ | √ | √ | | √ | √ | √ | Basic | English language | | | |
| √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | Basic | Material science | | | |
| √ | | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | Basic | Thermodynamics11 | | | |
| √ | | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ | √ | Basic | Fluid mechenics11 | | | |