

Academic Program Description Form

University Name: Al- Kitab University

Faculty/Institute: College of Science

Scientific Department: Forensic sciences

Academic or Professional Program Name: Bachelor of Science in Forensic Sciences

Final Certificate Name: Bachelor of Science in Forensic Sciences

Academic System: semester

Description Preparation Date: 1/2/2024

File Completion Date: 17/2/2024

Signature:

Head of Department Name:

Ass.Lec. Khairullah Othman Omar

Date:

Signature:

Scientific Associate Name:

Ass.Prof. Dr. Akram Hatem Shadhar

Date:

The file is checked by:

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Lec.Dr. Mohammed Jumaah Hamadamin

Date:

Signature:

Approval of the Dean

1. Program Vision

Preserving evidence at the crime scene, taking samples from the site, documenting the evidence, learning how to deal with modern equipment and techniques in the field of specialization, preventing and determining the occurrence of the crime, and supporting the courts and prosecutors working with the investigations based on criminal evidence.

2. Program Mission

Providing and preparing individuals with the tools they need to become highly competent in

the fields of crime, criminal investigation, fingerprint collection, and evidence collection and analysis. This will allow the development of clear scientific foundations for diagnosing perpetrators.

3. Program Objectives

1. Empowering students with the theoretical and practical aspects of biological, physical, chemical and other medical sciences related to forensic sciences.
2. Familiarize students with the scientific and practical skills necessary to collect information, capture criminal evidence, deal with it, and analyze it in forensic science laboratories using modern scientific methods.
3. Enabling students to apply the correct mechanisms in dealing with crime scenes and to use modern scientific methods within the laws and legislation followed locally and internationally.
4. Training students to analyze and link evidence to uncover the criminal, write reports, and develop their communication and public speaking skills.
5. Training students to analyze and link evidence to uncover the criminal, write reports, and develop their communication and speaking skills.
6. Realizing the importance of scientific research and technological development in the field of forensic sciences and preparing students to communicate with the latest developments in this field.
7. Understanding the relationship of crime to society as a whole, personal and psychological matters, familiarity with police and legal procedures related to crime, and commitment to professional ethics.

4. Program Accreditation

5. Other external influences

Ministry of Interior - Private Sector

6. Program Structure

| Program Structure | Number of | Credit hours | Percentage | Reviews* |
|-------------------|-----------|--------------|------------|----------|
|-------------------|-----------|--------------|------------|----------|

| | Courses | | | |
|---------------------------------|----------------|------------|--------------|--------------|
| Institution Requirements | 6 | 13 | 9% | Basic |
| College Requirements | 10 | 25 | 17.2% | Basic |
| Department Requirements | 32 | 107 | 73.8% | Basic |
| Summer Training | | | | |
| Other | | | | |

* This can include notes whether the course is basic or optional.

7. Program Description

| Year/Level | Course Code | Course Name | Credit Hours | |
|------------------------------|-------------|--|--------------|-----------|
| | | | theoretical | practical |
| First course / second level | FOR23013 | Biochemistry | 3 | 2 |
| | FOR23114 | Genetics | 2 | 2 |
| | FOR23015 | Anatomy and physiology | 3 | 2 |
| | FOR23016 | Secretions and vital fluids | 3 | 2 |
| | FOR23017 | Statistics and forensic applications | 2 | |
| | FOR23018 | Crime scene | 2 | |
| Second course / second level | FOR24119 | Molecular biology | 3 | 2 |
| | FOR24120 | Analytical chemistry | 3 | 2 |
| | FOR24021 | Laboratory equipment and techniques | 2 | 2 |
| | FOR24022 | Forensic computer applications | 2 | 2 |
| | FOR24023 | Criminal investigation and research | 2 | |
| | FOR24124 | English language 1 | 2 | |
| First course / third level | FOR35125 | Molecular applications | 3 | 2 |
| | FOR35126 | Automated analysis | 3 | 2 |
| | FOR35027 | Forensic chemistry | 3 | 2 |
| | FOR35028 | Chemical and microscopic detection methods | 2 | 2 |
| | FOR35029 | Introduction to explosive materials and decoys | 2 | |
| | FOR35130 | English language 2 | 2 | |
| Second course / third level | FOR36131 | Introduction to toxicology and drugs | 3 | 2 |
| | FOR36032 | Implications of forensic evidence | 3 | |
| | FOR36033 | Criminal insects | 2 | 2 |
| | FOR36034 | Genetic statistical analysis and databases | 2 | |
| | FOR36035 | Inks and dyes and their warnings | 2 | |
| | FOR36036 | Tissues, hair and fibres | 2 | |
| First course / fourth level | FOR47037 | Environmental toxins and industrial pollution | 3 | 2 |
| | FOR47038 | Identity tools | 2 | 2 |
| | FOR47039 | Vital information | 3 | 2 |
| | FOR47040 | Basics of fingerprint and handwriting analysis | 3 | 2 |
| | FOR47042 | Professional ethics | 2 | |
| Second course / fourth level | FOR48042 | Principles of forensic medicine | 3 | 2 |
| | FOR48043 | Compare fonts and signatures | 3 | 2 |
| | FOR48044 | English language 3 | 2 | |
| | FOR48045 | Electronic crime | 2 | |
| | FOR48046 | Embarrassing research project | 3 | |

8. Expected learning outcomes of the program

Knowledge

Learning Outcomes 1

1. The student learns about the cells and tissues that make up the human body.
2. The student should be familiar with the principles of first aid and its methods and uses.
3. The student learns how to detect counterfeit currencies and examine official documents and books.
4. The student learns about the most important techniques used in the field of investigating drugs and poisons and how to write reports related to that.
5. To be familiar with information related to explosive

Learning Outcomes Statement 1

1. Knowledge: Preparing cadres familiar with the components of the human body, including tissues and cells.
2. Comprehension: Enabling the student to understand the principles of first aid, methods and uses, how to detect counterfeit currencies, and examine official documents and books.
3. Application: Enabling the student to use the most important techniques used in the field of drug and toxin investigation.

| | |
|---|---|
| materials, their types, and methods used to extinguish fires. | 4. Analysis: Enabling the student to know explosive materials, their types, and the methods used to extinguish fires. |
| Skills | |
| Learning Outcomes 2 1. The student will be able to use modern technologies represented by medical and laboratory equipment necessary in the field of forensic evidence detection. 2. The student acquires the skill of using the camera and its equipment necessary in the field of forensic photography. The student masters how to take fingerprints, finger prints, and paw prints from a crime scene, preserve them, and conduct laboratory practices. | Learning Outcomes Statement 2 1. The student will be able to use and apply the necessary medical and laboratory equipment in the field of forensic evidence detection. 2. The student was able to use the camera and its equipment necessary in the field of forensic photography, take fingerprints, finger prints and paw prints from crime scenes, preserve them, and conduct laboratory practices. |
| Learning Outcomes 3 1. Developing the capabilities of technical and administrative competencies in forensic laboratories to keep pace with developments and technologies and work to benefit from various scientific and practical experiences. 2. Acquiring crime scene skills related to the criminal effects of accidents and how to record them. | Learning Outcomes Statement 3 1. The learner keeps up with technical and administrative developments in forensic laboratory techniques. 2. The student is able to record the forensic traces of incidents at the crime scene. |
| Ethics | |
| Learning Outcomes 4 Giving the student the values of work, love of country, and contributing to achieving justice. | Learning Outcomes Statement 4 Raising the student to love serving the country and achieving justice. |
| Learning Outcomes 5 Providing the student with skills in forensic science. | Learning Outcomes Statement 5 Graduating students who have the knowledge and skills necessary to work as an effective member of a team that works in areas that fall within their specialization. |

9. Teaching and Learning Strategies

The method of giving lectures, the method of solving problems, brainstorming, the method of measurement and induction, the method of dialogue and discussion, and drawing mind maps. By presenting the lecture through the available display methods such as the data show and the blackboard, or by assigning students to write reports to solve the existing problems.

10. Evaluation methods

Daily tests

Class discussion
 Class assignments
 Monthly tests to determine quarterly pursuit
 Final exams

11. Faculty

Faculty Members

| Academic Rank | Specialization | | Special Requirements/Skills (if applicable) | | Number of the teaching staff | |
|----------------------------------|----------------------|---------|---|--|------------------------------|----------|
| | General | Special | | | Staff | Lecturer |
| Ass.Lec. Khairullah Othman Omar | Law | | | | Staff | |
| Ass.Lec. Baresh Mohamed Ezzedine | Computer Engineering | | | | Staff | |
| Lec.Dr. Mazen Ibrahim Ibrahim | General law | | | | Staff | |
| Lec.Dr. Chato Ismail Majeed | Law | | | | Staff | |
| Ass.Lec. Zuhair Nariman Reda | Law | | | | Staff | |
| Ass.Lec. Sherine Hamid Ali | General law | | | | Staff | |
| Ass.Lec. Muthanna Waad Muhammad | biology | | | | Staff | |
| Lec.Dr. Muhammed Jumaah Hamdamin | Solid state physics | | | | Staff | |

Professional Development

Mentoring new faculty members

Training and development of professors: By providing training programs and workshops for faculty members to develop their educational skills and update their academic knowledge in the field of forensic sciences. Which enhances the quality of teaching and learning in the specialty.

Professional development of faculty members

Gain research and dialogue skills and participate in seminars, conferences and training workshops in government and private institutions.

12. Acceptance Criterion

(central admission)

1. Approving admission conditions for students in accordance with the regulations of the Ministry of Higher Education and Scientific Research
2. Personal interview for the student
3. Student average in middle school

4. The college's absorptive capacity

13. The most important sources of information about the program

Curricula adopted by the Ministry and corresponding colleges

According to the twinning of the department

14. Program Development Plan

Analyze the current situation: by evaluating the current curriculum and analyzing its strengths and weaknesses. Search for opportunities for improvement and identify areas that need development.

Setting goals: Setting the main goals for developing the academic curriculum is considered one of the most important steps in developing any program, as the goals can include increasing educational quality, improving the student experience, and enhancing academic development and personal development.

Continuous evaluation and review: By conducting periodic evaluation and review of the curriculum and teaching methods and communicating with students and professors to collect observations and comments.

Use this feedback to improve and enhance your academic curriculum.

Program Skills Outline

| | | | | Required program Learning outcomes | | | | | | | | | | | | |
|------------------------------|-------------|--|-------------------|------------------------------------|----|----|----|--------|----|----|----|--------|----|----|----|---|
| Year/Level | Course Code | Course Name | Basic or optional | Knowledge | | | | Skills | | | | Ethics | | | | |
| | | | | A1 | A2 | A3 | A4 | B1 | B2 | B3 | B4 | C1 | C2 | C3 | C4 | |
| First course / second level | FOR23013 | Biochemistry | Basic | | ✓ | | | | ✓ | | | | ✓ | | | |
| | FOR23114 | Genetics | Basic | ✓ | | | | ✓ | | | | | ✓ | | | |
| | FOR23015 | Anatomy and physiology | Basic | ✓ | | | | ✓ | | | | | ✓ | | | |
| | FOR23016 | Secretions and vital fluids | Basic | ✓ | | | | ✓ | | | | | ✓ | | | |
| | FOR23017 | Statistics and forensic applications | Basic | ✓ | ✓ | ✓ | | | ✓ | ✓ | | | ✓ | ✓ | | |
| | FOR23018 | Crime scene | Basic | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | ✓ | ✓ | ✓ | |
| Second course / second level | FOR24119 | Molecular biology | Basic | ✓ | | | | ✓ | | | | | ✓ | | | |
| | FOR24120 | Analytical chemistry | Basic | ✓ | ✓ | | | ✓ | | | | | ✓ | | | |
| | FOR24021 | Laboratory equipment and techniques | Basic | ✓ | ✓ | | | ✓ | ✓ | | | | ✓ | | | |
| | FOR24022 | Forensic computer applications | Basic | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | | | ✓ | ✓ | ✓ | |
| | FOR24023 | Criminal investigation and research | Basic | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | FOR24124 | English language 1 | Basic | ✓ | | | | ✓ | | | | | ✓ | | | |
| First course / third level | FOR35125 | Molecular applications | Basic | ✓ | ✓ | | | ✓ | ✓ | | | | ✓ | ✓ | | |
| | FOR35126 | Automated analysis | Basic | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | ✓ | ✓ | ✓ | |
| | FOR35027 | Forensic chemistry | Basic | ✓ | ✓ | | | ✓ | ✓ | | | | ✓ | | | |
| | FOR35028 | Chemical and microscopic detection methods | Basic | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | | | ✓ | ✓ | ✓ | |
| | FOR35029 | Introduction to explosive materials and decoys | Basic | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | FOR35130 | English language 2 | Basic | ✓ | | | | ✓ | | | | | ✓ | | | |
| Second course / third level | FOR36131 | Introduction to toxicology and drugs | Basic | ✓ | ✓ | | | ✓ | ✓ | | | | ✓ | | | |
| | FOR36032 | Implications of forensic evidence | Basic | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | FOR36033 | Criminal insects | Basic | ✓ | ✓ | ✓ | | ✓ | ✓ | | | | ✓ | ✓ | | |
| | FOR36034 | Genetic statistical analysis and databases | Basic | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |

| | | | | | | | | | | | | | | | |
|---|----------|---|--------------|---|---|---|---|---|---|---|---|---|---|---|---|
| | FOR36035 | Inks and dyes and their warnings | Basic | ✓ | ✓ | | | ✓ | ✓ | | | ✓ | ✓ | | |
| | FOR36036 | Tissues, hair and fibres | Basic | ✓ | ✓ | | | ✓ | ✓ | | | ✓ | ✓ | | |
| First course / fourth level | FOR47037 | Environmental toxins and industrial pollution | Basic | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | FOR47038 | Identity tools | Basic | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | FOR47039 | Vital information | Basic | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | FOR47040 | Basics of fingerprint and handwriting analysis | Basic | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | FOR47042 | Professional ethics | Basic | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Second course / fourth level | FOR48042 | Principles of forensic medicine | Basic | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | ✓ | ✓ | | |
| | FOR48043 | Compare fonts and signatures | Basic | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | | |
| | FOR48044 | English language 3 | Basic | ✓ | ✓ | | | ✓ | ✓ | | | ✓ | ✓ | | |
| | FOR48045 | Electronic crime | Basic | ✓ | ✓ | | | ✓ | ✓ | | | ✓ | ✓ | | |
| | FOR48046 | Embarrassing research project | Basic | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

- Please tick the boxes corresponding to the individual program learning outcomes under evaluation.

