

Ministry of Higher Education & Scientific research

University of Mosul

College of Science

Department of Forensic Evidence



Self-evaluation Forensic Evidence Department Report According to ABET Standards

2023-2024

<https://uomosul.edu.iq/en/science/departments-of-forensic-evidence/>

Prepared by

Prof. Dr. Raed Salim AL- Saffar

Assist. Prof. Dr. Ghada Abdul-Razzaq Mohammad



<https://uomosul.edu.iq/en/science/department-of-forensic-evidence>

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Introduction:

Based on the directives of the Honorable Minister of Higher Education and Scientific Research on the necessity of developing universities and educational institutions, His Excellency instructed the establishment of a center for ensuring quality and reliability through which the scientific services provided by the Ministry and its educational institutions are matched with international quality standards, taking into account the current and future needs of Iraqi society, with the aim of graduating Qualified cadres capable of meeting these needs.

Starting and based on the commitment of the Department of Forensic evidence /College of Science/University of Mosul to establish and apply quality practices to support the university's mission towards achieving its strategic goals and reaching global leadership, a self-evaluation report was written.

The self-evaluation in accordance with the "ABET Program Accreditation Standards" is an examination of the overall functions and activities of the department, taking into account the mission and objectives of the department, justifying the analysis in detail with conclusions and evidence, and taking the advice of others who are able to provide independent comments. The responsibility for conducting the self-study falls on those in charge of the department so that everyone is committed to conducting an objective, subjective and scientific evaluation, and the evaluation is an effective means of reviewing the strengths and weaknesses of the department.

The goal of the report is to make changes that contribute to raising the level of performance, supporting strengths, and eliminating weaknesses through work that achieves the standards of the ABET accreditation program, giving a comprehensive overview of the level of activities, services, and educational programs provided by the department, knowing the levels of students, and ways to improve the educational reality, and determining whatever it might be needed such as training courses, development programs, ensuring the quality of the department's outputs, and programs to ensure the effectiveness of ongoing quality processes and procedures.

Self-evaluation has already been implemented in our department according to "ABET," which constitutes the first steps for academic accreditation. The evaluation

results of the interviewers and those of our department are supported by evidence and can be referred to as documents kept in the Quality Assurance and University Performance Division (QAUPD).

The self-evaluation report is a document that covers the following aspects:

- 1- Students, including student performance, counseling and assessment.
- 2- The program's educational objectives, in line with the profession's program, are based on the needs of the program's components (the profession), and the evaluation is periodic.
- 3- Program outcomes, consisting of the skills and knowledge that Forensic evidence students have and are expected to obtain upon graduation.
- 4- Continuous improvement.
- 5- Curricula.
- 6- Department members, including the competence of faculty members, and appropriate qualifications.
- 7- The department building, including classrooms, laboratories, and associated equipment.
- 8- Support, including adequate financial funding and ancillary staff (secretarial, technicians, IT, etc.) to support the programmed.

Chapter I

Description of Forensic Evidence Department

Name of the Institution: Ministry of Higher Education/University of Mosul/ College of Science/ Forensic evidence / Department

General Information:

Website: https://uomosul.edu.iq/ /science/Forensic_evidence-department/

Type of Institution: Governmental

Establishment date: 2023

Dates of: Undergraduate Studies 2023 Graduate Studies (Master);
Doctorate.

Language of Study: English.

Duration of Undergraduate: 4 years.

Department Contact Information:

Head Department

Prof. Dr. Raed Salim AL- Saffar

Iraq- Mosul- University of Mosul- College of Science- Forensic Evidence Dept.

Mobile 07701634647

Email: raesbio2@uomosul.edu.iq

Director of the Department:

Asst. Prof. Dr ' Mowafak Khalil Hasan

Iraq- Mosul- University of Mosul- College of Science- Forensic evidence Department

Mobile No. 07719742965

Email: mufsbio62@uomosul.edu.iq

History, Demonstration, Scope of Activities, and Achievements of the Department:

The Department of Forensic evidence / University of Mosul was established in 2023. Forensic evidence is one of the branches of modern sciences. It is a broad field in the science fields of knowledge and is considered as a basis for crime sciences . At the same time, it is the solid foundation of modern health sciences. Forensic evidence also reveals crimes and achieves justice. On this basis, forensic

science has occupied great importance among the sciences, and has entered the fields of interior, defense, health and analytics.

The Department of Forensic evidence has adopted a good academic program that matches its counterparts around the world by emphasizing the integrated theoretical and practical aspects of the field of study of Forensic evidence, and the curriculum is constantly updated. The duration of undergraduate study in the department is four years; From the moment we receive first-year students, whose average grades from high school qualify them to join, until the final year students graduate, where they receive a bachelor's degree in Forensic evidence.

In recognition of the university's role in preparing specialized cadres in the fields of Forensic evidence and with the aim of reaching the highest levels of knowledge and advancing the individual and society. The vision of the department is to be complementary to the mission and objectives of the College of Science, to serve the Iraqi community, to constantly interact with developments in the field of knowledge, and to be fully keen on industrious and tireless minds, transferring ideas from academic fields to applied fields, and solving the problems facing our country.

Vision, Message, and Goals of the Department:

Vision:

Preparing a highly qualified specialized cadre in the fields of Crime Investigation criminal investigation , fingerprinting evidence collection and handing

Message:

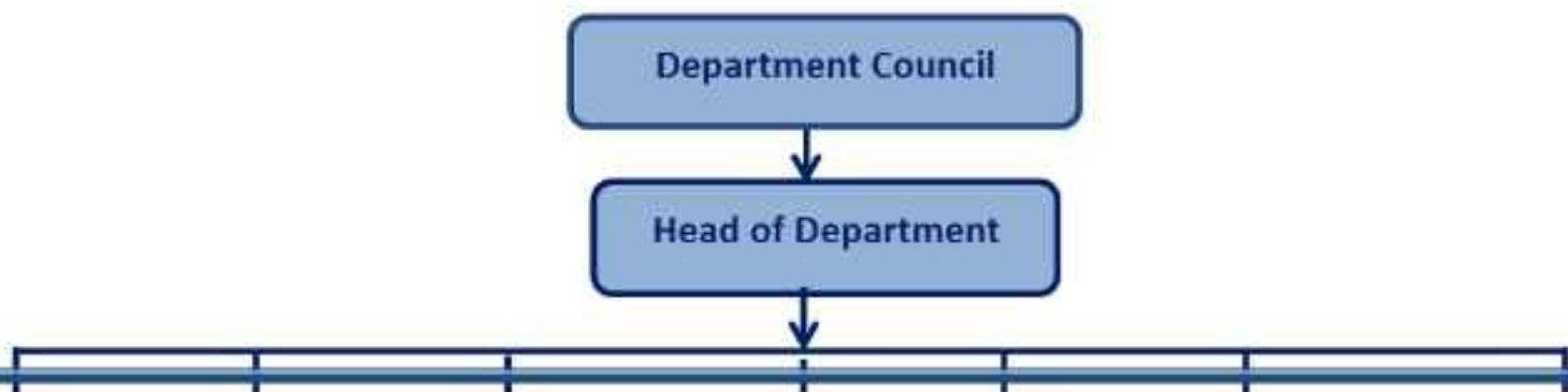
Maintaining evidence at the crime scene ,sampling from its location documenting evidence ,learning how to deal with modern equipment and techniques , and supporting courts and prosecutors

Goals:

Forensic evidence department aims to :

Graduating specialized cadres in the field of crime investigation and criminal investigation by teaching them to take fingerprints, use special forensic photography equipment, methods for examining counterfeit currencies and official documents, learn about methods for investigating toxins and drugs, write reports related to that, be familiar with information related to explosives and their types, and fire extinguishing techniques, and become familiar with the basic principles. First aid and its application, and providing students with scientific techniques in using devices and equipment that can be used in their theoretical and applied studies. Providing state institutions (defence, interior, health and health) with cadres to work in this field

Organizational and Administrative Structure of Forensic evidence Dept.:



Others



Heads of the Departmen

Dr. Raed S. Al-Saffar

2023

Members of Department's Council

No	Name	Scientific title	Occupation
1	Dr. Raed Salem Al-Saffar	Prof.	Head
2	Dr. Ghada Abdul-Razzaq Mohammad	Asst. Prof	Member
3	Dr. Mowafak Khalil Hasan	lecturer	Member
4	Dr. Falknaz Rashied Kadier	lecturer	Member
5	Dr. Thaer Sultan Darweesh	lecturer	Member

Department's library:

Includes many books (No. of books 100)

Free Education Unit:

There are no approved books current

Summary of the most important achievements of QGU

Scope of Quality:

- 1- Writing and implementing boards related to the department's vision, mission, and goals.
- 2- Preparing questionnaires for students to evaluate the teaching.
- 3- Follow up on the implementation of the department's self-evaluation standards.
- 4- Participation in many seminars, workshops and conferences related to quality in Iraq.
- 5- Holding workshops aimed at improving quality in the department.
- 6- Holding and attending a scientific course on performance evaluation for department members.
- 7- Preparing posters and work maps before starting the department's self-evaluation process.
- 8- Work on periodically coding the new curricula and exam questions.

Scope of University Performance:

- 1- Completing the department's annual calendar file.
- 2- Conducting evaluations of faculty staff as well as evaluations of employees.
- 3- Archiving (automation) of information: electronic documentation of information in the Quality Assurance Division of the department.

The Academic Strategic Plan:

- 1- A plan for accepting students in the undergraduate studies stage.
- 2- A plan for accepting postgraduate students.
- 3- Planning for scientific research and seminars.
- 4- A plan of educational guidance and activity and preparing conferences, seminars and exhibitions.

Field and scientific trips:

Since its establishment, the department has been working to create a state of interaction between theoretical lectures and scientific reality and what distinguishes Forensic evidence through visits to hospitals, relevant departments, and alcohol factories, and pharmaceutical laboratories in order to gain insight into the biological and health reality and link theoretical study with practical study.

Conferences and seminars:

The intention is to hold scientific conferences and hold many seminars to serve both students, lecturers and parties related to forensic evidence.

The Patents:

Date of held	Title of scientific activity	The scientific activity
29/5/2014	Enhancing concrete resistance using species of bacteria	Dr. Amira Mahmoud Taha Dr.Taha Ahmed Taha Sahira Idris Hamid Dr.Ghada Abdul-Razzaq Mohammad Mai Abdel Hafez Abdel Qader Shafak Tariq Burhan
5/3/2024	Enhancement of prodigiosin's production pigment from <i>Serratia marcescens</i> using some chemicals	Dr.Ghaad Abdul-Razzaq Mohammad Fatima Riad Sajida Aziz

Website links English	Website links Arabic	Adress	٢
	https://uomosul.edu.iq/science/%d9%82%d8%b3%d9%85-%d8%a7%d9%84%d8%a3%d8%af%d9%84%d8%a9-%d8%a7%d9%84%d8%ac%d9%86%d8%a7%d8%a6%d9%8a%d8%a9-%d9%88%d8%b5%d9%81-%d8%a7%d9%84%d8%a8%d8%b1%d9%86%d8%a7%d9%85%d8%ac-%d8%a7%d9%84%d8%a3%d9%83/	Link to the academic program link from	1.
	https://uomosul.edu.iq/science/wp-content/uploads/sites/12/2024/04/%D9%88%D8%B5%D9%81-%D8%A7%D9%84%D9%85%D9%82%D8%B1%D8%B1%D8%A7%D8%AA-%D8%A7%D9%84%D8%AF%D8%B1%D8%A7%D8%B3%D9%8A%D8%A9.pdf	Course description link	2.
		Link to subjects and study units	3.

Web sites:

The Comprehensiveness of the website on the department's activities

Website links English	Website links Arabic	Adress	
	https://uomosul.edu.iq/science/%d9%82%d8%b3%d9%85-%d8%a7%d9%84%d8%a3%d8%af%d9%84%d8%a9-%d8%a7%d9%84%d8%ac%d9%86%d8%a7%d8%a6%d9%8a%d8%a9/	Criminal Evidence Department Website	1
		Lictures Link	2
		Links that contribute to the teaching and learning process	3
		Scientific research links	4
		Student project links	5
	https://uomosul.edu.iq/science/%d9%82%d8%b3%d9%85-%d8%a7%d9%84%d8%a3%d8%af%d9%84%d8%a9-%d8%a7%d9%84%d8%ac%d9%86%d8%a7%d8%a6%d9%8a%d8%a9-%d8%a7%d9%84%d8%b3%d9%8a%d8%b1%d8%a9-%d8%a7%d9%84%d8%b0%d8%a7%d8%aa%d	CV of teachers	6

	9%8a%d8%a9-%d9%84%d9%84/		
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Chapter II

ABET accreditation program standards

ABET standards:

With regard to academic programs, our college has chosen the ABET program for academic accreditation, and proactive plans have been made to work within this program, under the direct supervision of the Dean of the College and his scientific and administrative assistants, by holding an introductory workshop on the ABET program.

About accreditation:

The Accreditation Board for Engineering and Technology (ABET) is an American non-governmental organization that grants accreditation to academic programs in colleges and universities around the world in the fields of applied sciences, computers, engineering, and technology. It is one of the most trusted academic accreditations in the United States of America. ABET has been providing accreditation certificates to confirm the quality of academic programs in university studies for more than 75 years.

What does ABET accreditation mean:

ABET accreditation is confirmation that the academic program obtained applies the standards of educational quality agreed upon by those with relevant experience in education to prepare and qualify students. Learning specifications are set in terms of the academic program's mission, learning objectives, learning outcomes, and study plan for engineering programs by experts in engineering education, with confirmation of the existence of mechanisms to ensure that feedback is taken from all its sources and used for continuous improvement of the academic program so that graduates of these programs continue to have the highest specifications, qualifications, and skills they need. The labor market and to ensure that the graduate remains capable of continuous self-learning that enables him to keep pace with developments in his field.

The importance of ABET accreditation:

- ABET accreditation ensures confidence that the academic program has met the basic standards to prepare graduates to enter the fields of science, technology, engineering, and mathematics, which have become a requirement for the global labor market.
- Graduates from an ABET-accredited program have a strong and capable educational foundation that enables them to follow the path of rapid technological innovations and developments.

- Accreditation helps students and their parents choose a reliable specialization, as it guarantees students that their educational experience keeps pace with international standards for learning and technical education in the vocational field.
- Accreditation gives companies and employers the opportunity to select and employ graduates, knowing that these graduates have been taught the specialty within international standards.
- Enhances job opportunities for the graduate as multinational companies require graduation from an accredited program.
- Registrars, licensors and certificates may use the accreditation to select applicants for these licenses and certificates.
- Accreditation helps universities and departments establish an organized mechanism to evaluate and develop the quality of their programs

Standards of the American Accreditation Authority:

The study aimed to evaluate the current situation of the department, and the extent to which the department achieves the standards to ensure quality, noting that the department, from the beginning, reviewed the experiences of regional and local universities and reached the following fact: The department needs support for a quality management system to ensure continuity of development and improvement of performance, and this in turn requires development and modernization in The management method and its work mechanisms are consistent with international

standards for the quality of higher education and achieve compliance with the standards set by the Ministry of Higher Education and Scientific Research/the Scientific Supervision and Evaluation Agency/the Department of Quality Assurance and Academic Accreditation by adopting the program standards.

Academic accreditation standards for: ABET

This report has been organized into several main axes:

- The first axis: Students, which includes student matters and everything related to students, including education, training, activities, admission and graduation mechanisms, and others.
- The second axis: Objectives of the academic program, educational objectives of the programs, and addresses the department's strategy, objectives, and ways to improve the educational process.
- The third axis: program outcomes
- Fourth axis: continuous improvement of quality.
- The fifth axis: curricula and everything related to study hours, updating, and transfer during the four years.
- The sixth axis: The teaching staff, which includes matters related to the teaching staff in the department and ways to improve them in order to develop the educational process in the department.
- Seventh axis: capabilities and infrastructure of the department.
- The eighth axis: institutional support.

1st Axis: students

Student registration and admission mechanism:

The capacity of the Forensic evidence Department is determined within the admission plan sent to the deanship, then to the university, and then to the ministry to obtain official approvals.

Application to the college is made through the Registration Division of the Deanship of the College of Science, taking the required official documents, and distributing the students to the college's departments according to the capacity and the student's desire in terms of allowing him to move from the highest department to the lowest department in the hierarchy of departments in the College of Science.

Methods used in evaluating students and graduation requirements:

Graduation requirements for students in the initial stage of study include the following

- Success in all academic subjects, theoretical and practical, with a passing grade of 50 out of 100.
- Summer training: The student must pass the summer training period in one of the hospitals or health centers that can develop his skills, so that he can have a direct experience with practical life. Summer training is a basic requirement for the transition of third to fourth stage students.
- Graduation project: It is one of the requirements for granting a bachelor's degree. The student must complete the graduation project in its fourth stage.

Guidance and advice for students:

Advice and guidance are provided to students by guidance committees. Teachers follow up on students through guidance committees in the department, and an educational guidance program has been developed in the Forensic evidence

Department for the four stages, to identify students' problems and contribute to solving them.

Alumni Description:

The student who graduated from the Department of Forensic Evidence can be described as follows:

1. He is a person who has completed his academic studies in Forensic Evidence sciences and obtained a bachelor's degree / science / Forensic evidence. Who possesses detailed and accurate specialized information in his science such that this information enables him to work in one of the jobs or centers that qualifies him to work in this aspect of applied sciences.
2. He is the one who has acquired extensive experience and scientific and technical information from his studies that have applications in the fields of medicine, and general Forensic evidence knowledge, such that this information enables him to work and practice a profession related to his specialty with complete success.

The alumni's field of work	Description Certificate	Department	College	University
Departments or institutions of the Ministry of Higher Education, Scientific Research, Health, Defense Interior ,the Directorate of the Narcotics Control Authority, as well as National Security	Bachelor's Forensic evidence	Forensic evidence	Sciences	Mosul

Numbers of under graduate students:

Table (1): Numbers of under graduate students 2020-2021:

Stage	Male	Females	The Number	Average age
One	172	30	202	19 – 24
Two				
Three				
Three				
Four				

2nd Axis: Objectives of the academic program

Educational objectives of the program:

1. Graduating students familiar with scientific and practical information in Forensic evidence, and developing the student's personality to develop it into a scientific personality capable of understanding and diagnosing scientific problems in society and dealing with them with wisdom and science starting from his scientific stock, and guiding the student educationally during The academic stage and developing the spirit of cooperation for teamwork.
2. Developing the teaching staff, as teachers are sent to study outside the country through scholarships, fellowships, and development courses in reputable international universities, and openness to international educational institutions such as universities and international research centers, and try to benefit from the capabilities and expertise of these institutions. In addition to opening channels of communication with Iraqi colleges and universities and participating in conferences, scientific seminars, and continuing education courses within the country.
3. Curriculum development.

Components of the academic program:

The components of the program are those who must be satisfied with the performance according to the Forensic evidence program, and they are:

1. Faculty: Faculty participate on a regular basis in the evaluation of the academic program. Faculty members are a homogeneous group who work as a team to improve education in the department. Most of the faculty members participate in research.
- 2 . Students: Students are interested in whether the program adequately prepares them for future employment. Students in the program are motivated to become successful researchers who are well-versed in their field to suit their expected future work.
3. Graduates: This group consists of recent graduates and graduates who have been working for 3 to 5 years. Graduates with 3 to 5 years of work experience form an

essential part of the evaluation process. They must have incentives to evaluate the quality of the academic program based on their professional achievements.

4. Employers: (Government, industry, universities): Employers' satisfaction with the educational level of our students provides a measure of the program's success. Their satisfaction translates into job opportunities for our students.

The process of setting educational program objectives:

The mission of the university, college, and department is to instill in its graduates a solid scientific foundation for the specialty in question, scientific knowledge, and the development of intellectual skills necessary for excellence in their professional lives.

Emphasis is placed on encouraging faculty members to publish their scientific research in international and Iraqi journals.

Achieving the program's educational objectives:

The assessment of the objectives of the Forensic evidence academic program is checked continuously and periodically through many channels such as employers, student debriefing process, faculty opinions, etc.

3rd Axis: program outcomes

Program outcomes:

The program results are listed below, as the graduating student has successfully acquired all the skills, knowledge, and behaviors found in the results listed below for the purpose of achieving the program objectives. On this basis or descriptive concept, the Forensic evidence graduate must have the following knowledge:

- To possess extensive, detailed, and accurate information about the medical, security and health fields
- To possess extensive knowledge of concepts and laws to criminal evidence
- To be able to analyze, differentiate and accurately diagnose in the Forensic evidence and drugs

4th Axis: continuous improvement

Review program outcomes and student goals:

The Department of Forensic evidence at the University of Mosul offers a program leading to a Bachelor of Science degree in Forensic evidence.

The program outcomes are reviewed annually with faculty members and relevant committees in the department. To support the program, the department plans to visit various offices and institutions as well as private sector companies to find out their opinions about the department's graduates and their suggestions for improving the program.

Student opinion statement and continuous improvement process:

A questionnaire form is distributed to the department's students at all levels of study at the end of the academic year for the purpose of determining the accuracy of the department's teaching performance. It consists of 36 items as follows:

Paragraphs	Acceptable	Middle	Good	Very Good	Excellence
It takes into account individual differences and psychological characteristics of students.					
Discusses students' answers and inquiries flexibly and accepts other points of view.					

Develops good attitudes, habits and morals in students.					
He uses a variety of educational methods to motivate students.					
It provides cooperative or competitive activities in which students interact with each other.					
His ability to manage time for lectures and adhere to appointments.					
Motivate students to review the references of various scientific subjects.					
Students feel concerned for them and want to benefit them.					
Diversify the questions and take into account the correct timing when asking them during the lecture.					
It addresses students' weaknesses in the academic subject and enhances their strengths.					
He adheres to the specified time for the lecture, attends and leaves, and uses his time well.					
He speaks in a clear voice and understandable language.					
His commitment to scientific aspects during the lecture and not addressing external matters that are not related to the topic of the lecture.					
Diversifying interesting teaching methods and using more than one teaching method during the lecture.					
It provides students with the vocabulary included in the curriculum and its basic sources.					
Distributes the subject matter according to an appropriate timetable known to the students.					
Gradual presentation of scientific material from simple to complex.					
He is good at answering students' questions.					
He focuses on educational guidance whenever the opportunity allows.					
It depends on dialogue and discussion.					
He asks evaluative questions during the lecture and at its conclusion that illuminate the students' creative thinking and measure their understanding of the material.					

It uses oral and written methods and tests.					
Explains how grades are distributed on activities and tests at the beginning of the semester.					
The results of periodic examinations and written work are announced in a timely manner.					
It attracts students' attention throughout the lecture in multiple ways.					
Encourages everyone to actively participate in the lecture.					
Encourages students to use resources and benefit from the library and the Internet.					
Directs the student on ways to avoid academic plagiarism.					
It enables the student to use methods of writing and publishing scientific research in reputable journals.					
He has good relationships with his students.					
Directs the student to use resource arrangement programs in research.					
He welcomes questions from his students outside lecture hours.					
It encourages cooperative work such as (ceremonies, competitions, matches, exhibitions, etc.).					
He conducts live broadcast lectures.					
He publishes video lectures in electronic classes.					
He publishes lectures in the form of PowerPoint slides in electronic classes.					
the total					
Percentage					

At the end of the academic year, statistics are also evaluated, which will be considered an indicator of the level of students' progress or not during the educational program and evidence of the level of teaching performance, his ability to deliver the scientific material to the student, and the accuracy of his dealings with students. The statistical results also indicate to us the deficiencies in the academic subjects that the student suffers from.

5th Axis: Syllabus

Programs of Studies in the Department

Syllabus: University name: University of Mosul

College/Institute: College of Science Scientific Department: Forensic evidence

Name of the academic or professional program: Bachelor's degree

Name of final degree: Bachelor's degree in Science / Forensic evidence

Academic system: Bologna

Description preparation date: 2024

1. Program vision

Preparing a specialized, highly qualified staff in the areas of crime investigation, criminal investigations, fingerprint collection, evidence collection and dealing with it.

Date of filling the file: 2024

2. Program Mission

To preserve evidence at the crime scene, take samples from the site, document evidence, learn how to deal with modern equipment and

technologies, and support courts and prosecutors with the facts.

3. Program Objectives

Graduating specialized cadres in the field of crime investigation and criminal investigation by teaching them to take fingerprints, use special forensic photography equipment, methods for examining counterfeit currencies and official documents, learn about methods for investigating toxins and drugs, write reports related to that, be familiar with information related to explosives and their types, and fire extinguishing techniques, and become familiar with the basic principles. For first aid and its application, and providing students with scientific techniques in using devices and equipment that can be used in their theoretical and applied studies. Providing state institutions (defense, interior, and health) with cadres to work in this field.

4. Program Accreditation

Does the program have program accreditation? And from which agency?

We are seeking an ABET program

5. Other external influences

Is there a sponsor for the program?

Nothing

6. Program Structure				
Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements	5		10.5%	
College Requirements	1		2%	
Department Requirements	42		87.5%	
Summer Training				The student is requested a summer training at the end of the sixth semester
Other				Nothing

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

.

7. Program description



Republic of Iraq - Ministry of Higher Education and Scientific Research

University of Mosul

Bachelor's degree in Forensic Evidence (First cycle)

Four years nine semesters) - 240 ECTS credits - 1 ECTS = 25 hr

Program Curriculum (2023 - 2024)

جمهورية العراق - وزارة التعليم العالي والبحث العلمي

جامعة الموصل

بكالوريوس علوم غير الألة الجنائية (الدورة الأولى)

أربع سنوات (ثلاثية فصول دراسية) - 240 وحدة ائتمانية - 1 وحدة ائتمانية = 25 ساعة

المناهج الدراسية للعام 2023-2024



Level	Semester	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language	SSWL (hr/w)					Semn (hr/w)	Exam hr/sem	SS WL hr/sem	USS WL hr/sem	SW L hr/sem	EC TS	Module Type	Prerequisite Module(s) Code
							CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)								
UGI	One	1	FOR-1101	Forensic Sciences	علوم الألة الجنائية	Arabic	2	2				2	3	93	107	200	8.00	C	
		2	FOR-1102	General Forensic evidence 1	أحياء عام 1	English	2		3				3	108	92	200	8.00	S	
		3	FOR-1103	General Chemistry	كيمياء عام	English	2		3				3	108	92	200	8.00	S	
		4	UOM104	democracy and Human Right	ديمقراطية وحقوق انسان	Arabic	2						3	33	17	50	2.00	B	
		5	Sci-101	Mathematics	رياضيات	English	2						3	33	17	50	2.00	B	

6	UOM101	Arabic Language	اللغة العربية	Arabic	2						3	33	17	50	2.00	B	
				Total	12	5	6	2	2	2	18	408	342	750	30.00		

Semester	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language	SSWL (hr/w)						Exam hr/sem	SSWL	USSWL	SWL	ECTS	Module Type	Prerequisite Module(s) Code
						CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)		hr/sem	hr/sem	hr/sem			
Two	1	FOR-1204	Fuels and fire Acceleration	مواد الوقود ومسرعات الحرائق	English	2	2			2		3	93	82	175	7.00	C	
	2	FOR-1205	Legal regulation of the criminal expert	التظيم القانوني للخبير الجنائي	Arabic	2	2				2	3	93	57	150	6.00	C	
	3	FOR-1206	Organic chemistry	كيمياء عضوية	English	2		3				3	78	72	150	6.00	B	
	4	FOR-1207	General Forensic evidence 2	أدلة عام 2	English	2		3				3	78	72	150	6.00	S	
	5	UOM102	English Language	اللغة الانجليزية	English	2						3	33	17	50	2.00	B	
	6	UOM103	Computer	مبادئ علم الحاسوب	English	2		2				3	63	12	75	3.00	B	
					Total	12	4	8	0	2	2	18	438	312	750	30.00		

	24013	Forensic evidence	الجزيني	h									0			
2	FOR-24014	Analytical Chemistry	الكيمياء التحليلية	English	2		3				3	78	47	125	5.00	s
3	FOR-24015	Laboratory equipment and techniques	اجهزة وتقنيات مخبرية	English	2		3				3	78	47	125	5.00	s
4	FOR-24016	Forensic computer applications	تطبيقات الحاسوب الجنائية	Arabic	2		3				3	78	47	125	5.00	c
5	FOR-24017	Investigation and criminal investigation	التحقيق والبحث الجنائي	Arabic	2				2		3	63	62	125	5.00	c
6	FOR-24018	Illustrated criminal report	التقرير الجنائي المصور	Arabic	2				2		3	63	62	125	5.00	c
				Total	12	0	12	0	0	4	18	438	312	750	30.00	

Level	Semester	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language	SSWL (hr/w)						Exam hr/sem	SS WL	USS WL	SW L	EC TS	Module Type	Prerequisite Module(s) Code
							CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)		hr/sem	hr/sem	hr/sem			
UGII I	Five	1	FOR-35019	Molecular application	التطبيقات الجزيئية	English	2		3				3	78	72	150	6.00	c	
		2	FOR-35020	Analytical Chemistry	التحليل الالى	English	2		3				3	78	72	150	6.00	c	
		3	FOR-35021	Chemical and microscopic detection methods	طرق الكشف الكيميائي والمجهري	English	2		3				3	78	72	150	6.00	c	
		4	FOR-35022	Forensic chemistry	الكيمياء الجنائية	English	2		3				3	78	47	125	5.00	c	
		5	FOR-35023	Introduction to explosive materials and booby traps	مقدمة في المواد المتفجرة والكمائن الخداعية	Arabic	2				2		3	63	62	125	5.00	B	
		6	FOR-35024	English language	لغة انكليزية 2	English	2						3	33	17	50	2.00	s	
				Total			12	0	12	0	2	0	18	408	342	750	30		
Semester	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language	SSWL (hr/w)						Exam hr/sem	SS WL	USS WL	SW L	EC TS	Module Type	Prerequisite Module(s) Code	
						CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)	hr/sem	hr/sem	hr/sem					

Six	1	FOR-36025	Introduction to toxins and drugs	مقدمة في السموم والمخدرات	English	2		3					3	78	47	125	5.00	c	
	2	FOR-36026	The effects of criminal evidence	اثر الادلة الجنائية	Arabic	2	2				1		3	78	47	125	5.00	c	
	3	FOR-36027	Criminal insects	الحشرات الجنائية	English	2		3					3	78	47	125	5.00	c	
	4	FOR-36028	Genetic statistical analysis and databases	التحليل الاحصائي الوراثي وقواعد البيانات	English	2				2			3	63	62	125	5.00	c	
	5	FOR-36029	Inks and dyes and their warnings	الاحبار والاصباغ ومخاطرها	Arabic	2			2		1		3	78	47	125	5.00	c	
	6	FOR-36030	tissue , haier and fibers science	انسجة وشعر واللياف	English	2	2						3	63	62	125	5.00	c	
						Total	12	4	6	2	2	2	18	438	312	750	30.00		
Summer Semester	Semester	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language	SSWL (hr/w)					Exam hr/sem	SS WL	USS WL	SW L	EC TS	Module Type	Prerequisite Module(s) Code	
							CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)		Semn (hr/w)	hr/sem	hr/sem				hr/sem
Lev	Seme	No.	Module	Module	اسم المادة	Lang	SSWL (hr/w)					Exam	SS	USS	SW	EC	Module	Prerequisite	

Semester	No.	Code	Name in English	التراسية	Language	SSWL (hr/w)						Exam hr/sem	WL	WL	L	TS	Type	Module(s) Code
						CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)		hr/s em	hr/s em	hr/s em			
UGI V	1	FOR-47031	environmental toxins and distrial pollution	المسوم المبيتوالنثرات الصناعي	English	2		3				3	78	47	125	5.00	c	
	2	FOR-47032	identify difintion tools	ادوات تعريف الهوية	Arabic	2		3				3	78	47	125	5.00	c	
	3	FOR-47033	bioinforma tics	المعلومات الحيوية	English	2		3				3	78	47	125	5.00	c	
	4	FOR-47034	Basics of fingerprint analysis and fonts	اساسيات تعطيل بصمة الاصابع والخطوط	Arabic	2		3				3	78	47	125	5.00	c	
	5	FOR-47035	Job ethics	اخلاقيات مهنة	Arabic	2	2					3	63	62	125	5.00	s	
	6	FOR-47036	Crime scince	مشرح جريمة	Arabic	2	2					3	63	62	125	5.00	c	
						Total	10	0	12	0	0	0	15	375	250	750	30.0	
Semester	No.	Module Code	Module Name in English	اسم المادة التراسية	Language	SSWL (hr/w)						Exam hr/sem	SS WL	USS WL	SW L	EC TS	Module Type	Prerequisite Module(s) Code
						CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)		hr/s em	hr/s em	hr/s em			
Eight	1	FOR-48037	Principles of Medical jurisprudenc	مبادئ الطب الشرعي	Arabic	2		3				3	78	72	150	6.00	c	

		e																
2	FOR-48038	Identity Definition Tool and Fingerprints	مقارنة الخطوط والتوضيحات	Arabic	2		3	1		3	93	57	150	6.00	c			
3	FOR-48039	Principles of Islamic Criminal Legislation	مبادئ التشريع الإسلامي	Arabic	2				2	3	63	87	150	6.00	c			
4	FOR-48040	Cybercrime	الجريمة الالكترونية	Arabic	2				1	3	48	77	125	5.00	c			
5	FOR-48041	Preventive policy and crime prevention	السياسة الوقائية ومنع الجريمة	Arabic	2				1	3	48	77	125	5.00	c			
6	FOR-48042	Graduation project	مشروع بحث تخرج	English	2		3			3	78	62	50	2.00	c			
				Total	12	0	9	0	1	4	18	408	432	750	30.00			
					Total	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	Must be 240 ECTS

Note: The student should complete 4 weeks of Summer Internships to fulfill the requirements of the Bachelor's degree

Structured SWL (hr/w) type	CL	Class Lecture	Module type	B	Basic learning activities	SWL:	Student Workload
	Lab	Laboratory		C	Core learning activity	SSWL:	Structured SWL
	Pr	Practical Training		S	Support or related	USSWL:	Unstructured SWL



					learning activity								
	Tut	Tutorial		E	Elective learning activity								
	Lec t	Online lecture											
	Se mn	Seminar	Note: Columns O, Q and R are programmed, protected and should not be edited										

8. Expected learning outcomes of the program

Knowledge

Learning outcomes 1

- To possess extensive, detailed and accurate information about the medical, security and health fields
- To have extensive knowledge of the concepts and laws related to criminal evidence
- To be able to analysis, distinguish and accurately diagnose in the areas of crime, forgery, poisons and drugs

Skills

Learning Outcomes 2

- Enables the student to do the teaching
- Enables the student to work in security and health institutions

Learning Outcomes 3

Enables the student to work in research institutions

Ethics

Learning Outcomes 4

Ability to work in a multidisciplinary team

Learning Outcomes 5

Ability to communicate constructively

9. Teaching and Learning Strategies

Teaching and learning strategies and methods adopted in the implementation of the program in general.

10. Evaluation methods

Exams, assignments, daily assignments, discussions, laboratory reports and finally a graduation project

11. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Professor NO. 1	Forensic evidence	Genetic			Permanent staff	
Assistant Professor NO. 3	Forensic evidence Forensic evidence Arabic Language	Forensic evidence Biochemistry			Permanent staff NO.1	Lecturer NO.1 Lecturer NO.1
Teacher NO. 7	chemistry	Inorganic			Permanent	

					staff NO.1	
Assistant teacher NO. 8	Forensic evidence	Genetic			Permanent staff NO.1	
	Chemistry	Organic			Permanent staff NO.1	Lecturer NO.2
	Computer				Permanent staff NO.1	Lecturer NO.1
	Forensic evidence				Permanent staff NO.4	Lecturer NO.1
	Chemistry				Permanent staff NO.1	Lecturer NO.2

Professional Development

Mentoring new faculty members

Briefly describes the process used to orient new, visiting, full-time, and part-time faculty at the institution and department levels

New faculty members are guided by participating in specialized courses concerned with faculty member development in educational institutions, which are organized by the Department and Division of Continuing Education

The orientation program covers the following topics:

- The role of faculty members in the educational process
- Evaluation and measurement
- Research
- Professional development
- Ethics and integrity

The orientation program is a valuable resource for new faculty, providing them with the information and support they need to succeed in their new roles.

Professional development of faculty members

Briefly describe the academic and professional development plan and arrangements for faculty such as teaching and learning strategies, assessment of learning outcomes, professional development, etc.

The college implements an academic and professional development plan for faculty members through participation in courses, workshops, and seminars held at the college, university, and ministry, which aim to develop

- Teaching skills

- Scientific research skills

- Technical skills

The College believes that professional development is necessary for faculty members to keep pace with developments in their field and provide the best possible education to the student.

The college provides a variety of professional development opportunities

12. Acceptance Criterion

Establishing regulations related to admission to the college or institute, whether central admission or others mentioned

1- Central admission

2- Accepting students who graduate from the biological and applied branches

3- Personal interview for students

4- Age exclusion in admission to evening studies

5- Accepting students through parallel education

6- The capacity of college departments

13. The most important sources of information about the program

Program development through

- Higher directives
- What new sciences are developed in the field of specialization

14. Program Development Plan

- Participation of students in their orientations through continuous review of curriculum items through questionnaires and meetings
- Involving students in the relevant committees
- Participation in specialized scientific conferences
- Follow specialized international books and periodicals
- A plan was developed to activate field visits and cooperation and respond to the need of the local private market to improve scientific reality
- Increase activities that develop personal knowledge through seminars, conferences and seminars to develop scientific and personal development



Self-evaluation of Forensic evidence Dept. according to ABET Standards 2023-2024

		of the criminal exper														
First year / two	FOR-1206	Organic chemistry	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√
First year / two	FOR-1207	General Forensic evidence 2	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√
First year / two	UOM102	English Language	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√
First year / two	UOM103	Computer	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√
Second year / Three	FOR-2308	Biochemistry	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√
Second year / Three	FOR-2309	Genetics	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√
Second year / Three	FOR-23010	Anatomy and physiology	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√
Second year / Three	FOR-23011	Secretion and vital fluids	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√
Second year / Three	FOR-23012	Statistics and Forensic application	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√

Self-evaluation of Forensic evidence Dept. according to ABET Standards 2023-2024

Second year / Three	UM0205	Crimes of defunct Baath Party	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√
Second year / four	FOR-24013	Molecular Forensic evidence	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√
Second year / Four	FOR-24014	Analytical Chemistry	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√
Second year / Four	FOR-24015	Laboratory equipment and techniques	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√
Second year / Four	FOR-24016	Forensic computer applications	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√
Second year / Four	FOR-24017	Investigation and criminal investigation	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√
Second year / Four	FOR-24018	Illustrated criminal report	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√
Third year / Five	FOR-35019	Molecular application	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√

Self-evaluation of Forensic evidence Dept. according to ABET Standards 2023-2024

Third year / Five	FOR-35020	Analytical Chemistry	Basic	√	√	√	√	√	√	√	√	√	√	√	√
Third year / Five	FOR-35021	Chemical and microscopic detection methods	Basic	√	√	√	√	√	√	√	√	√	√	√	√
Third year / Five	FOR-35022	Forensic chemistry	Basic	√	√	√	√	√	√	√	√	√	√	√	√
Third year / Five	FOR-35023	Introduction to explosive materials and booby	Basic	√	√	√	√	√	√	√	√	√	√	√	√
Third year / Five	FOR-35024	English language	Basic	√	√	√	√	√	√	√	√	√	√	√	√
Third year / Six	FOR-36025	Introduction to toxins and drugs	Basic	√	√	√	√	√	√	√	√	√	√	√	√
Third year / Six	FOR-36026	The effects of criminal evidence	Basic	√	√	√	√	√	√	√	√	√	√	√	√
Third year / Six	FOR-36027	Criminal insects	Basic	√	√	√	√	√	√	√	√	√	√	√	√
Third year / Six	FOR-36028	Genetic statistical analysis and	Basic	√	√	√	√	√	√	√	√	√	√	√	√

Self-evaluation of Forensic evidence Dept. according to ABET Standards 2023-2024

		databases														
Third year / Six	FOR-36029	Inks and dyes and their warnings	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√
Third year / Six	FOR-36030	tissue , hair and fibers science	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√
Fourth year / seven	FOR-47031	enviromenta l toxins and distrial pollution	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√
Fourth year / seven	FOR-47032	identify difintion tools	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√
Fourth year / seven	FOR-47033	bioinformati es	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√
Fourth year / seven	FOR-47034	Basics of fingerprint analysis and fonts	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√
Fourth year / seven	FOR-47035	Job ethics	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√
Fourth year / seven	FOR-47036	Crime scene	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√
Fourth year / eight	FOR-48037	Principles of Medical jurispruden	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√

Self-evaluation of Forensic evidence Dept. according to ABET Standards 2023-2024

		ce														
Fourth year / eight	FOR-48038	Identity Definition Tool and Fingerprints	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√
Fourth year / eight	FOR-48039	Principles of Islamic Criminal Legislation	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√
Fourth year / eight	FOR-48040	Cybercrime	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√
Fourth year / eight	FOR-48041	Preventive policy and crime prevention	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√
Fourth year / eight	FOR-48042	Graduation project	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√

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

- **Compatibility of the curriculum with the program’s educational objectives:**

The College has full authority to determine, review, implement and achieve the educational objectives of the program. The primary role of the College is to establish, review and evaluate program topics as well as set and

review the educational objectives of the program and ensure the achievement of student outcomes. Therefore, the above process ensures that the curriculum is aligned with the educational objectives of the program as shown in the various tables. The Department of Biology ensures that students receive all scientific analyzes within the context of the science program.

6th Axis: Teaching staff

The Forensic Evidence Department Chair is responsible for all aspects of department management. The department has an administrative system with a clear structure in terms of responsibilities, and the administrative work in the department is distributed within an organizational structure. Note that the Forensic Evidence Department's program is determined by the Department Council, which in turn sets the foundations and basics for execution the program since the beginning of the academic year, while providing the opportunity for faculty members to contribute to making this policy through their participation in the various department committees, which in turn submit recommendations to the department's management for the purpose of take it into account when making decisions.

a. Description of faculty members in the Biology Department

The department of Forensic Evidence is distinguished by teaching staff from all precise specializations in Forensic Evidence specialization and from international and local universities, the department includes 10 lecturers staff, distributed according to their certificates and scientific titles in following table.

Academic Degree							Source of Diploma		Total No.
Assistant lecturer	Lecturer		Assistant professors		Professors		Outside country	Inside country	
4	4		1		1			10	10
	MSc	PhD	MSc	PhD	MSc	PhD			
	1	3		1	-	1			

A. Names of Faculty members of the Biology Department

NO.	Name	Academic degree
1.	Dr. Raed salem Al-Saffar	Professor
2.	Dr. Ghada Abdul-Razzaq Mohammad	Asst. Prof.
3.	Dr. Mowafak Khalil Hasan	Asst. prof.
4.	Dr.Falknaz Rashied Kadier	Professor
5.	Dr.Thajer Sultan Darwesh	Professor
6.	Luma Ahmed Mubarak	Professor
7.	Muna Sobhi Abdullah	Professor
8.	Sara Nazar Ghanem	Professor
9.	Rasha Mohammed Salih	Professor
10.	Yathreb Mashaalaah Hamed	Professor

1	name	
---	------	--

2	Shaher Shehab Youssef	Assistant Physical
3	Salwa Khalid Sulaiman	Assist. Chemical

7th Axis: The Department's Infrastructure

Study buildings and laboratories

The department includes offices and annexes, including classrooms, administrative offices, and laboratories. The department has building qualified for theoretical and practical teaching as follows.

Classrooms

The department has 6 classrooms qualified to receive students at the undergraduate, and they are equipped with most of the needs and illustrative means for delivering lectures and scientific discussions.

Laboratories : They are shown in the following table.

Laboratories of Forensic evidence department

Using Primary lab	Hours No. In work	Laboratory readiness %	Devices No.	Student NO.	Lab area M ²	Name of laboratory
Primary	24	90%	10	30	8×12	Life Science
Primary	24	40%	7	30	8×12	Chemistry lap
Primary	24	40%	5	30	8×12	Molecular Forensic evidence
Primary	12	40%	3	30	8×12	Physiology and tissues
Primary	12	25%	5	18	8×12	Insects
Primary	12	0	4	18	8×12	Devices

Primary	24	0	10	19	8×12	Calculators
Primary	2	0	10	30	8×12	Research

Library and references

The department has a small , newly built office library that includes various books from different publishing sources, as well as Iraqi and Arab scientific journals, as well as periodic CDs of books and modern research. The second suite includes a reading room equipped with air conditioning and cooling equipment, as well as obedience supplies. The department plans to expand the library, whether in archiving books and resources or the reading room.

8th Axis: Institutional Support

Supporting the educational institution in terms of financial resources and constructive leadership must be effective to ensure the sustainability and value of the program. Resources must be prepared to ensure the continuity and operation of all facilities and laboratory equipment related to the program, in addition to supporting the service-related items.

The Department of Forensic evidence is affiliated with the College of Science at the University of Mosul. The College of Science contains the Accounts Division, which manages financial affairs at the college level. Addition to support from international organizations and civil society organizations. However, these contributions constitute only a small portion of government allocations. Therefore, the main source of financial support for departments is from government allocations.

Government allocations to the department

The allocations included the provision of a fire system, laboratory equipment, and classroom chairs.

Chapter III

Results and analysis using (SWOT)

And improvement plan

SWOT analysis system

SWOT analysis is known as the framework that is used to evaluate a company or institution, identifying its strengths and weaknesses, and identifying the opportunities and threats that may be exposed to it. It is also called the “SWOT matrix” or the “Quarter analysis tool.” This analysis is not limited to projects only, but rather includes several other fields such as marketing, human development, and business management. The emergence of this analysis goes back to experts at Stanford University, where this analysis was conducted between 1960 and 1970 under the supervision of Albert Humphrey, with the aim of identifying the reasons for the failure of joint planning, the resulting economic problems, and how to address them.

The importance of SWOT analysis

SWOT analysis is responsible for helping projects on improvement their position in the market, as its importance stems from the fact that it works on:

1. Show strengths and exploit them to achieve project goals.
2. Show weaknesses, work to correct them and benefit from them.
3. Explore good opportunities and benefit from them in developing the project.
4. Study potential threats to the project, and work to avoid them.

5. Develop alternative plans, supplementary plans, and emergency arrangements for the project.
6. Work on marketing strategies, so that they are creative and distinctive.
7. Prepare a risk management plan for the project.
8. It helps measure the project's performance compared to its competitors in the market.
9. Knowing and identifying tools that help develop project performance.

SWOT analysis is used in the strategic planning process, as it is an important tool for exploring opportunities for success and where threats are located.

SWOT Analysis Elements:

SWOT analysis is an abbreviation of four words in the English language that represent the elements on which the analysis is based. These elements relate to the external and internal environment of the project, which are:

Strengths S

Weaknesses W

Opportunities O

Threats T

Results

The results of the self-evaluation study showed the extent to which the standards were met as follows.

درجة المطابقة			Standard name	Standard NO.
Totally	Partially	NO		
✓			Students	1
✓			Objective of educational program	2

✓			Program outputs	3
	✓		Continuous quality improvement	4
✓			Curriculum	5
✓			Teaching staff	6
	✓		The capabilities and infrastructure of the department	7
	✓		Institutional support	8

Analysis the outcomes by SWOT

1st Axis :Students

Strength point

- Provides modern resources and books for students and provides free education books for undergraduates studies .
- The educational institution provides a clear, specific and announced admission policy.
- Introductory and instructive booklets for student services are available, which are the student’s guide.
- The department’s sponsorship of artistic and sports activities
- There are mechanisms for activating communication with graduates.

Weaknesses

- Accepting students to colleges on a central basis sometimes does not reflect the students’ desire.
- There are no foreign students.
- The small number of scholarships available to students at reputable international universities.

Opportunities

- Put scientific visit programs to enhance the practical aspect of students.

- Modernizing studies and curricula and focusing more on extracurricular scientific activities.

Risks

- Reflection of the risks of the security situation on the lives of students.
- Lack of job opportunities after graduation, which affects students' motivation.

Improvement plan

- Providing financial support to develop scientific, artistic, sports, cultural capabilities and encouraging students to participate in fields that match their interests and needs.
- Improving teaching and learning through continuous evaluation.
- Continuous development of the infrastructure of the administration and the department as whole
- Encouraging teamwork among students.

2nd Axis: Objectives Academic Program

Strength Point

*Publishing the mission, vision, and goals of the university, college, and department on their websites.

Weaknesses

- There is no mission and vision for the educational program level.
- The lack of a mechanism to activate relations between the corresponding departments and colleges at the Arab and international levels.

Improvement plan:

- *Disseminate the content and message of the department outside the institution by presenting it to the society, such as parents of students.
- *A plan must be developed to build relationships between the institution and international institutions.
- *A clear strategy must be drawn up and followed to measure the criterion for achieving the goal.
- *Forming a unit to develop students' non-athletic talents, noting that the college contains a sports unit in addition to sports, which already exists.

3rd Axis: The Outcomes of Program

Strength point

- Publishing the educational objectives of the university, college and department on their websites as well .
- The teaching methods are appropriate, which facilitates the teaching work to develop the lecture method.
- There is a research orientation in the department.
- Strengthening the cooperation mechanism with society through cooperation mechanism channels.
- Follow an organized approach in the department regarding the distribution of responsibilities and management in the department.

Weaknesses:

- Limited training and development courses for teaching and administrative staff.

- Limited allocations for scientific research, fees for lectures, supervision of graduate studies, and scientific evaluation.
- Limited opportunities to exchange experiences with external universities.

Opportunities:

- Interest in obtaining accreditation.
- Signing a memorandum of understanding with different universities.
- State institutions and the private sector in Iraq need researchers specialized in life sciences.
- The need for a number of department members to contribute and benefit from agreements with corresponding universities.
- Enhancing the practical aspect and exchanging experiences through joint seminars and conferences with many parties and field visits.

Risks:

- Lack of awareness of the importance of Forensic evidence in areas of societal life.
- Lack of awareness of the extent of health problems.

Improvement plan

- Develop a plan and prepare a team to make visits to the institutions where college graduates work to learn about their scientific competencies.
- Conducting a survey of graduates in the labor market.
- The educational institution prepares annual evaluation reports on the contributions it has made to society in detail.
- Setting a dedicated budget to organize student training programs in specialized institutions locally and internationally.

4th Axis : Continues Improvement

Strength point

- The department began the process of continuous assessment, evaluation, and improvement .
- The preparation of the course portfolio began through lectures and ongoing advice to the faculty by the department's Quality Assurance Committee and the Dean's Office.

Weaknesses:

- Lack of sufficient green spaces.

Opportunities:

- Continuous encouragement and support from the Dean's Office and the Dean personally of the departments.

Risks:

- Lack of financial support.
- Lack of modern tools, methods and techniques used in teaching and learning.

Improvement plan

- There is a serious interest in addressing these weaknesses through instructions from the dean sent to each department. These instructions are the necessity of providing the largest number of classrooms and equipping them with all the modern methods used in the traditional as well as electronic education method. Each department in the college should also be trained by experts to familiarize faculty members with new teaching and learning methods and encourage faculty members to use them.
- Identifying additional programs and courses for outstanding students.
- Conduct an evaluation of educational outcomes so that they are compatible with local and international standards.
- Adopting other types of education (open education, distance education).
- Increase financial support for the department/section .

5th Axis :Curriculum

Strength point :

- Scientific topics consist of sciences that are appropriate to the student's field of study.
- Teaching methods enhance student learning in the department.
- A special committee, the Curricula Evaluation and Review Committee, writes their proposals, if any, to develop the curriculum.

Weaknesses:

- The curriculum does not help students learn the principle of teamwork.
- The absence of mechanisms for taking the opinions of those concerned with the labor market into the program.

Opportunities:

- Coordinating with international university faculties and accrediting their programs in order to reduce time and effort to reach an advanced stage in curriculum development.
- Redesigning curricula to allow for interdisciplinary teaching and learning.

Risks:

- Failure to meet the changing labor market requirements and development through school curricula due to rapid developments in all fields.

Improvement plan

- Increasing the number of agreements with corresponding departments in reputable international universities to develop Curricula and hosting curriculum experts at international universities to discuss their evaluation mechanisms and its development.
- Increased financial support and increased number of agreements with corresponding departments in reputable international universities for Curriculum Development.
- Develop a plan to study the curricula to be developed and select the corresponding departments.
- Curriculum development should be more flexible and generally controlled by the college.
- The curriculum must include the principle of teamwork

6th Axis: Faculty Members

Strength point:

- The teaching methods are appropriate, which facilitates the teaching work to develop the lecture method.
- There is a very good research orientation in the department.
- Strengthening the cooperation mechanism with society through cooperation channels.
- Follow an organized approach in the department regarding the distribution of responsibilities and management in the department.

Weaknesses:

- Limited training and development courses for teaching and administrative staff.
- Limited allocations for scientific research, fees for lectures, supervision of graduate studies, and scientific evaluation.
- Limited opportunities to exchange experiences with external universities.

Opportunities:

- The need for a number of department members to contribute and benefit from agreements with corresponding universities.
- The need to benefit from the expertise of departments related to the department to develop curricula to serve the health and environmental reality in the city.
- The Foundation allocates some incentive rewards and certificates of appreciation to creative and distinguished faculty members in the fields of teaching, scientific research and community service.
- The institution adopts some rules to develop the professional capabilities of faculty members
- Enhancing the practical aspect and exchanging experiences through joint seminars and conferences with many parties and field visits.
- Opportunities to sign research cooperation contracts with state institutions to serve society and direct research towards the applied direction.

Risks

- The modest experience of some teachers sometimes prevents the proper implementation of the curriculum.

7th Axis : Infrastructure

Strength point

- Some laboratories are equipped with not too bad equipment.

Weaknesses:

- The department needs sufficient additional offices for faculty members and an expansion of laboratories.
- It is necessary to provide the department and laboratories with modern and advanced devices and equipment.
- The department needs to an elevator.

Opportunities:

- Developing the laboratory by subjecting it to calibration and quality requirements.
- Encouraging cooperation with state departments to act as a bridge between the university and society.
- Classrooms and laboratories must be available with modern equipment that is compatible with the objectives of the program and provides an appropriate educational environment.
- Providing these requirements is necessary to increase interaction between the teaching staff and students and to create an appropriate and encouraging climate for the growth and development of the profession.
- The program must provide an opportunity for students to learn and use the latest scientific equipment.
- Information technology infrastructure must be available to support the educational activities carried out by students and teachers and the educational objectives of the program and the educational institution.

Risks:

- The continued limited financial allocations lead to a narrow location in the department and limited laboratory halls.
- Limited development of laboratory equipment due to financial allocations and severe routine in this field.

Improvement plan

- Providing an elevator for the department.

8th Axis: Institutional Support

Strength Point:

- Good teaching income .

Weaknesses:

- Purchasing procedures are complex and restricted.

•Insufficient funding for research and purchasing the necessary devices and equipment.

Risks:

Financial corruption and the security situation that affects the state and its capabilities in general.

Improvement plan:

- Adopting self-financing sources.
- Increase funding for maintaining devices and equipment and purchasing new devices.
- Ensuring integration between material resource planning and the college plan and providing financial allocations.
- Preparing intensive training and professional development programs for specialists in the field of active investment.
- The college must have the ability to make appointments, retirements, or transfers of employees.

The file for completing the self-evaluation report for ABET standards for the Forensic evidence Department was reviewed, audited and approved by:

scientific Committee

the signature

the name

the date

Head of Department

the signature

the name

the date

Quality Assurance and Performance Evaluation Division

the signature

the name

the date

Assistant Dean for Scientific Affairs

the signature

the name

the date

Dean

the signature

the name

the date