



Ministry of Higher Education and Scientific Research
Scientific Supervision and Evaluation System
Quality Assurance and Academic Accreditation Department

Academic Program Description Form for Colleges
For the academic year 2026-2025

University: Wasit University
College/Institute: College of Science
Scientific Department: Department of Forensic Sciences

File Fill Date : / / 2026

Signature:

Name of Head of Department: Asst.prof Dr.Rafed
Abbas Kadhum

Date:

Signature:

Asst. Scientific Name: Dr.ali jabar frauah

Date:

The file was audited by:

Division of Quality Assurance and University Performance

Signature:

Name of Division of Quality Assurance and University Performance: Dona fadal

Date : / / 2026

Approval of Dean

Assist Prof
Dr. Faik Jameel Hassan Mawad
Dean

Dr. Faik Jameel Hassan
Dean

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information				
معلومات المادة الدراسية				
Module Title	Genetic	Module Delivery		
Module Type	C	☒ Theory ☒ Lecture ☒ Lab ☐ Tutorial ☐ Practical ☐ Seminar		
Module Code	FOR013			
ECTS Credits	7			
SWL (hr/sem)	175			
Module Level		UGI	Semester of Delivery	One
Administering Department		FOR	College	College of science
Module Leader	Dr. .Rafed Abbas Kadhum		e-mail	Rafedabbass@uowasit.edu.iq
Module Leader's Acad. Title		Asst.prof.Dr	Module Leader's Qualification	Ph.D.
Module Tutor	Not available		e-mail	Not available
Peer Reviewer Name		Not available	e-mail	Not available
Scientific Committee Approval Date		14/9/2024	Version Number	1.0

Relation with other Modules			
العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	None	Semester	
Co-requisites module	None	Semester	

Module Aims, Learning Outcomes and Indicative Contents	
Module Aims	Genetics provides an introduction to both classical and modern molecular genetics. We start by looking at Mendelian genetics, including consideration of how genetic maps are created and an introduction to human pedigrees. We then examine the basic mechanisms of transcription and translation and how gene expression can be regulated. The module concludes by considering the molecular tools that geneticists use and how these have been used to uncover the content of diverse genomes.
Module Learning Outcomes	By the end of this module a student will be able to: Define what is a gene and understand how genotype relates to phenotype Describe how genetic material is transmitted Construct genetic maps based upon linkage data Solve Mendelian Genetic problems Describe the basic mechanisms of transcription and translation Solve problems to demonstrate an understanding of how gene expression is controlled Understand some of the principles of recombinant DNA technology Compare and contrast the content and organization of prokaryotic and eukaryotic genomes
Indicative Contents	Task % of module mark Online Exam -less than 24hrs (Centrally scheduled) 100 Special assessment rules None Indicative reassessment Task % of module mark Online Exam -less than 24hrs (Centrally scheduled) 100
Learning and Teaching Strategies	
Strategies	1. and protein synthesis. 2. Teach meiosis with genetics, not with mitosis in cells. 3. Emphasize the complexity of inheritance. 4. Discuss epigenetics. 5. Create space for students to ask questions, research, and explore extension topics that interest them.

Student Workload (SWL)			
الحمل الدراسي للطالب محسوب لـ ١٥ أسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	88	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	7
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	87	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	2
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	175		

Module Evaluation					
تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	7, 12	L# 1,2,3,4,5 & 6,7,8,9
	Assignments	1	2	14	10,11,12,13
	Lab.	3	10% (10)	Continuous	All
	Report	1	10%(10)	Continuous	All
Summative assessment	Midterm Exam	2 hr	20% (10)	17	All
	Final Exam	3hr	50% (50)	19	All
Total assessment			100% (100 Marks)		
Delivery Plan (Weekly Syllabus)					
المنهاج الاسبوعي النظري					
	Material Covered				
Week 1	Introduction to genetic				
Week 2	Classical mendelian genetics				
Week 3	The population genetics				
Week 4	Human genome				
Week 5	Functions of gene and chromosome				
Week 6	Mitosis and meiosis genetic code				
Week 7	Genetic variation				
Week 8	Gene flow and new species				
Week 9	Mutation and chromosomal abnormalities				
Week 10	Karyotype , banding techniques				
Week 11	Mutagens and carcinogens				

Week 12	Quiz
Week 13	Autosomal dominant inheritance
Week 14	Autosomal recessive inheritance
Week 15	Quiz
Week 16	Preparatory week before the final Exam

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	Organism supported as a model system for genetics
Week 2	The first law of Mendel and deviations from Mendel's first law
Week 3	The second law of Mendel and deviations from Mendel's second law
Week 4	The quantitative inheritance
Week 5	Genetics and sex
Week 6	Link and crossing over
Week 7	Cases of crossing over suppression
Week 8	Genetic mapping
Week 9	Multiple alleles
Week 10	The deadly genes
Week 11	Kay square
Week 12	Inheritance of clans
Week 13	Descent records
Week 14	Preparatory week before the final Exam
Week 15	Final Exam

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	Genetic Lectures prepared by subject's teacher	NO
Websites		

Grading Scheme

مخطط الدرجات

Group	Grade	التقدير	Marks (%)	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors

	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information				
معلومات المادة الدراسية				
Module Title	Crime scene		Module Delivery	
Module Type			☒ Theory ☒ Lecture ☒ Lab ☐ Tutorial ☐ Practical ☐ Seminar	
Module Code	FOR1101			
ECTS Credits	6			
SWL (hr/sem)	175			
Module Level		UGI	Semester of Delivery	One
Administering Department		FOR	College	College of science
Module Leader	Dr. .Rafed Abbas Kadhum		e-mail	Rafedabbass@uowasit.edu.iq
Module Leader's Acad. Title		Asst.prof.Dr	Module Leader's Qualification	Ph.D.
Module Tutor	Not available		e-mail	Not available
Peer Reviewer Name		Not available	e-mail	Not available
Scientific Committee Approval Date		14/9/2024	Version Number	1.0

Relation with other Modules				
العلاقة مع المواد الدراسية الأخرى				
Prerequisite module	None		Semester	
Co-requisites module	None		Semester	

Module Aims, Learning Outcomes and Indicative Contents	
Module Aims	This module will provide a detailed introduction to crime scene processing, the role of Crime Scene Investigators in the seizure of physical evidence, and the integration of different forensic techniques from simple to complex crime-scene.
Module Learning Outcomes	On successful completion of this module, students will be able to... Understand the principles of crime scene investigation as practiced by police forces Prioritise activities at a crime scene, seize evidence and produce written scene notes and photographs to a professional standard Demonstrate through the paper based scenario that they can prioritise forensic evidence from a complex scene and produce a robust forensic strategy document Problem solve within a simulated crime scene scenario, to self-manage with a defined project in co-operation with other team members
Indicative Contents	Task % of module mark Online Exam -less than 24hrs (Centrally scheduled) 100 Special assessment rules None Indicative reassessment Task % of module mark Online Exam -less than 24hrs (Centrally scheduled) 100
Learning and Teaching Strategies	
Strategies	Learning, Teaching and Assessment Strategy This is a capstone module for scene based forensic processes and protocols. Lectures are used to explore key themes, which are practised during practical sessions and simulated crime scenes. Coursework brings these aspects together in a written exercise. During Directed Study hours students are expected to undertake reading to consolidate and expand on the content of formal taught sessions; research and prepare for assessments; revise material from formal taught sessions; undertake specific elements of reading as directed.

Student Workload (SWL)			
الحمل الدراسي للطالب محسوب لـ ١٥ أسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	88	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	7
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	87	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	2
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	175		

Module Evaluation					
تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	7, 12	L# 1,2,3,4,5 & 6,7,8,9
	Assignments	1	2	14	10,11,12,13
	Lab.	3	10% (10)	Continuous	All
	Report	1	10%(10)	Continuous	All
Summative assessment	Midterm Exam	2 hr	20% (10)	17	All
	Final Exam	3hr	50% (50)	19	All
Total assessment			100% (100 Marks)		
Delivery Plan (Weekly Syllabus)					
المنهاج الاسبوعي النظري					
	Material Covered				
Week 1	Crime scene concept				
Week 2	Types of Crime Scenes				
Week 3	Crime Scene as a Component of the Forensic System				
Week 4	Quiz				
Week 5	Human Evidence				
Week 6	methods of Preservation criminals evidence				
Week 7	Tools & Equipment's for Crime Scene Investigation				
Week 8	The new techniques to investigate crimes				
Week 9	Seminar				

Week 10	Criminal investigation
Week 11	Qualities of a criminal investigator
Week 12	Quiz
Week 13	The concept of forensic research
Week 14	sources of forensic research
Week 15	EXAM
Week 16	Preparatory week before the final Exam

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	Crime scene
Week 2	Fingerprinting
Week 3	Types of fingerprinting
Week 4	Murder investigation report
Week 5	Quiz
Week 6	Investigation procedures
Week 7	Murder investigation report
Week 8	Suicide report
Week 9	Types of theft report
Week 10	Types of fires report
Week 11	Types of forensic evidence
Week 12	Transfer and storage of forensic evidence
Week 13	Drug and toxic
Week 14	Type of forensic department
Week 15	Final Exam

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	Crime scene Lectures prepared by subject's teacher	NO
Websites		

Grading Scheme

مخطط الدرجات

Group	Grade	التقدير	Marks (%)	Definition
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Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

MODULE DESCRIPTION FORM

Module Description Form

Module Information			
Module Information			
Module Title	Investigation and criminal investigation		Module Delivery
Module Type	Core		☒ Theory ☐ Lecture ☐ Lab ☐ Tutorial ☐ Practical ☒ Seminar
Module Code	FOR24019		
ECTS Credits	3		
SWL (hr./seem)	75		
Module Level	2	Semester of Delivery	Four
Administering Department	Forensic science	College	college of science
Module Leader	Dr. Wagna Razzaq Abed	e-mail	wagna@uowasit.edu.iq
Module Leader's Acad. Title	Asst.prof	Module Leader's Qualification	PhD
Module Tutor	Name (if available)	e-mail	wagna@uowasit.edu.iq
Peer Reviewer Name	Name	e-mail	E-mail
Scientific Committee Approval Date	01/06/2024	Version Number	1.0

Relation with other Modules			
Relation with other Modules			
Prerequisite module	Forensic Science	Semester	First
Co-requisites module	Criminal Procedure Law	Semester	

Module Aims, Learning Outcomes and Indicative Contents	
Module Aims, Learning Outcomes and Indicative Contents	
Module Aims Module Aims	1.Understanding the fundamentals of criminal investigation: Providing students with basic knowledge about the stages of criminal from evidence collection to presenting results in court investigation 2.Teaching methods for collecting and :Handling forensic evidence analyzing various forensic evidence such as fingerprints, biological evidence, and digital evidence Crime scene analysis: Enabling students to scientifically examine t and analyze crime scene and use correct methods to protec 3.the evidence 4.Using advanced criminal research techniques: Training students on using modern techniques such as digital forensic investigation Application to laws and procedures: Emphasizing the importance 5.of procedures during criminal investigations to following strict legal ensure individual rights and maintain investigation integrity
Module Learning Outcomes Module Learning Outcomes	1. Acquiring skills in collecting and analyzing forensic evidence: Understanding how to collect and analyze evidence from a crime scene using modern scientific techniques such as fingerprinting, fiber optics, blood analysis, and digital forensics. 2. Mastering interrogation and investigation techniques: Developing skills in interrogating suspects and witnesses using effective legal methods while respecting individual rights. 3. Applying correct legal procedures in investigations: Understanding legal procedures related to criminal investigations, including the rights of the accused and ensuring that investigations are conducted fairly and legally. 4.Using technology in criminal investigations: Acquiring the ability to use advanced technological tools such as digital forensics and .evidence analysis software to keep pace with modern developments in the field
Indicative Contents Indicative Contents	The guidance content includes the following .Teaching and learning methods: -1 Lectures -2 solving-Explanation, discussion, and problem -3

	Assigning tasks (writing reports and homework) -4
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Learning and Teaching Strategies	
Learning and Teaching Strategies	
Strategies	Teaching and learning strategies and methods adopted in the implementation of the program in general related to criminal investigation, such as Working in groups on realistic projects .simulating a crime investigation or analyzing evidence from a crime scene understanding and personal assessment for each student based on theirP .escomprehension of this subject and identifying strengths and weakness

Student Workload (SWL)			
الحمل الدراسي للطالب محسوب لـ ١٥ أسبوعا			
Structured SWL (h/seem) (Structured SWL (h/sem	48	Structured SWL (h/w) (Structured SWL (h/w	3
Unstructured SWL (h/seem) (Unstructured SWL (h/sem	27	Unstructured SWL (h/w) (SWL (h/w Unstructured	1.8
Total SWL (h/seem) (Total SWL (h/sem	75		

Module Evaluation					
Module Evaluation					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	20% (20)	5, 10	LO #1, 2, 10 and 11
	Assignments	2	10% (10)	2, 12	LO # 3, 4, 6 and 7
	Projects / Lab.	1	10% (10)	All	(010%10
	Report				
Summative	Midterm Exam	2 hr.	10% (10)	7	LO # 1-7

assessment	Final Exam	2hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
Weekly Syllabus	
	Material Covered
Week 1	Concept and Objectives of Investigation
Week 2	Historical Development of Criminal Investigation and Research
Week 3	Techniques and Methods of Criminal Investigation
Week 4	Investigation, Surveillance, and Criminal Research Procedures
Week 5	Photography and Securing Evidence at the Crime Scene
Week 6	Development of Forensic Laboratory Equipment
Week 7	Criminal Statistics and its Role in Combating Crime
Week 8	Detecting Theft Crimes using Modern Scientific Methods
Week 9	Investigation in Drug Cases
Week 10	Fingerprint Detection
Week 11	Technical Principles of Investigating Traffic Cases
Week 12	. Investigation of Fire Incidents
Week 13	Combating Car Theft Crimes
Week 14	.Preparatory work before the final exam

Learning and Teaching Resources		
Learning and Teaching Resources		
	Text	Available in the Library?
Required Texts	Textbooks used in Iraqi universities.	Yes
Recommended Texts	University lectures that rely on these books as primary references	
Websites		

Grading Scheme				
Grading Scheme				
Group	Grade	Grade	Marks (%)	Definition
Success Group (50 - 100)	A - Excellent	Excellent	90 - 100	Outstanding Performance
	B - Very Good	Very Good	80 - 89	Above average with some errors
	C - Good	Good	70 - 79	Sound work with notable errors
	D - Satisfactory	Satisfactory	60 - 69	Fair but with major shortcomings
	E - Sufficient	Sufficient	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	FX – Fail	(فقد المعالجة) Fail	(45-49)	More work required but credit awarded
	F – Fail	Fail	(0-44)	Considerable amount of work required

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

MODULE DESCRIPTION FORM

Module Information				
Module Title	Arabic Language		Module Delivery	
Module Type	Theory		☒ Theory ☒ Lecture ☐ Tutorial ☐ Practical ☐ Seminar	
Module Code	FOR009			
ECTS Credits				
SWL (hr/sem)				
Module Level	Theory	Semester of Delivery	2	
Administering Department	Type Dept. Code	College	College of Science/Wasit University	
Module Leader	Saja Jawad Mahdi		e-mail	sajaaltae@uowasit.edu.iq
Module Leader's Acad. Title	Lecturer	Module Leader's Qualification		
Module Tutor	Saja Jawad Mahdi		e-mail	sajaaltae@uowasit.edu.iq
Peer Reviewer Name	None	e-mail	E-mail	
Scientific Committee Approval Date	1/3/2024	Version Number	1.0	

Relation with other Modules			
Prerequisite module	None	Semester	
Co-requisites module	None	Semester	

Module Aims, Learning Outcomes and Indicative Contents	
Module Aims	1. Knowledge of grammatical and morphological rules to avoid linguistic errors. 2. Employing language in writing scientific research. 3. Developing the student's ability to dialogue, discussion and participation. 4. Increasing students' knowledge by assigning them to prepare reports by Arabic language.
Module Learning Outcomes	Knowledge, understanding and avoid linguistic errors

Learning and Teaching Strategies	
Strategies	1. Interactive lectures 2. Group discussions 3. Scientific reports 4. Cooperative learning 5. Personal evaluation

Student Workload (SWL)			
The student's academic load is calculated for 15 weeks			
Structured SWL (h/sem)	109	Structured SWL (h/w)	7
Unstructured SWL (h/sem)	91	Unstructured SWL (h/w)	6
Total SWL (h/sem)	200		

Module Evaluation					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	5, 10	LO #1, 2, 10 and 11
	Assignments	2	10% (10)	2, 12	LO # 3, 4, 6 and 7
	Projects / Lab.	1	10% (10)	Continuous	All
	Report	1	10% (10)	13	LO # 5, 8 and 10
Summative assessment	Midterm Exam	2 hr	10% (10)	7	LO # 1-7
	Final Exam	2 hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
	Material Covered
Week 1	Arabic Grammar - Subject and Object
Week 2	Plural of The Masculine Salem
Week 3	Plural of The Feminine Salem
Week 4	The Five Names
Week 5	The number, Its Deuteronomy, and Its Plural
Week 6	The Exception in The Arabic Language
Week 7	The Five Verbs
Week 8	Query

Week 9	Emphasis
Week 10	Literature - The Emergence and Development of Literature in Literary Times
Week 11	Free Poetry
Week 12	The poet Badr Shaker Al-Sayyab and the poet Nazik Al-Malaika
Week 13	Taha Hussein
Week 14	Linguistic errors
Week 15	Dictation Material - Writing Taa and Haa - The Thousand Compartments and Extended and The Application of Dictation
Week 16	Exam

Learning and Teaching Resources		
	Text	Available in the Library?
Required Texts	Lectures prepared by the tutor	Yes
Recommended Texts	None	No
Websites	Lectures on the subject / Internet	

Grading Scheme			
Group	Grade	Marks (%)	Definition
Success Group (50 - 100)	A - Excellent	90 - 100	Outstanding Performance
	B - Very Good	80 – 89	Above average with some errors
	C - Good	70 – 79	Sound work with notable errors
	D - Satisfactory	60 – 69	Fair but with major shortcomings
	E - Sufficient	50 – 59	Work meets minimum criteria
Fail Group (0 – 49)	FX – Fail	(45-49)	More work required but credit awarded
	F – Fail	(0-44)	Considerable amount of work required
Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.			

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information					
معلومات المادة الدراسية					
Module Title	Laboratory equipment and techniques		Module Delivery		
Module Type	C		☒ Theory ☐ Lecture ☒ Lab ☐ Tutorial ☐ Practical ☒ Seminar		
Module Code	FOR24018				
ECTS Credits	6				
SWL (hr/sem)	150				
Module Level		2	Semester of Delivery		Four
Administering Department		Forensic science	College	College of science	
Module Leader	Drs.Sura Emad Jassim		e-mail	Sura.emad@uowasit.edu.iq	
Module Leader's Acad. Title		Asst.prof	Module Leader's Qualification		Ph.D.
Module Tutor	Not available		e-mail	Not available	
Peer Reviewer Name		Not available	e-mail	Not available	
Scientific Committee Approval Date		22/11/2023	Version Number		1.0

Relation with other Modules			
العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	None	Semester	
Co-requisites module	None	Semester	

Module Aims, Learning Outcomes and Indicative Contents	
Module Aims	The course of Forensic Laboratory Equipment aims to introduce students to the specialized devices and equipment used in forensic medicine and forensic analysis laboratories. The course focuses on studying the different types of devices used in criminal investigations, such as the analysis of physical evidence (blood, hair, fibers, fingerprints), chemical analysis, and biological and physical examinations. It also identifies the methods of using these devices accurately and safely within ethical and legal standards to ensure the credibility of evidence.
Module Learning Outcomes	1- The student defines the fundamental operating principles of forensic laboratory instruments (e.g., centrifuges, spectrophotometers, and electrophoresis systems) in accordance with standard protocols. 2- The student explains the calibration mechanisms of laboratory instruments to ensure the accuracy and reliability of analytical results. 3- The student lists the primary components of each laboratory instrument and their respective functions during operation. 4- The student analyzes the electrophoretic separation patterns obtained from electrophoresis systems to interpret DNA profiles and forensic evidence. 5- The student differentiates between calibrated instrument readings and those requiring recalibration, based on control sample measurements. 6- The student applies preventive maintenance guidelines and correct operational procedures for instruments in accordance with manufacturer instructions. 7- The student executes occupational safety procedures and risk management protocols when operating centrifuges and thermal equipment. 8- The student utilizes modern techniques and instruments (such as spectrophotometers and automated analyzers) to perform laboratory testing. 9- The student works effectively within a multidisciplinary laboratory team to complete routine analyses. 10- The student adheres to professional ethics and implements total quality control standards when operating forensic laboratory equipment.
Indicative Contents	1. Understanding and knowledge. 2. Creativity and scientific thinking. 3. Forensic analysis techniques using devices such as microscopy, spectroscopy, and biological analysis 4. The importance of using laboratory devices in criminal cases. 5. Extraction methods
Learning and Teaching Strategies	
Strategies	1- The course includes theoretical lectures, practical workshops in forensic laboratories, and interactive case studies.

	2- Practical training is also conducted on the use of laboratory equipment under the supervision of specialists in the field of forensic medicine, in addition to simulating criminal cases to analyze evidence using these devices. 3- This description explains to students the scope and objectives of the course and highlights the importance of laboratory equipment in the field of criminal justice. 4- Self-development by reviewing the latest developments in the field of specialization and contributing and participating in training courses, lectures and scientific seminars prepared for this purpose. 5- Diversity in explanation and presentation methods. 6- The method of delivering the lecture with the use of PowerPoint and explanatory films. 7- Holding class and extracurricular activities to enhance knowledge and understanding. 8- Continuous discussion by asking questions and answers inside the hall and motivating the student to think independently and thus to learn independently in the field to enhance knowledge and understanding and to closely view the practical side. 9- Using various educational means such as the smart board, data show, films and scientific images that bring the subject closer to the students' minds.
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Student Workload (SWL)			
الحمل الدراسي للطلاب محسوب لـ ١٥ أسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطلاب خلال الفصل	79	Structured SWL (h/w) الحمل الدراسي المنتظم للطلاب أسبوعيا	5
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطلاب خلال الفصل	71	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطلاب أسبوعيا	4.7
Total SWL (h/sem) الحمل الدراسي الكلي للطلاب خلال الفصل	150		

Module Evaluation					
تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	7, 12	L# 1,2,3,4,5 & 6,7,8,9
	Assignments	1	10%(10)	14	10,11,12,13
	Lab.	2	10% (10)	Continuous	All
	Report	1	10%(10)	Continuous	All
Summative assessment	Midterm Exam	2 hr	10% (10)	17	All
	Final Exam	3hr	50% (50)	19	All

Total assessment		100% (100 Marks)		
Delivery Plan (Weekly Syllabus)				
المنهاج الاسبوعي النظري				
	Material Covered			
Week 1	Introduction of lab instrumentation			
Week 2	Microscope define,different types and parts and using in forensic			
Week 3	Spectrophotometer and using in forensic			
Week 4	SEM(Scanning Electron Microscope)			
Week 5	Laboratory centerifuge			
Week 6	Temperature control instrument, incubator, waterbath.			
Week 7	Exam			
Week 8	Autoclave, hot air oven theory and principle			
Week 9	Hot magnetic stirrer, Hot plate			
Week 10	Balance, Electrophoresis theory and principle			
Week 11	Real time PCR in forinsic			
Week 12	Quiz			
Week 13	Polymerase chain reaction in forensic			
Week 14	GC Specctroscopy in forensic			
Week 15	Exam			
Week 16	Preparatory week before the final Exam			
Delivery Plan (Weekly Lab. Syllabus)				
المنهاج الاسبوعي للمختبر				
	Material Covered			
Week 1	Safety in laboratory			
Week 2	Microscope, How to focusyour microscope			
Week 3	Microscope care and maintenance			
Week 4	Making a we mount slide procedure			
Week 5	Laboratory centerfuge and PH meter			
Week 6	Incubator,waterbath (care and use)			
Week 7	Exam			
Week 8	Hot air oven (care and use)			
Week 9	Hot magnetic stirrer, hot plate (care and use)			
Week 10	Balance , electrophoreses (care and use)			
Week 11	Polymerase chain reaction (care and use) ,Real time PCR			
Week 12	Spectrophotometer (care and use)			
Week 13	SEM (Scanning Electron Microscope)			
Week 14	Final Exam			

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	Available in the Library?
Required Texts	Forensic Laboratory Equipment Lectures prepared by subject's teacher	NO
Websites		

Grading Scheme مخطط الدرجات				
Group	Grade	التقدير	Marks (%)	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 - 49)	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required
Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.				

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information				
معلومات المادة الدراسية				
Module Title	Anatomy and Physiology		Module Delivery	
Module Type	C		☒ Theory ☐ Lecture ☒ Lab ☐ Tutorial ☐ Practical ☒ Seminar	
Module Code	FOR23012			
ECTS Credits	5			
SWL (hr/sem)	125			
Module Level		2	Semester of Delivery	Three
Administering Department		Forensic science	College	College of science
Module Leader	Drs.Sura Emad Jassim		e-mail	Sura.emad@uowasit.edu.iq
Module Leader's Acad. Title		Assit.prof	Module Leader's Qualification	Ph.D.
Module Tutor	Not available		e-mail	Not available
Peer Reviewer Name		Not available	e-mail	Not available
Scientific Committee Approval Date		22/ 11/ 2023	Version Number	1.0

Relation with other Modules				
العلاقة مع المواد الدراسية الأخرى				
Prerequisite module	None		Semester	
Co-requisites module	None		Semester	

Module Aims, Learning Outcomes and Indicative Contents	
Module Aims	1- To provide students with foundational knowledge of human anatomy, physiology, anatomical planes, and body cavities. 2- To enable understanding of the histological and functional structures of key body systems, including general tissues, skin, nervous tissue, and the immune system. 3- To examine the detailed structure of the skeletal system (axial, appendicular, and vertebral column) to correlate anatomical features with individual biological characteristics. 4- To apply concepts of Forensic Anthropology by utilizing skeletal remains and anatomical evidence in crime analysis and medico-legal investigations. 5- To develop practical and laboratory skills through the use of anatomical plastic models, blood typing procedures, and the application of laboratory safety protocols.
Module Learning Outcomes	1- The student defines the anatomical planes of the human body and body cavities to accurately describe anatomical positions. 2- The student explains the fundamental principles of immunophysiology and the functional immune responses within the human body. 3- The student analyzes structural and histological changes in tissues and skin to differentiate between tissue types and evaluate the effects of environmental and forensic factors. 4- The student differentiates between the axial and appendicular skeletons, including the vertebral column, to identify individual biological characteristics. 5- The student utilizes practical anatomical skills and available plastic models to examine and identify various bones and nervous tissue. 6- The student applies concepts and techniques of Forensic Anthropology to identify human skeletal remains in forensic investigations. 7- The student performs blood typing procedures and laboratory tests to determine blood groups and their applications in forensic evidence. 8- The student works effectively within an integrated laboratory team when handling tissue samples and anatomical models while complying with safety protocols. 9- The student communicates clearly by writing scientific and laboratory reports to accurately present anatomical findings and forensic analyses. 10- The student adheres to ethical and professional standards when handling human specimens and skeletal remains during forensic and laboratory examinations.
Indicative Contents	1. Understanding and knowledge. 2. Creativity and scientific thinking. 3. The impact of physiology and anatomy on life. 4. The importance of anatomy as forensic evidence in crime analysis.

Learning and Teaching Strategies	
Strategies	1- The student acquired general skills through practical hours and the available plastic models. 2- Self-development through staying updated on the latest developments in the field of specialization and participating in training courses, lectures, and scientific seminars organized for this purpose. 4- Diversity in methods of explanation and presentation. 5- The method of delivering a lecture using PowerPoint and explanatory films related to the human body and its systems. 6- Organizing classroom and extracurricular activities to enhance knowledge and understanding. 7- Continuous discussion through asking questions and answers within the classroom and encouraging the student to engage in self-reflection, thus promoting self-learning, is a practical approach to enhance knowledge, understanding, and close observation of the practical aspect. 8- The use of innovative educational tools such as smart boards, projectors, films, and scientific images that bring the material closer to the students' minds.

Student Workload (SWL)			
الحمل الدراسي للطالب محسوب لـ ١٥ أسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	79	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	5
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	46	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	3
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	125		

Module Evaluation					
تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	6, 12	L# 1,2,3,4,5 & 6,7,8,9
	Assignments	1	10% (10)	14	10,11,12,13
	Lab.	2	10% (10)	Continuous	All
	Report	1	10%(10)	Continuous	All
Summative assessment	Midterm Exam	2 hr	10% (10)	17	All
	Final Exam	3hr	50% (50)	19	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
	Material Covered
Week 1	Introduction to Anatomy
Week 2	Cell physiology
Week 3	Body cavities
Week 4	Human body tissues and Tissue derivation.
Week 5	The Skin
Week 6	Quiz
Week 7	Skeletal System
Week 8	Division of the skeleton
Week 9	Anatomy of vertebral column
Week 10	Appendicular skeleton
Week 11	Nervous Tissues
Week 12	Quiz
Week 13	Forensic Anthropology
Week 14	Immunophysiology
Week 15	Mid Exam
Delivery Plan (Weekly Lab. Syllabus) المنهاج الاسبوعي المختبر	
	Material Covered
Week 1	Introduction To Anatomy
Week 2	Planes of human body
Week 3	Body cavities
Week 4	Anatomical studies
Week 5	Tissues
Week 6	Nervous Tissue
Week 7	A blood type
Week 8	Quiz
Week 9	Skeletal system
Week 10	Vertebral column
Week 11	Appendicular skeleton
Week 12	Forensic Anthropology
Week 13	Quiz
Week 14	Immunity
Week 15	Mid Exam

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	Available in the Library?
Required Texts	Anatomy and Physiology Lectures prepared by subject's teacher	NO
Websites		

Grading Scheme مخطط الدرجات				
Group	Grade	التقدير	Marks (%)	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 - 49)	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required
Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.				

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	Forensic DNA		Module Delivery
Module Type		☒ Theory ☒ Lecture ☒ Lab ☐ Tutorial ☐ Practical ☐ Seminar	
Module Code			
ECTS Credits	6		
SWL (hr/sem)	100		
Module Level	UGI	Semester of Delivery	One
Administering Department	FOR	College	College of science
Module Leader	Dr. Nawras Najah Mubark	e-mail	nawras@uowasit.edu.iq
Module Leader's Acad. Title	Asst.prof.Dr	Module Leader's Qualification	Ph.D.
Module Tutor	Not available	e-mail	Not available
Peer Reviewer Name	Not available	e-mail	Not available
Scientific Committee Approval Date	9/ 9 / 2024	Version Number	1.0

Relation with other Modules			
العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	None	Semester	
Co-requisites module	None	Semester	

Module Aims, Learning Outcomes and Indicative Contents	
Module Aims	It aims to provide the student with sufficient scientific and practical experience on how to detect, separate and analyze fluids and biological secrets and their important role in the crime scene. In addition to learning about the methods of extracting biological fluids from various sources and in various and advanced ways and with the latest technologies.
Module Learning Outcomes	1- The student learns about all the basic biological body fluids and secrets of the human body. 2- The student is able to identify the components of the body's biological fluids and their importance in the crime scene. 3- Identify the biological composition of the components of biological fluids inside the body and methods of extracting them. 4- The student learns about the methods of collecting samples of various biological fluids from various sources and studies the biochemical properties of body fluids and their physical properties. 5- The student is able to detect biological fluids from various sources in the body. 6- The student learns about the most important modern techniques and special devices used in separating biological fluids. 7- Identify the biochemical tests of various body fluids such as blood, saliva, spinal cord fluid, etc. to provide objective information at the crime scene.
Indicative Contents	1. Understanding and knowledge. 2. Creativity and scientific thinking. 3. Analysis of accident and crime scene data. 4. The importance of biology body fluid as criminal evidence. 5. Extraction methods.
Learning and Teaching Strategies	
Strategies	1-Collecting the crime evidences and biology body fluid samples and analyzing the results based on the laboratory test results. 2-Providing exam questions that are good assessment tools and help determine students' level of understanding of the material and the concepts on which it is based. 3-Focus on the practical aspect equally with the theoretical aspect. 4- Diversity in methods of explanation and presentation. 5-Holding seminars, scientific courses, and practical workshops to develop the scientific and practical aspects of students.

	6- Organizing classroom and extracurricular activities to enhance knowledge and understanding. 7- Organizing field trips to enhance knowledge and understanding and gain a closer look at the practical aspect.
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Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ أسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	100	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	6
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	75	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	2
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	175		

Module Evaluation تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	7, 12	L# 1,2,3,4,5 & 6,7,8,9
	Assignments	1	2	14	10,11,12,13
	Lab.	3	10% (10)	Continuous	All
	Report	1	10%(10)	Continuous	All
Summative assessment	Midterm Exam	2 hr	20% (10)	17	All
	Final Exam	3hr	50% (50)	19	All
Total assessment			100% (100 Marks)		
Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري					
	Material Covered				
Week 1	Introduction in blood and body fluid				
Week 2	Bile composed and liver enzymes				
Week 3	Brest milk composition				
Week 4	Cerebral spinal fluid				
Week 5	Digestive system secretion , Saliva , mucus				
Week 6	Amniotic fluid characteristic				
Week 7	Mucus secretion and nasal drainage				

Week 8	Peritoneal fluid
Week 9	Skin , sweating , gland
Week 10	Eyes , tears secretion
Week 11	Seminal fluid
Week 12	Urine analysis
Week 13	Vomiting
Week 14	Vaginal secretion
Week 15	Quiz
Week 16	Exam

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	Lab Safety
Week 2	Blood investigation and body fluid analysis
Week 3	Bile composed and liver enzymes investigation
Week 4	Breast secretion
Week 5	Determination the CSF component
Week 6	Investigation the secretion of digestive system , Saliva , mucus
Week 7	Amniotic fluid
Week 8	Mucus secretion and nasal drainage
Week 9	Peritoneal Fluid
Week 10	Skin , sweating gland
Week 11	Eyes , tears secretion
Week 12	Seminal Fluid
Week 13	Final Exam

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts		NO
Websites		

Grading Scheme

مخطط الدرجات

Group	Grade	التقدير	Marks (%)	Definition
Success	A - Excellent	امتياز	90 - 100	Outstanding Performance

Group (50 - 100)	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	Analytical Chemistry		Module Delivery
Module Type	B		☒ Theory ☒ Lecture ☒ Lab ☐ Tutorial ☐ Practical ☐ Seminar
Module Code	FOR24117		
ECTS Credits	7		
SWL (hr/sem)	175		
Module Level	UGI	Semester of Delivery	2
Administering Department	FOR	College	SCIENCE
Module Leader	Dr. Hussein F. AlRobaay		e-mail: Husseinf313@yahoo.com
Module Leader's Acad. Title	Assi. professor	Module Leader's Qualification	Ph.D
Module Tutor	Name (if available)	e-mail	e-mail
Peer Reviewer Name	Name	e-mail	e-mail
Scientific Committee Approval Date	4/2/2025	Version Number	1

Relation with other Modules			
العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	None	Semester	
Co-requisites module	None	Semester	

Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

Module Aims أهداف المادة الدراسية	The student learns about: - The importance of analytical chemistry and its types. - Methods of finding concentrations of chemicals and types of chemical titration. - The basic principles of quantitative and qualitative analysis methods in analytical chemistry.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	Learning outcomes of the study material Students will be able to: -1 Explain the basics of analytical chemistry and the steps of the distinctive analysis, in addition, express the role of analytical chemistry in science. -2 Compare qualitative and quantitative analyses through: A- Express quantitative analysis methods, B- Express qualitative analysis methods, C- Evaluate analytical data in terms of statistics. -3 Know acids and bases with their theories and explain their behaviors, despite studying their properties such as ionic equilibrium and buffer solutions. -4 Explain the volumetric analysis of solutions and express the weight calculations. -5 Expression of methods of analysis by titration, in addition, expresses terms such as standard solution, titration, back titration, equivalence point, endpoint, primary and secondary standard. -6= Be prepared to write the research by analyzing published research papers and writing a mini-research from them.
Indicative Contents المحتويات الإرشادية	Guided Contents include: -1 Scope of Analytical Chemistry: Science is constantly searching for improved means of measuring the chemical composition of natural and synthetic materials using techniques to identify the substances that may be present in a substance and to determine the exact amounts of the specified substance. -2 Quantitative Analysis: This topic includes explaining the technique that uses mathematical and statistical modeling and measurement and research to understand behavior, and how it will be useful to the student in his life. -3 Review of the important initial concept of analytical chemistry: strong and weak electrolytes; units of weight

	and important concentration, evaluation of analytical data: definition of terms. Introduction to gravimetric analysis: statistical analysis of data. Data rejection; precipitation methods, gravity factor. -4 Acids and bases: Explain the meaning of their concept and the available theories obtained to describe their behavior. -5 Chemical equilibrium: refers to the state of the system in which the concentration of the reactant and the concentration of the products do not change with time, and the system does not show any other change in properties. -5 Ionic equilibrium: The equilibrium that arises between the union molecules and ions in a solution of weak electrolytes is called ionic equilibrium. -5 Buffer solution: describes an acid or aqueous basic solution consisting of a mixture of a weak acid and its conjugate base, or vice versa. -5 Volumetric analysis is a widely used quantitative analytical method. As the name suggests, this method involves measuring the volume of a solution whose concentration is known and is applied to determine the concentration of the substance to be analyzed.
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Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	Lectures -2 Discussion -3 Brainstorming Problem Solving -4 Practical Presentations and Simulation Method -5 Laboratory Work (Practical in Computer Lab) -6 Self-Learning Projects -7 Collaborative Learning.

Student Workload (SWL) الحمل الدراسي للطلاب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطلاب خلال الفصل	96	Structured SWL (h/w) الحمل الدراسي المنتظم للطلاب أسبوعيا	6
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطلاب خلال الفصل	79	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطلاب أسبوعيا	5
Total SWL (h/sem)	175		

الحمل الدراسي الكلي للطلاب خلال الفصل	
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Module Evaluation					
تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	5, 10	LO #1, 2, 10 and 11
	Assignments	2	10% (10)	2, 12	LO # 3, 4, 6 and 7
	Projects / Lab.	1	10% (10)	Continuous	All
	Report	1	10% (10)	13	LO # 5, 8 and 10
Summative assessment	Midterm Exam	2 hr	10% (10)	7	LO # 1-7
	Final Exam	2hr	50% (50)	16	All
Total assessment			100%(100 Marks)		

Delivery Plan (Weekly Syllabus)	
المنهاج الاسبوعي النظري	
	Material Covered
Week 1	Introduction to Analytical Chemistry ,Definition, Scope and Classification
Week 2	Choice of method for an analysis • Steps in chemical analysis
Week 3	Solution preparation and concentration
Week 4	Solutions and Inter-Converting one concentration expression
Week 5	Statistical treatment of analytical data
Week 6	Exam 1
Week 7	Balancing chemical equations • Stoichiometric factors • Calculation using chemical equations
Week 8	Volumetric analysis: calculations Acids and bases
Week 9	Gravimetric analysis
Week 10	Titrimetric methods
Week 11	Example Titration curve
Week 12	Exam 2
Week 13	General review
Week 14	General review

Week 15	Review week
Week 16	

Delivery Plan (Weekly Lab. Syllabus) المنهاج الاسبوعي للمختبر	
	Material Covered
Week 1	General safety rules of Lab.
Week 2	General chemicals equip.
Week 3	Standard solutions
Week 4	Preparation of Standard solutions
Week 5	Titration strong acid with strong base
Week 6	PH –Metric titration
Week 7	Titration of strong acid with strong base

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	Available in the Library?
Required Texts	7th Edition of Analytical Chemistry Fundamentals of Analytical Chemistry Principles and Practice of Analytical Chemistry	Websites
Recommended Texts	Modern Analytical Chemistry.	Websites
Websites	https://tech.chemistrydocs.com/Books/Analytical/Analytical-Chemistry-by-Gary-D-Christian. pdf	

Grading Scheme

مخطط الدرجات				
Group	Grade	التقدير	Marks (%)	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required
Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.				

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information				
معلومات المادة الدراسية				
Module Title	biochemistry		Module Delivery	
Module Type	core		☒ Theory ☒ Lecture ☒ Lab ☐ Tutorial ☐ Practical ☐ Seminar	
Module Code	FOR23014			
ECTS Credits	5			
SWL (hr/sem)	125			
Module Level	UGI	Semester of Delivery		1
Administering Department	FOR	College	Science	
Module Leader	Hussein F. AL. Robaay		e-mail	Husseinf313@yahoo.com
Module Leader's Acad. Title	Assi. professor		Module Leader's Qualification	Ph.D
Module Tutor	Name (if available)		e-mail	e-mail
Peer Reviewer Name	Name		e-mail	e-mail
Scientific Committee Approval Date	9/9/2024		Version Number	1

Relation with other Modules			
العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	None	Semester	
Co-requisites module	None	Semester	

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Aims أهداف المادة الدراسية	Module Aims of this course deals with the basic concept of bio Chemistry; 1- Students know how to relate the position of metabolism. 2- Identify the major organelles of the cell and their function. 3- Identify the major organs of the body and their functions 4- Reproduce the structure of the cell at a schematic level 5- Hand in laboratory reports showing the data and conclusion drawn from the data. 6- The students are also given a test at the end of the semester testing their theory and practical knowledge of biochemistry they learned during the semester.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	benchmark and develop a student and discipline-association aligned and equity-centered learning outcomes for bio Chemistry. For the purposes of this work, we define learning outcomes as measurable student performance expectations based upon what the student learned in each core topic area.
Indicative Contents المحتويات الإرشادية	1- Classroom teaching of structures and properties of amino acids and laboratory experiments on titration curves and identification of functional groups 2- Traditional chalk and board teaching; learning properties of carbohydrates through laboratory based identification 3- Traditional teaching of structures of lipids and video presentation of membrane lipids: learning structure and function of lipids and membranes through discussion and power point presentations 4- Power point presentations; Chalk and board; Student interaction in class; Case studies with examples of each protein structural class

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. This will be achieved through classes, interactive tutorials and by considering type of simple experiments.

Student Workload (SWL)			
الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	79	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	5
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	46	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	3
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	125		

Module Evaluation					
تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	5, 10	LO #1, 2, 10 and 11
	Assignments	2	10% (10)	2, 12	LO # 3, 4, 6 and 7
	Projects / Lab.	1	10% (10)	Continuous	All
	Report	1	10% (10)	13	LO # 5, 8 and 10
Summative assessment	Midterm Exam	2 hr	10% (10)	7	LO # 1-7
	Final Exam	2hr	50% (50)	16	All
Total assessment			100%(100 Marks)		

Delivery Plan (Weekly Syllabus)	
المناهج الاسبوعي النظري	
	Material Covered
Week 1	Introduction I
Week 2	The Properties of Water
Week 3	CHEMISTRY OF CARBOHYDRATES 1
Week 4	Chemistry of Carbohydrates I1
Week 5	Chemistry of Amino Acids and Protein (I)
Week 6	Chemistry of Amino Acids and Protein (I1
Week 7	Exam

Week 8	Acids and bases
Week 9	Buffer Solutions
Week 10	exam
Week 11	Chemistry of Lipids
Week 12	Enzymes
Week 13	Vitamins and minerals
Week 14	exam
Week 15	Review week
Week 16	

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	General safety rules of Lab.
Week 2	spectrophotometry
Week 3	Determination of Ca Con.
Week 4	Determination of P Con.
Week 5	Determination of F Con.
Week 6	PH –Matric titration
Week 7	exam

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	Biochemistry-Campbell-Sixth-Edition.pdf	Websites
Recommended Texts	HARPER'S ILLUSTRATED BIOCHEMISTRY 30 th	Websites
Websites	Fundamentals of analytical chemistry by Stook and West 2012 on Websites	

Grading Scheme مخطط الدرجات				
Group	Grade	التقدير	Marks (%)	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required
Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.				

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	Crime of the Baath Regime in Iraq		Module Delivery
Module Type	Basic		☒ Theory ☐ Lecture ☐ Lab ☐ Tutorial ☐ Practical ☐ Seminar
Module Code	WUO5		
ECTS Credits	2		
SWL (hr/sem)	50		
Module Level	UGI 2	Semester of Delivery	Three
Administering Department	Forensic science	College	college of science
Module Leader	WAGNAA Razaq Abd	e-mail	wagna@uowasit.edu.iq
Module Leader's Acad. Title	Assit.prof	Module Leader's Qualification	Ph.D
Module Tutor	WAGNAA Razaq Abd	e-mail	E-mail wagna@uowasit.edu.iq
Peer Reviewer Name	Name	e-mail	E-mail
Scientific Committee Approval Date	01/06/2024	Version Number	1.0

Relation with other Modules			
العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	Che-111	Semester	One
Co-requisites module	None	Semester	

Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

Module Aims أهداف المادة الدراسية	1- Teaching students and increasing their awareness by learning about all types of crimes committed by the former regime's party and becoming familiar with all its topics in terms of identifying the concept of crimes and their types. 2- - Identifying the most prominent psychological and physical violations to which the Iraqi people were exposed 3- - Identifying the psychological and social effects of these crimes and providing the student with special knowledge and skills in defending these rights and demanding all their civil and political rights. 4- Providing the student with general knowledge about the basics of the former regime and all the crimes it committed against the Iraqi people of various components and sects, and establishing a conscious generation that rejects all types of injustice, tyranny, and tyranny, and the extent of its demands for all its rights.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1- The ability to collect and consolidate information 2- Receiving information correctly 3- The student can distinguish between the concept of crime linguistically, the concept of crime terminologically, and its concept in all other human sciences.

	4- The student's reception and acceptance of the subject 5- The student can distinguish between the types of Baath Party crimes
Indicative Contents المحتويات الإرشادية	Indicative content includes the following. -Methods of teaching and learning • Lectures • Using recitation, discussion and problem solving • Assignments -Evaluation • Daily and monthly exam • In-class exercises

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	Teaching and learning strategies and methods adopted in implementing the program in general. Interactive lectures between the professor and students, exchange of ideas, questions, and group discussions on all topics of Baath Party crimes. Daily and monthly tests. Research reports in order to increase students' ability to understand and understand the crimes of the Baath Party

Student Workload (SWL)			
الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	33	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	2
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	17	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	1.1
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	50		

Module Evaluation					
تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	20% (20)	5, 10	LO #1, 2, 10 and 11
	Assignments	2	10% (10)	2, 12	LO # 3, 4, 6 and 7
	Projects / Lab.	1	10% (10)	All	
	Report				
Summative assessment	Midterm Exam	2 hr	10% (10)	7	LO # 1-7
	Final Exam	2hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
المنهاج الأسبوعي النظري	
	Material Covered
Week 1	Introduction to the concept of crimes linguistically and terminologically

Week 2	Crime departments
Week 3	Baath Party crimes according to the Supreme Criminal Court Law
Week 4	Identify international crimes
Week 5	Learn about the decisions issued by the Supreme Criminal Court
Week 6	Identifying psychological crimes and their most prominent effects
Week 7	Identify the mechanisms of psychological crimes
Week 8	Identify social crimes
Week 9	The Baath Party's position on religion
Week 10	Militarizing society.
Week 11	Identify environmental crimes
Week 12	Identifying mass graves ✓
Week 13	Identifying military pollution and the leveling of orchards
Week 14	Preparatory week before the final Exam

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	Available in the Library?
Required Texts	Baath Party crimes approach	Yes
Recommended Texts	Archives of the Political Prisoners Foundation	
Websites		

Grading Scheme مخطط الدرجات				
Group	Grade	التقدير	Marks (%)	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required
Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.				

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information				
معلومات المادة الدراسية				
Module Title	Molecular biology		Module Delivery	
Module Type	C		☒ Theory ☒ Lecture ☒ Lab ☐ Tutorial ☐ Practical ☐ Seminar	
Module Code	FOR013			
ECTS Credits	5			
SWL (hr/sem)	175			
Module Level		UGI	Semester of Delivery	One
Administering Department		FOR	College	College of science
Module Leader	Dr. .Rafed Abbas Kadhum		e-mail	Rafedabbass@uowasit.edu.iq
Module Leader's Acad. Title		Asst.prof.Dr	Module Leader's Qualification	Ph.D.
Module Tutor	Not available		e-mail	Not available
Peer Reviewer Name		Not available	e-mail	Not available
Scientific Committee Approval Date		9/9/2024	Version Number	1.0

Relation with other Modules			
العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	Genetic	Semester	
Co-requisites module	Molecular biology	Semester	

Module Aims, Learning Outcomes and Indicative Contents

Module Aims	▪ To achieve a thorough understanding the structure and sequence content of both Prokaryotes and Eukaryotes. ▪ To understand the control of gene expression at multiple layers - from chromosomal context, to expression, to modifications of the product. ▪ To understand the most recent methodology in the field and the context in which they are used. In the associated tutorials, which is largely based around original research papers, the students should gain an appreciation of how scientific discoveries are made, and the general principles of scientific research. It will also allow students to follow in detail an investigation of the activity of a particular gene product using recombinant DNA technology. Students should gain a detailed understanding of the molecular biology which underlies the fundamental cellular processes of: ▪ The cytoskeleton in cellular structure, function and motility ▪ Mechanisms controlling cell proliferation and genome stability ▪ Protein processing in secretory pathway organelles ▪ Cell death programs in eukaryotic cells Students are expected to gain a clear appreciation of the principles that underpin current understanding of these processes and also of the experimental approaches by which these have been elucidated.
Module Learning Outcomes	Intended subject specific learning outcomes. On successfully completing the module students will be able to: Demonstrate a basic understanding of cell structure, organisation and division, cellular control by genetic material and the range of techniques used in investigating cell and molecular biology. Demonstrate a basic understanding of, and practical competence, in research methods in cell and molecular biology and of problem-solving in cell and molecular biology assessed by the multiple choice question format. Intended generic learning outcomes. On successfully completing the module students will have: Developed and demonstrated time management and organisational skills Developed skills at interpreting and retrieving information (knowledge management) and be able to demonstrate this in examinations Developed, and be able to apply, problem-solving skills Developed, and be able to demonstrate in examinations, written communication skills
Indicative Contents	1. Understanding 2. Knowledge

	3. Creativity and scientific thinking 4. The importance of molecular biology 5. Human genome
Learning and Teaching Strategies	
Strategies	Methods of molecular biology include: • X-ray diffraction and electron microscopy to understand the three-dimensional structure of biological macromolecules. • DNA replication, which involves making new DNA from existing DNA. • Transcription, where DNA is used to make new RNA. • Translation, which involves using RNA to make new proteins².

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ أسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	79	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	5
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	46	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	3
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	125		

Module Evaluation تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	7, 12	L# 1,2,3,4,5 & 6,7,8,9
	Assignments	1	2	14	10,11,12,13
	Lab.	3	10% (10)	Continuous	All
	Report	1	10%(10)	Continuous	All
Summative assessment	Midterm Exam	2 hr	20% (10)	17	All
	Final Exam	3hr	50% (50)	19	All
Total assessment			100% (100 Marks)		
Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري					
	Material Covered				
Week 1	Introduction and brief historical review				

Week 2	Experiments to prove DNA is the genetic material
Week 3	The second evidence using the virus (phage) model
Week 4	DNA and RNA as macromolecules: base structure and rules
Week 5	Eukaryotic and prokaryotic DNA
Week 6	Chemical and physical properties
Week 7	Haploid chromosome
Week 8	Chromatin organization and chromosome structure
Week 9	DNA replication
Week 10	DNA repair pathways
Week 11	RNA structure and function
Week 12	Quiz
Week 13	RNA Transcription and post-transcription event
Week 14	Translation and Epigenetics: portion synthesis
Week 15	Quiz
Week 16	Preparatory week before the final Exam
Delivery Plan (Weekly Lab. Syllabus) المنهاج الاسبوعي للمختبر	
	Material Covered
Week 1	Laboratory safety rules
Week 2	instruments and equipment in molecular & Preparation of buffers
Week 3	Ins DNA extraction
Week 4	Polymerase chain reaction & Gel electrophoresis
Week 5	Chromosomal DNA extraction from blood
Week 6	Chromosomal DNA extraction from teeth
Week 7	Exam
Week 8	Chromosomal DNA extraction from Saliva
Week 9	Chromosomal DNA extraction from Tissue
Week 10	Determine gender
Week 11	Mutations
Week 12	Real-time PCR
Week 13	Exam
Week 14	Seminars
Week 15	Final Exam
Learning and Teaching Resources مصادر التعلم والتدريس	
	Forensic biology Introduction of Molecular Biology Forensic DNA
	Available in the Library?

Required Texts		NO
Websites		

Grading Scheme مخطط الدرجات				
Group	Grade	التقدير	Marks (%)	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required
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MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	English Language	Module Delivery	
Module Type	C	☒ Theory ☒ Lecture ☐ Lab ☐ Tutorial ☐ Practical ☐ Seminar	
Module Code	FOR013		
ECTS Credits	5		
SWL (hr/sem)	175		
Module Level	UGI	Semester of Delivery	One
Administering Department	FOR	College	College of science
Module Leader	Hussein Najm Abd	e-mail	Husseinn109@uowasit.edu.iq
Module Leader's Acad. Title	Assistant Lecturer	Module Leader's Qualification	Master Degree
Module Tutor	Hussein Najm Abd	e-mail	Husseinn109@uowasit.edu.iq
Peer Reviewer Name	Not available	e-mail	Not available
Scientific Committee Approval Date	15/1/2025	Version Number	1.0

Relation with other Modules			
العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	None	Semester	
Co-requisites module	None	Semester	

Module Aims, Learning Outcomes and Indicative Contents

Module Aims	This module aims to develop students' English language proficiency in the context of forensic science, equipping them with the necessary skills to communicate effectively in academic, professional, and legal settings.
Module Learning Outcomes	By the end of this module, students will be able to: 1. Use Forensic Terminology Accurately • Define and apply key forensic science terms in written and spoken communication. • Differentiate between general English and technical forensic vocabulary. 2. Write Clear and Professional Forensic Reports • Construct well-organized crime scene reports, case analyses, and legal documents. • Use correct grammar, punctuation, and passive voice in forensic writing 3. Acquire Listening Skills • Comprehend and analyze forensic reports, witness statements, and expert testimonies. • Identify key details from audio recordings related to forensic investigations. 4. Speak and Communicate clearly • Communicate findings clearly and professionally in forensic interviews, discussions, and oral presentations. • Deliver effective courtroom testimony with appropriate vocabulary and grammar. 5. Understand Passages • Extract key information from forensic texts, case files, and legal documents. • Interpret and summarize complex forensic reports with clarity.
Indicative Contents	1. Forensic Terminology & Vocabulary 2. Grammar 3. Reading & Comprehension 4. Speaking & Communication 5. Forensic Report Writing 6. Listening

Learning and Teaching Strategies	
Strategies	1. Task-Based Learning. 2. Contextual Vocabulary Building. 3. Interactive Speaking Practice. 4. Peer Review and Collaborative Learning. 5. Grammar Application in Context 6. Brainstorming.

Student Workload (SWL) الحمل الدراسي للطلاب محسوب لـ ١٥ أسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطلاب خلال الفصل	79	Structured SWL (h/w) الحمل الدراسي المنتظم للطلاب أسبوعيا	5
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطلاب خلال الفصل	46	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطلاب أسبوعيا	3
Total SWL (h/sem) الحمل الدراسي الكلي للطلاب خلال الفصل	125		

Module Evaluation تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	7, 12	L# 1,2,3,4,5 & 6,7,8,9
	Assignments	1	2	14	10,11,12,13
	Lab.	3	10% (10)	Continuous	All
	Report	1	10%(10)	Continuous	All
Summative assessment	Midterm Exam	2 hr	20% (10)	17	All
	Final Exam	3hr	50% (50)	19	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
	Material Covered
Week 1	Overview of The Role of English Language in Forensic Science
Week 2	Sentence Structure: Simple, Compound, and Complex Sentences
Week 3	Crime Scene Descriptions: Writing Clear and Detailed Crime Scene Reports
Week 4	Verbs & Action in Criminal Investigations: Action Verbs, Passive vs. Active Voice

Week 5	Advanced Forensic Terminology
Week 6	Adjectives to Describe appearance: I am tall and thin
Week 7	Talking about Quantities: All my friends text
Week 8	Reading Crime Scene Reports
Week 9	Describing Health Problems: I have a sore throat
Week 10	Advanced Forensic Terminology
Week 11	Asking for Advice
Week 12	Quiz
Week 13	Crime Scene Descriptions: Writing Clear and Detailed Crime Scene Reports
Week 14	Reading Crime Scene Reports
Week 15	Quiz
Week 16	Preparatory week before the final Exam

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	Speak Now Level 2 (PDF)	No
Websites	https://www.merriam-webster.com/ https://www.oxfordreference.com/ https://www.scribd.com/ https://www.perfect-english-grammar.com/past-simple.html	

Grading Scheme

مخطط الدرجات

Group	Grade	التقدير	Marks (%)	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
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