

## MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية للمرحلة الأولى- قسم التقنية الاحيائية الصباحي والمسائي

الفصل الدراسي الاول

٢٠٢٣-٢٠٢٤

Module Information			
معلومات المادة الدراسية			
Module Title	Biostatics		Module Delivery
Module Type	Support		<input checked="" type="checkbox"/> Theory <input type="checkbox"/> Lecture Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	Biot-123		
ECTS Credits	6		
SWL (hr/sem)	125		
Module Level	1	Semester of Delivery	
Administering Department		College	
Module Leader		e-mail	
Module Leader's Acad. Title	Lecturer.	Module Leader's Qualification	
Module Tutor	Dr Radi T. Abd	e-mail	
Name (if available)	Name	e-mail	E-mail
Scientific Committee Approval Date	/ /2023	Version Number	1.0

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

Co-requisites module	None	Semester	
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### Module Aims, Learning Outcomes and Indicative Contents

#### أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

<b>Module Objectives</b> أهداف المادة الدراسية	Descriptive Statistics: Methods for collecting, organizing, analyzing and summarizing data Inferential Statistics: Methods that use results obtained from sample to derive conclusions about a population
<b>Module Learning Outcomes</b> مخرجات التعلم للمادة الدراسية	<ol style="list-style-type: none"> <li>1. Theoretical Statistics: Development, derivation and proof of theorems formulas, rules and laws.</li> <li>2. Applied Statistics: Applications of those theorems, formulas, rules and laws to solve real problems.</li> </ol>

### Learning and Teaching Strategies

#### استراتيجيات التعلم والتعليم

<b>Strategies</b>	In delivering a computer applications course, various learning and teaching strategies are adopted to enhance students' understanding and practical skills. Here are some common strategies: <ol style="list-style-type: none"> <li>1. Hands-on Practical Sessions:</li> <li>2. Project-Based Learning:.</li> <li>3. Demonstrations and Interactive Lectures:</li> <li>4. Collaborative Learning:</li> <li>5. Formative and Summative Assessments:</li> </ol>
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### Student Workload (SWL)

#### الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا

<b>Structured SWL (h/sem)</b> الحمل الدراسي المنتظم للطالب خلال الفصل	75	<b>Structured SWL (h/w)</b> الحمل الدراسي المنتظم للطالب أسبوعيا	5
<b>Unstructured SWL (h/sem)</b> الحمل الدراسي غير المنتظم للطالب خلال الفصل	50	<b>Unstructured SWL (h/w)</b> الحمل الدراسي غير المنتظم للطالب أسبوعيا	3.3
<b>Total SWL (h/sem)</b> الحمل الدراسي الكلي للطالب خلال الفصل	<b>125</b>		

## Module Evaluation

تقييم المادة الدراسية

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

## Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
Week 1	What is Statistics?
Week 2	Parameter vs. statistic
Week 3	DESCRIPTIVE DATA
Week 4	Quantitative raw data
Week 5	Organizing and Graphing Qualitative Data
Week 6	<b>Midterm exam</b>
Week 7	Frequency Distributions / Table
Week 8	Relative Frequency and Percentage Distributions
Week 9	Sample Spaces And Probability Concepts
Week 10	Sampling from Population
Week 11	Basic Probability Approaches (Classical probability Empirical or relative frequency probability Subjective probability)
Week 12	Discrete Random Variable
Week 13	Mean of a Discrete r.v

<b>Week 14</b>	Standard Deviation of a Discrete r.v.
<b>Week 15</b>	<b>final exam</b>

<b>Learning and Teaching Resources</b> مصادر التعلم والتدريس		
	<b>Text</b>	<b>Available in the Library?</b>
<b>Required Texts</b>	Computer basics represented by the difference between a computer and a human being, number, programs, memory size, and everything related to computer basics.	No
<b>Recommended Texts</b>	Apply to create the folder, change its name, show it, hide it, copy it, paste it, cut it, change the screen scroll, apply the right mouse commands, and everything related to basic computer basics in practice.	No
<b>Websites</b>		

<b>Grading Scheme</b> مخطط الدرجات				
Group	Grade	التقدير	Marks %	Definition
<b>Success Group (50 - 100)</b>	<b>A - Excellent</b>	امتياز	90 - 100	Outstanding Performance
	<b>B - Very Good</b>	جيد جدا	80 - 89	Above average with some errors
	<b>C - Good</b>	جيد	70 - 79	Sound work with notable errors
	<b>D - Satisfactory</b>	متوسط	60 - 69	Fair but with major shortcomings
	<b>E - Sufficient</b>	مقبول	50 - 59	Work meets minimum criteria
<b>Fail Group (0 - 49)</b>	<b>FX – Fail</b>	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	<b>F – Fail</b>	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	General chemistry		Module Delivery
Module Type	Basic		<input checked="" type="checkbox"/> Theory <input type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	Biot-122		
ECTS Credits	8		
SWL (hr/sem)	200		
Module Level	1	Semester of Delivery	
Administering Department	MPH	College	Applied sciences – Fallujah University
Module Leader	Maath Talib AL-Saab	e-mail	Maadsaab65@uofallujah.edu.iq
Module Leader's Acad. Title	Assistant professor	Module Leader's Qualification	Ph.D.
Module Tutor	Dr. Mohammed Hadi	e-mail	E-mail
Peer Reviewer Name	Name	e-mail	E-mail
Scientific Committee Approval Date	/ /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

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

<b>Module Objectives</b> أهداف المادة الدراسية	<ol style="list-style-type: none"><li>1. The analytical chemistry course is determined according to the study plan prepared in the Medical Physics Department.</li><li>2. The course aims to introduce the student to the general concepts of the organic compounds and their importance and uses in various fields.</li><li>3. It also aims at a detailed study of the different structural compositions and naming principles for the compounds of organic chemistry, by focusing on the compounds. And help the student to know the composition of these substances, including drugs, and to know how interactions occur and the mechanism of interaction.</li></ol>
<b>Module Learning Outcomes</b> مخرجات التعلم للمادة الدراسية	<ul style="list-style-type: none"><li>- The student should know the general concepts of the compounds of the analytical chemistry curriculum.</li><li>- That the student is acquainted with the basics and rules of naming, different structural structures and physical properties, and focuses on the same different rings for their vital activity, and recognizes their physical and chemical properties, and that the student distinguishes between the different structural structures.</li><li>- That the student knows the basic principles of preparation methods</li><li>- To familiarize the student with the different bases of their interactions.</li><li>- That the student is aware of the importance of these compounds and their applications.</li></ul>
<b>Indicative Contents</b> المحتويات الإرشادية	<p>a- Methods of teaching and learning</p> <ol style="list-style-type: none"><li>1- Giving lectures.</li><li>2- Using the method of recitation, discussion and solving questions.</li><li>3- Giving assignments to students to strengthen them and prepare them for the final and final exams.</li></ol> <p>b- Evaluation methods</p> <ol style="list-style-type: none"><li>1- Daily and monthly exams</li><li>2- Duties</li><li>3- In-class exercises</li></ol>

## Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

<b>Strategies</b>	<p>Type something like: 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 types</p>
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	of simple experiments involving some sampling activities that are interesting to the students.
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Student Workload (SWL)			
الحمل الدراسي للطلاب محسوب ل ١٥ اسبوعا			
<b>Structured SWL (h/sem)</b> الحمل الدراسي المنتظم للطلاب خلال الفصل	128	<b>Structured SWL (h/w)</b> الحمل الدراسي المنتظم للطلاب أسبوعيا	8.5
<b>Unstructured SWL (h/sem)</b> الحمل الدراسي غير المنتظم للطلاب خلال الفصل	72	<b>Unstructured SWL (h/w)</b> الحمل الدراسي غير المنتظم للطلاب أسبوعيا	4.8
<b>Total SWL (h/sem)</b> الحمل الدراسي الكلي للطلاب خلال الفصل	200		

Module Evaluation					
تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	5 and 10	LO #1, #2 and #10, #11
	Assignments	2	10% (10)	2 and 12	LO #3, #4 and #6, #7
	Projects / Lab.	1	10% (10)	Continuous	All
	Report	1	10% (10)	13	LO #5, #8 and #10
Summative assessment	Midterm Exam	١ hr	10% (10)	7	LO #1 - #7
	Final Exam	3hr	50% (50)	16	All
<b>Total assessment</b>			100% (100 Marks)		

## Delivery Plan (Weekly Syllabus)

### المنهاج الاسبوعي النظري

	Material Covered
Week 1	Material, atom structure, periodic table and bonds
Week 2	Solutions and their concentrations
Week 3	Statistical processing of analytical data
Week 4	Chemical equilibria
Week 5	Acid base theory, pH, puffer solutions
Week 6	Precipitation methods, Gravimetric calculations
Week 7	Methods of separation
Week 8	First exam
Week 9	Organic chemistry, Alkanes, Alkenes, Alkynes
Week 10	Alcohols, Properties, Reactions
Week 11	Aldehydes, Ketones, Properties, Reactions
Week 12	Carboxylic acids, Properties, Reactions
Week 13	Carboxylic acids, Properties, Reactions
Week 14	Aromatic compounds, Phenols
Week 15	Amines, Nitro compounds
Week 16	Second exam

## Delivery Plan (Weekly Lab. Syllabus)

### المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	Titration methods



Week 2	Solubility 1
Week 3	Solubility 2
Week 4	Extraction 1
Week 5	Extraction 2
Week 6	Chromatography methods 1
Week 7	Chromatography methods 2
Week8	Midterm exam
Week 9	Test Reducing Flame 1
Week 10	Test Reducing Flame 2
Week 11	Flame test 1
Week 12	Flame test 2
Week 13	Detection of halogens, nitrogen and sulfur1
Week 14	Detection of halogens, nitrogen and sulfur 2
	Final exam

### Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	Fundamentals of analytical chemistry. 9th Edition by <a href="#">Douglas A. Skoog</a> (Author), Organic Chemistry, 6th Edition 6th Edition by <a href="#">Robert T. Morrison</a> (Author), <a href="#">Robert N. Boyd</a> (Author)	Yes
Recommended Texts	ANALYTICAL CHEMISTRY: A Fundamental Approach To Modern Separation Techniques. by <a href="#">Stanley Chris (Ph.D)</a> (Author) August 15, 2022	No
Websites	<a href="https://www.amazon.com/Fundamentals-Analytical-Chemistry-Douglas-Skoog/dp/0357450396/ref=dp_sbs_vft_none_sccl_3_1/145-7711462-5419924?pd_rd_w=CSlfi&amp;content-id=amzn1.sym.3676f086-9496-4fd7-8490-77cf7f43f846&amp;pf_rd_p=3676f086-9496-4fd7-8490-">https://www.amazon.com/Fundamentals-Analytical-Chemistry-Douglas-Skoog/dp/0357450396/ref=dp_sbs_vft_none_sccl_3_1/145-7711462-5419924?pd_rd_w=CSlfi&amp;content-id=amzn1.sym.3676f086-9496-4fd7-8490-77cf7f43f846&amp;pf_rd_p=3676f086-9496-4fd7-8490-</a>	

[77cf7f43f846&pf\\_rd\\_r=7EZR6MGHA0J9A87C0JF0&pd\\_rd\\_wg=KzIqI&pd\\_rd\\_r=6cd67e00-88f2-4c85-8c5e-a2822ac1d629&pd\\_rd\\_i=0357450396&psc=1](https://www.ksars.gov.sa/77cf7f43f846&pf_rd_r=7EZR6MGHA0J9A87C0JF0&pd_rd_wg=KzIqI&pd_rd_r=6cd67e00-88f2-4c85-8c5e-a2822ac1d629&pd_rd_i=0357450396&psc=1)

## Grading Scheme

### مخطط الدرجات

Group	Grade	التقدير	Marks %	Definition
<b>Success Group</b> (50 - 100)	<b>A - Excellent</b>	امتياز	90 - 100	Outstanding Performance
	<b>B - Very Good</b>	جيد جدا	80 - 89	Above average with some errors
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# MODULE DESCRIPTION FORM

## نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	Computers		Module Delivery
Module Type	Support		<input type="checkbox"/> theory <input type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	SCI-101		
ECTS Credits	7		
SWL (hr/sem)	125		
Module Level	1	Semester of Delivery	
Administering Department		College	
Module Leader		e-mail	
Module Leader's Acad. Title	Lecturer.	Module Leader's Qualification	
Module Tutor	Dr. Alaa Sulaiman Al-Waisy	e-mail	<a href="mailto:alwaisyalaa@gmail.com">alwaisyalaa@gmail.com</a>
Name (if available)	Name	e-mail	E-mail
Scientific Committee Approval Date	/ /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

### أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

<p><b>Module Objectives</b></p> <p>أهداف المادة الدراسية</p>	<p>Initially, studying computer architecture focuses on understanding the design, organization, and operation of computer systems at the software and hardware level. The module objectives of studying computer architecture include:</p> <ol style="list-style-type: none"><li><b>1. Understanding the Basic Components:</b> Students will learn about the fundamental building blocks of a computer system, such as the central processing unit (CPU), memory, input/output (I/O) devices, and storage units.</li><li><b>2. Instruction Set Architecture (ISA):</b> Students will grasp the concepts of the ISA, which defines the set of instructions that a computer can execute. They will learn about different instruction formats, addressing modes, and the relationship between software and hardware.</li><li><b>3. Understanding the Core Operating System Services:</b> Students will learn about essential services provided by the Windows OS, such as process management, memory management, and file system operations.</li></ol> <p>On other hand, studying Microsoft Office, commonly referred to as Word Office, is essential for individuals who want to enhance their productivity and proficiency in various professional and academic tasks. The module objectives of studying Word Office typically include:</p> <ol style="list-style-type: none"><li><b>1. Word Processing Fundamentals:</b> Understanding the basic concepts of word processing, including creating, editing, and formatting text documents.</li><li><b>2. Document Creation and Editing:</b> Learning how to create new documents, import existing files, and edit them using various tools and features provided by Word Office.</li><li><b>3. Formatting and Styling:</b> Understanding how to format text, paragraphs, and documents to make them visually appealing and professional, including fonts, colors, alignment, and indentation.</li><li><b>4. Page Layout and Margins:</b> Learning how to set up page layout, adjust margins, and use headers and footers to customize document appearance.</li><li><b>5. Working with Tables:</b> Understanding how to create and manage tables, organize data, and apply different table styles and formats.</li><li><b>6. Graphics and Multimedia:</b> Learning to insert and manipulate images, shapes, and multimedia elements within the document.</li><li><b>7. Document Collaboration:</b> Understanding features like track changes, comments, and version control to collaborate with others on the same document.</li><li><b>8. Headers, Footers, and Page Numbers:</b> Learning how to add headers and footers to pages and insert page numbers with various formatting options.</li></ol>
<p><b>Module Learning Outcomes</b></p>	<p>The module learning outcomes of studying the computer's architecture and applications, such as Word Office include:</p> <ol style="list-style-type: none"><li><b>1. Describing the graphical user interface (GUI) and managing windows to interact with the operating system effectively.</b></li></ol>

<p>مخرجات التعلم للمادة الدراسية</p>	<ol style="list-style-type: none"> <li>2. Explaining the fundamental services provided by operating systems, such as process management, memory management, and file system operations.</li> <li>3. Capability of setting up file sharing, managing printers, and implementing access control for shared resources.</li> <li>4. Capability of using internet and web services, including web browsers and web-related features.</li> <li>5. Learning how to manage files, folders, and directories effectively in the Windows environment.</li> <li>6. Developing a high level of proficiency in using Microsoft Word for creating, editing, and formatting documents.</li> <li>7. Applying various text formatting options, such as font styles, sizes, colors, alignment, and emphasis.</li> <li>8. Formatting the overall document, including page layout, margins, headers, footers, and page numbering.</li> <li>9. Learning how to insert and format tables, as well as insert and manipulate graphics within the document.</li> <li>10. Understanding how to use spelling and grammar check tools and proofread documents for errors.</li> <li>11. Developing proficient keyboard and mouse skills for fast and efficient document editing.</li> </ol>
<p><b>Indicative Contents</b> المحتويات الإرشادية</p>	<p>The indicative contents of studying computer applications may vary depending on the specific course and its level of complexity. However, the following are some common indicative contents that can be covered in a computer applications course:</p> <ol style="list-style-type: none"> <li><b>1. Introduction to Computers and Operating Systems:</b> <ul style="list-style-type: none"> <li>✚ Computer basics and history.</li> <li>✚ Types of computers and their components.</li> <li>✚ Overview of operating systems and their functions.</li> </ul> </li> <li><b>2. Microsoft Office Suite:</b> <ul style="list-style-type: none"> <li>✚ Microsoft Word: Word processing, formatting, and document management.</li> <li>✚ Microsoft Excel: Spreadsheet creation, formulas, functions, and data analysis.</li> <li>✚ Microsoft PowerPoint: Creating presentations with multimedia elements.</li> </ul> </li> <li><b>3. Data Management and Manipulation:</b> <ul style="list-style-type: none"> <li>✚ Data entry and validation.</li> <li>✚ Sorting, filtering, and searching data.</li> <li>✚ Data analysis and visualization.</li> </ul> </li> <li><b>4. File Management and Storage:</b> <ul style="list-style-type: none"> <li>✚ Organizing files and folders.</li> <li>✚ Working with cloud storage and file sharing.</li> </ul> </li> <li><b>5. Internet and Web Applications:</b> <ul style="list-style-type: none"> <li>✚ Web browsing and search engines.</li> <li>✚ Email communication and management.</li> <li>✚ Online collaboration tools and cloud-based applications.</li> </ul> </li> </ol>

## Learning and Teaching Strategies

### استراتيجيات التعلم والتعليم

<b>Strategies</b>	<p>In delivering a computer applications course, various learning and teaching strategies are adopted to enhance students' understanding and practical skills. Here are some common strategies:</p> <ol style="list-style-type: none"> <li><b>6. Hands-on Practical Sessions:</b> Emphasis on hands-on practice allows students to interact directly with computer applications and software. Practical exercises, lab sessions, and projects enable them to apply theoretical knowledge to real-world scenarios.</li> <li><b>7. Project-Based Learning:</b> Assigning projects that simulate real-world challenges allows students to work collaboratively and develop problem-solving skills while creating tangible deliverables.</li> <li><b>8. Demonstrations and Interactive Lectures:</b> Instructors use live demonstrations and interactive lectures to illustrate how to use computer applications effectively and efficiently.</li> <li><b>9. Collaborative Learning:</b> Encouraging group activities, discussions, and team projects fosters teamwork and communication skills among students.</li> <li><b>10. Formative and Summative Assessments:</b> Regular formative assessments, such as quizzes and assignments, help students track their progress, while summative assessments, like exams and final projects, evaluate their overall performance.</li> </ol>
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## Student Workload (SWL)

### الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا

<b>Structured SWL (h/sem)</b> الحمل الدراسي المنتظم للطالب خلال الفصل	125	<b>Structured SWL (h/w)</b> الحمل الدراسي المنتظم للطالب أسبوعيا	8.3
<b>Unstructured SWL (h/sem)</b> الحمل الدراسي غير المنتظم للطالب خلال الفصل	50	<b>Unstructured SWL (h/w)</b> الحمل الدراسي غير المنتظم للطالب أسبوعيا	3.3
<b>Total SWL (h/sem)</b> الحمل الدراسي الكلي للطالب خلال الفصل	<b>175</b>		

## Module Evaluation

### تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	1	10% (10)	5 and 10	LO #1, #2 and #10, #11
	Assignments	-	10% (10)	2 and 12	LO #3, #4 and #6, #7
	Projects / Lab.	2	10% (10)	Continuous	All
	Report	-	10% (10)	13	LO #5, #8 and #10
Summative assessment	Midterm Exam	½ hr	10% (10)	7	LO #1 - #7
	Final Exam	½ hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

## Delivery Plan (Weekly Syllabus)

### المنهاج الاسبوعي النظري

	Material Covered
Week 1	What is a computer? Introduction to computer organization (main parts).
Week 2	Understanding the memory hierarchy and its impact on system performance
Week 3	Execute right mouse commands (copy, paste, cut, delete, and change folder name).
Week 4	Execute the right mouse button (the properties of the system icon, program icon, and folder icon)
Week 5	Create a new folder, then save it, change its name, shape, hide it, and show it)
Week 6	Show and hide the system icon (Control panel)
Week 7	Monthly Test.
Week 8	Learn the Word program, then ways to open the program Home tab and execute its commands

<b>Week 9</b>	Insert and Execute tab Insert a table, clip art, picture, shapes, text box, and symbols
<b>Week 10</b>	Page layout tabs such as paper margins, orientation, and size
<b>Week 11</b>	The Page Layout tab performs watermark, page borders, and color commands
<b>Week 12</b>	Executing and opening a file command such as saving the document and options for choosing the language of numbers and printing
<b>Week 13</b>	Completing a file command for the rest of it, such as opening a new one, sending it, and previewing it before printing
<b>Week 14</b>	review
<b>Week 15</b>	<b>Monthly Test.</b>

### Delivery Plan (Weekly Lab. Syllabus)

#### المنهاج الاسبوعي للمختبر

	<b>Material Covered</b>
<b>Week 1</b>	Lab 1: An application to create a folder, change its name, format and save it.
<b>Week 2</b>	Lab 2: Change wallpaper. Learn about system icons, hide them, and show them.
<b>Week 3</b>	Lab 3: Application of commands difference between delete and removal and the location of the use of each of them.
<b>Week 4</b>	Lab 4: Application right-click (system icon, program icon, folder icon properties)
<b>Week 5</b>	Lab 5: Use the (Control Panel) application to open and modify some programs such as time, date, deletion, and others
<b>Week 6</b>	Lab 6: The application opens the Home tab and performs its commands
<b>Week 7</b>	Lab 7: Insert and Execute tab application Insert a table, clip art, picture, shapes, text box, and symbols
<b>Week 8</b>	<b>Monthly Test.</b> Lab 8: Apply page layout tabs such as paper margins, orientation, and size
<b>Week 9</b>	Lab 9: The Page Layout tab applies watermark, page border, and color commands
<b>Week 10</b>	Lab 10 : Executing and opening a file command such as saving the document and options for choosing the language of numbers and printing



<b>Week 11</b>	Lab 11: A file command completion application for the rest of the command, such as opening a new command, submitting it, and previewing it before printing
<b>Week 12</b>	Lab 12: The application of inserting a table and adding data inside it. Lab 13: Complete the insert table application and add new rows and columns
<b>Week 13</b>	Lab 14: Complete the insert table application and the method for deleting rows and columns from within the table
<b>Week 14</b>	<b>Monthly Test.</b>

### Learning and Teaching Resources

#### مصادر التعلم والتدريس

	Text	Available in the Library?
<b>Required Texts</b>	Computer basics represented by the difference between a computer and a human being, number, programs, memory size, and everything related to computer basics.	No
<b>Recommended Texts</b>	Apply to create the folder, change its name, show it, hide it, copy it, paste it, cut it, change the screen scroll, apply the right mouse commands, and everything related to basic computer basics in practice.	No
<b>Websites</b>		

### Grading Scheme

#### مخطط الدرجات

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

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**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	<b>Biophysics</b>		Module Delivery
Module Type	<b>Basic</b>		Theory
Module Code	Biot-112		<input checked="" type="checkbox"/> Lecture
ECTS Credits	<b>8</b>		<input checked="" type="checkbox"/> Lab
SWL (hr/sem)	<b>200</b>		<input type="checkbox"/> Tutorial
			<input type="checkbox"/> Practical
			<input type="checkbox"/> Seminar
Module Level	1	Semester of Delivery	1
Administering Department	MPH	College	College of Applied Sciences – Fallujah
Module Leader	Dr. Assad A. dahy	e-mail	Physicshamid2020@gmail.com
Module Leader's Acad. Title	Lect.	Module Leader's Qualification	Ph.D.
Module Tutor	Name (if available)	e-mail	E-mail
Peer Reviewer Name	Asst. Prof. Dr. Batool Eneaze	e-mail	<a href="mailto:batoolen@uofallujah.edu.iq">batoolen@uofallujah.edu.iq</a>
Scientific Committee Approval Date	/ /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

### أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

<p><b>Module Objectives</b></p> <p>أهداف المادة الدراسية</p>	<ol style="list-style-type: none"><li>1. This course deals with the basic concept of physics to understand the relation of physics with biology.</li><li>2. To develop problem solving skills that dealing with the work of medical devices.</li><li>3. To understand how the principles of physics are applied within the human body.</li><li>4. Develop a physical explanation of biological processes.</li><li>5. Clarifying the relationship between what happens outside and inside the human body.</li></ol>
<p><b>Module Learning Outcomes</b></p> <p>مخرجات التعلم للمادة الدراسية</p>	<ol style="list-style-type: none"><li>1. Explain the meaning of biophysics and biophysicists.</li><li>2. Explain the Mechanical properties of Biological Objects</li><li>3. Summarize what is meant by diffusion.</li><li>4. Discuss the four major biomolecules of nature.</li><li>5. Describe energy absorbance by molecules.</li><li>6. Define electromagnetic radiation and its types.</li><li>7. Discuss the effect of radiation on molecules inside body.</li><li>8. Discuss Fluid Dynamics and Medical application of Bernoulli's equation.</li><li>9. Discuss the examples of Energy interactions with human body.</li><li>10. Define Bioacoustics and Echolocation effect.</li><li>11. Show mechanisms of Diffusion and directed transport.</li><li>12. Discuss the electrical properties of biomembranes.</li><li>13. Explain the Photobiology.</li></ol>
<p><b>Indicative Contents</b></p> <p>المحتويات الإرشادية</p>	<p><u>Part A – Introduction of Biophysics</u></p>

	<p>What is BIOPHYSICS?- IMPORTANCE OF BIOPHYSICS.- What Do Biophysicists Do?- CONCEPT OF UNIT - Fundamental and derived units - SYSTEMS OF UNITS – Physical Quantities- Atomic Structure - Bonding between atoms - The hierarchy of living things [15 hrs]</p> <p>Proteins– Carbohydrates – Carbohydrates - Nucleic acids- Energy absorbance by molecules- Molecular transduction of energy. [15 hrs]</p> <p>Electromagnetic Radiation – Effect of EMR on human body- definition of ionizing and nonionizing radiation - free radicals - Examples of Energy interactions with human body. [10 hrs]</p> <p>Examples of Energy interactions with human body - ACTIVE TRANSPORT- Antiport, symport - Comparing Facilitated Diffusion and Active Transport – OSMOSIS - Basic principle of an osmometer - Electro-chemical potential - Extracellular Fluid – Waves and Sound . [15 hrs]</p>
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### Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

<b>Strategies</b>	<p>Type something like: 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 types of simple experiments involving some sampling activities that are interesting to the students.</p>
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### Student Workload (SWL)

الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا

<b>Structured SWL (h/sem)</b> الحمل الدراسي المنتظم للطالب خلال الفصل	<b>128</b>	<b>Structured SWL (h/w)</b> الحمل الدراسي المنتظم للطالب أسبوعيا	<b>8.5</b>
<b>Unstructured SWL (h/sem)</b> الحمل الدراسي غير المنتظم للطالب خلال الفصل	<b>72</b>	<b>Unstructured SWL (h/w)</b> الحمل الدراسي غير المنتظم للطالب أسبوعيا	<b>4.8</b>
<b>Total SWL (h/sem)</b> الحمل الدراسي الكلي للطالب خلال الفصل	<b>200</b>		

**Module Evaluation**

تقييم المادة الدراسية

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

**Delivery Plan (Weekly Syllabus)**

المنهاج الاسبوعي النظري

	Material Covered
<b>Week 1</b>	Introduction of Biophysics.

<b>Week 2</b>	Mechanical properties of Biological Objects
<b>Week 3</b>	Biomaterials and its applications
<b>Week 4</b>	Load bearing in biology
<b>Week 5</b>	Energy Interactions with human body
<b>Week 6</b>	Mechanobiology and effect of mechanical factors on living organism
<b>Week 7</b>	Fluid and gas mechanics
<b>Week 8</b>	Fluid Dynamics and Medical application of Bernoulli's equation
<b>Week 9</b>	Bioacoustics and Echolocation effect
<b>Week 10</b>	Thermodynamics
<b>Week 11</b>	Heat exchange and Thermal Conductivity
<b>Week 12</b>	Photobiology
<b>Week 13</b>	Diffusion and directed transport
<b>Week 14</b>	Cellular membranes
<b>Week 15</b>	Electrical excitability of cell membranes
<b>Week 16</b>	Preparatory week before the final Exam

### Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

	Material Covered
<b>Week 1</b>	Lab 1: Measurements of Body Mass Index (BMI)
<b>Week 2</b>	Lab 2: Measure a blood pressure using mercury sphygmomanometer
<b>Week 3</b>	Lab 3: Measure of blood mass in the body
<b>Week 4</b>	Lab 4: Determination of the energy content of food by combustion
<b>Week 5</b>	Lab 5: Stress level and HRV stress
<b>Week 6</b>	Lab 6: investigation of Archimedes principle

Week 7	Mid exam
Week 8	Lab 8: Measurement of liquid density1
Week 9	Lab 9: Measurement of liquid density2
Week 10	Lab 10: Measurement of liquid density 3
Week 11	Lab 11: Speed of sound. 1
Week 12	Lab 12: Speed of sound.2
Week 13	Lab 13: Determination of frequency of tuning fork. 1
Week 14	Lab 14: Determination of frequency of tuning fork. 2
Week 15	Final exam

### Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	Stanley J. Kays “ Physics with Fundamentals of Biophysics” , second Edition	Yes
Recommended Texts		
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



<b>Fail Group</b>	<b>FX – Fail</b>	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
<b>(0 – 49)</b>	<b>F – Fail</b>	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	<b>Arabic</b>		Module Delivery
Module Type	S		<input checked="" type="checkbox"/> Theory Lecture Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	<b>UOF-103</b>		
ECTS Credits	3		
SWL (hr/sem)	<b>75</b>		
Module Level	1	Semester of Delivery	
Administering Department	BSc-Biot.	College	Type College Code
Module Leader	Amir M.M. Ali	e-mail	
Module Leader's Acad. Title	Assistant Professor	Module Leader's Qualification	MSc
Module Tutor	Name (if available)	e-mail	E-mail
Peer Reviewer Name		e-mail	
Scientific Committee Approval Date		Version Number	

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	

<p><b>Module Objectives</b></p> <p>أهداف المادة الدراسية</p>	<p>Teaching students writing skills at the level of spelling, grammar and morphology, as well as teaching students the method of analyzing the literary text by referring to significant literary texts.</p>
<p><b>Module Learning Outcomes</b></p> <p>مخرجات التعلم للمادة الدراسية</p>	<p>Outcome 1</p> <p>Identification of Complex Relationships</p> <p>Graduates will be able to illustrate the structure and function of cellular components and explain how they interact in a living cell.</p> <p>Outcome 2</p> <p>Oral and Written Communication</p> <p>Graduates will be able to formally communicate the results of biological investigations using both oral and written communication skills.</p> <p>Outcome 3</p> <p>Laboratory and Field Studies</p> <p>Graduates will be able to perform laboratory experiments and field studies, by using scientific equipment and computer technology while observing appropriate safety protocols.</p> <p>Outcome 4</p> <p>Scientific Knowledge</p> <p>Graduates will be able to demonstrate a balanced concept of how scientific knowledge develops, including the historical development of foundational theories and laws and the nature of science.</p> <p>Outcome 5</p> <p>Data Analyses</p> <p>Graduates will be able to demonstrate scientific quantitative skills, such as the ability to conduct simple data analyses.</p> <p>Outcome 6</p> <p>Critical Thinking</p> <p>Graduates will be able to use critical-thinking and problem-solving skills to develop a research project and/or paper</p>
<p><b>Indicative Contents</b></p> <p>المحتويات الإرشادية</p>	<p>In congruence with the teaching and learning strategy of the college, the following tools are used:</p> <ol style="list-style-type: none"> <li>I. Class lectures, interactive learning (class discussions, group work) video presentations, and practical problems solved in class.</li> <li>II. Exercises and primary source documents are assigned as homework, the solutions of which are reviewed in class</li> </ol>

	<p>III. Laboratory work (some laboratory reports and drawings may be required).</p> <p>IV. CD-ROMS (The Dynamic Human, Explorations in Human Biology. Virtual Biology Laboratory, Explorations in Cell Biology &amp; Genetics).</p> <p>V. Office hours: students are encouraged to make full use of the office hours of their instructor, where they can ask questions, see their exam paper, and/or go over lecture/lab material.</p> <p>VI. Use of a blackboard site, where instructors post lecture notes, assignment instructions, timely announcements, as well as additional resources</p>
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### Learning and Teaching Strategies

#### استراتيجيات التعلم والتعليم

<b>Strategies</b>	<p>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 types of simple experiments involving some sampling activities that are interesting to the students.</p>
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### Student Workload (SWL)

#### الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا

<b>Structured SWL (h/sem)</b> الحمل الدراسي المنتظم للطالب خلال الفصل	53	<b>Structured SWL (h/w)</b> الحمل الدراسي المنتظم للطالب أسبوعيا	3.5
<b>Unstructured SWL (h/sem)</b> الحمل الدراسي غير المنتظم للطالب خلال الفصل	22	<b>Unstructured SWL (h/w)</b> الحمل الدراسي غير المنتظم للطالب أسبوعيا	1.46
<b>Total SWL (h/sem)</b> الحمل الدراسي الكلي للطالب خلال الفصل	<b>75</b>		

### Module Evaluation

#### تقييم المادة الدراسية

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

### Delivery Plan (Weekly Syllabus)

#### المنهاج الاسبوعي النظري

	Material Covered
Week 1	الجملة الأسميه (المبتدأ و الخبر)
Week 2	الأسماء المعربه بالحروف
Week 3	النواسخ أن و اخواتها
Week 4	كان و اخواتها
Week 5	الجملة الفعلية (الأفعال الخمسه)
Week 6	الفاعل ونائب الفاعل
Week 7	المفاعيل / مفعول به
Week 8	امتحان نصفي
Week 9	مفعول لأجله / ومعه / ومطلق
Week 10	التفسير البياني لبعض من سورة الكهف
Week 11	معاني القرآن في سور متفرقه
Week 12	الشعر الجاهلي، امرؤ القيس نموذجاً

Week 13	الشعر الحر، بدر شاكر السياب
Week 14	تطبيقات عملية / للمعارف
Week 15	امتحان نهائي

Learning and Teaching Resources		
مصادر التعلم والتدريس		
	Text	Available in the Library?
Required Texts		No
Recommended Texts		
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	<b>Biology</b>		Module Delivery
Module Type	Core		Theory <input checked="" type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	<b>Biot -121</b>		
ECTS Credits	8		
SWL (hr/sem)	<b>200</b>		
Module Level	1	Semester of Delivery	
Administering Department	Type Dept. code	College	Type College Code
Module Leader	Dr. Ahmed M. Ibrahim		e-mail
Module Leader's Acad. Title		Module Leader's Qualification	Ph.D.
Module Tutor	Name (if available)		e-mail
Peer Reviewer Name	Assist. Prof.Dr.Maysam Naji Ahmed		E-mail
Scientific Committee Approval Date		Version Number	
			E-mail Maysam_naji@uofallujah.edu.iq

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
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أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

<p><b>Module Objectives</b></p> <p>أهداف المادة الدراسية</p>	<ol style="list-style-type: none"> <li>1. Describe levels of organization and related functions in plants and animals.</li> <li>2. Identify the characteristics and basic needs of living organisms and ecosystems.</li> <li>3. Explain the processes of growth and development in individuals and populations.</li> <li>4. Design and critically assess the scientific investigations they perform.</li> <li>5. Demonstrate critical thinking skills.</li> </ol>
<p><b>Module Learning Outcomes</b></p> <p>مخرجات التعلم للمادة الدراسية</p>	<p>Outcome 1</p> <p>Identification of Complex Relationships</p> <p>Graduates will be able to illustrate the structure and function of cellular components and explain how they interact in a living cell.</p> <p>Outcome 2</p> <p>Oral and Written Communication</p> <p>Graduates will be able to formally communicate the results of biological investigations using both oral and written communication skills.</p> <p>Outcome 3</p> <p>Laboratory and Field Studies</p> <p>Graduates will be able to perform laboratory experiments and field studies, by using scientific equipment and computer technology while observing appropriate safety protocols.</p> <p>Outcome 4</p> <p>Scientific Knowledge</p> <p>Graduates will be able to demonstrate a balanced concept of how scientific knowledge develops, including the historical development of foundational theories and laws and the nature of science.</p> <p>Outcome 5</p> <p>Data Analyses</p> <p>Graduates will be able to demonstrate scientific quantitative skills, such as the ability to conduct simple data analyses.</p> <p>Outcome 6</p> <p>Critical Thinking</p> <p>Graduates will be able to use critical-thinking and problem-solving skills to develop a research project and/or paper.</p>
<p><b>Indicative Contents</b></p>	<p>In congruence with the teaching and learning strategy of the college, the following</p>



المحتويات الإرشادية	<p>tools are used:</p> <p>VII. Class lectures, interactive learning (class discussions, group work) video presentations, and practical problems solved in class.</p> <p>VIII. Exercises and primary source documents are assigned as homework, the solutions of which are reviewed in class</p> <p>IX. Laboratory work (some laboratory reports and drawings may be required).</p> <p>X. CD-ROMS (The Dynamic Human, Explorations in Human Biology. Virtual Biology Laboratory, Explorations in Cell Biology &amp; Genetics).</p> <p>XI. Office hours: students are encouraged to make full use of the office hours of their instructor, where they can ask questions, see their exam paper, and/or go over lecture/lab material.</p> <p>XII. Use of a blackboard site, where instructors post lecture notes, assignment instructions, timely announcements, as well as additional resources.</p>
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### Learning and Teaching Strategies

#### استراتيجيات التعلم والتعليم

<b>Strategies</b>	<p>Type something like: 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 types of simple experiments involving some sampling activities that are interesting to the students.</p>
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### Student Workload (SWL)

#### الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا

<b>Structured SWL (h/sem)</b> الحمل الدراسي المنتظم للطالب خلال الفصل	153	<b>Structured SWL (h/w)</b> الحمل الدراسي المنتظم للطالب أسبوعيا	10.2
<b>Unstructured SWL (h/sem)</b> الحمل الدراسي غير المنتظم للطالب خلال الفصل	47	<b>Unstructured SWL (h/w)</b> الحمل الدراسي غير المنتظم للطالب أسبوعيا	3.13
<b>Total SWL (h/sem)</b> الحمل الدراسي الكلي للطالب خلال الفصل	<b>200</b>		

## Module Evaluation

### تقييم المادة الدراسية

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

## Delivery Plan (Weekly Syllabus)

### المنهاج الاسبوعي النظري

	Material Covered
<b>Week 1</b>	Definition and Introduction to biology. - Types of microscopy. - The cell and classification of kingdom. -The cell theory, Cellular size, Cellular evolution and cell types.
<b>Week 2</b>	The Cell Structure and Function. - Prokaryotic cell. - Eukaryotic cells. -Animal Cell and Plant Cell - Comparison between Animal cell and Plant cell
<b>Week 3</b>	Structures in Animal Cell and Plant Cell

	<ul style="list-style-type: none"> <li>-cell organelles.</li> <li>-structure .</li> <li>-function.</li> </ul>
<b>Week 4</b>	<p>Membranes and transport ( membrane structure and function(</p> <ul style="list-style-type: none"> <li>- Animal and plant cell border</li> <li>- passive transport processes</li> <li>-active transport processes.</li> </ul>
<b>Week 5</b>	<p>Energy-releasing pathways (Cellular respiration)</p> <ul style="list-style-type: none"> <li>-Glycolysis</li> <li>-Krebs cycle</li> <li>- Oxidation</li> <li>-Electron transport chain</li> <li>-Fermentation</li> </ul>
<b>Week 6</b>	Midterm exam
<b>Week 7</b>	<p>Photosynthesis</p> <ul style="list-style-type: none"> <li>-photosynthetic organisms.</li> <li>- Site of photosynthesis</li> <li>-Factors, Equation, Structure</li> <li>-Process</li> <li>-Importance</li> </ul>
<b>Week 8</b>	<p>Transpiration</p> <ul style="list-style-type: none"> <li>-Types</li> <li>-Factors</li> <li>-Significant.</li> </ul>
<b>Week 9</b>	Genetic basis of life

	<ul style="list-style-type: none"> <li>-The cell cycle</li> <li>-The Eukaryotic Chromosomes</li> <li>-Prokaryotic cell division</li> </ul>
<b>Week 10</b>	<p>Mitosis</p> <ul style="list-style-type: none"> <li>- Mitosis and cytokinesis.</li> <li>- Cytokinesis in plant</li> </ul>
<b>Week 11</b>	Sexual Reproduction in the Flowering Plant
<b>Week 12</b>	<p>Meiosis and reproduction</p> <ul style="list-style-type: none"> <li>- Meiosis I</li> <li>-Meiosis II</li> <li>- Spermatogenesis</li> <li>- Oogenesis</li> </ul>
<b>Week 13</b>	<p>Evolution</p> <ul style="list-style-type: none"> <li>- Source of variation</li> <li>- The evolutionary history of biological diversity</li> <li>- An Overview of Plant Diversity</li> <li>-An Overview of Animal</li> <li>-Phylogenetic tree</li> </ul>
<b>Week 14</b>	Ecosystem and Relationships between Organisms
<b>Week 15</b>	Preparatory week before the final Exam
<b>Week 16</b>	<b>FINAL EXAM</b>

### Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

	<b>Material Covered</b>
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<b>Week 1</b>	Kingdoms Types of Cell
<b>Week 2</b>	Cell Components
<b>Week 3</b>	Cell membrane and transport
<b>Week 4</b>	Preparation of slide which contain cells
<b>Week 5</b>	Cell division
<b>Week 6</b>	Necrosis and apoptosis
<b>Week 7</b>	Inflammation and Organelles Diseases

### Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
<b>Required Texts</b>	Mader: Human Biology	Yes
<b>Recommended Texts</b>	Campbell Biology Textbook, 11th Edition	No
<b>Websites</b>		

### Grading Scheme

مخطط الدرجات

Group	Grade	التقدير	Marks %	Definition
<b>Success Group (50 - 100)</b>	<b>A – Excellent</b>	امتياز	90 - 100	Outstanding Performance
	<b>B - Very Good</b>	جيد جدا	80 - 89	Above average with some errors
	<b>C – Good</b>	جيد	70 - 79	Sound work with notable errors
	<b>D - Satisfactory</b>	متوسط	60 - 69	Fair but with major shortcomings
	<b>E – Sufficient</b>	مقبول	50 - 59	Work meets minimum criteria
<b>Fail Group (0 – 49)</b>	<b>FX – Fail</b>	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	<b>F – Fail</b>	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	<b>Biology</b>		Module Delivery
Module Type	Core		Theory <input checked="" type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	<b>Biot -121</b>		
ECTS Credits	8		
SWL (hr/sem)	<b>200</b>		
Module Level	1	Semester of Delivery	
Administering Department	Type Dept. code	College	Type College Code
Module Leader	Dr. Ahmed M. Ibrahim		e-mail
Module Leader's Acad. Title		Module Leader's Qualification	Ph.D.
Module Tutor	Name (if available)		e-mail
Peer Reviewer Name	Assist. Prof.Dr.Maysam Naji Ahmed		E-mail
Scientific Committee Approval Date		Version Number	

### Relation with other Modules

العلاقة مع المواد الدراسية الأخرى

<b>Prerequisite module</b>	None	<b>Semester</b>	
<b>Co-requisites module</b>	None	<b>Semester</b>	

### Module Aims, Learning Outcomes and Indicative Contents

#### أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

<p><b>Module Objectives</b></p> <p>أهداف المادة الدراسية</p>	<ol style="list-style-type: none"> <li>6. Describe levels of organization and related functions in plants and animals.</li> <li>7. Identify the characteristics and basic needs of living organisms and ecosystems.</li> <li>8. Explain the processes of growth and development in individuals and populations.</li> <li>9. Design and critically assess the scientific investigations they perform.</li> <li>10. Demonstrate critical thinking skills.</li> </ol>
<p><b>Module Learning Outcomes</b></p> <p>مخرجات التعلم للمادة الدراسية</p>	<p>Outcome 1</p> <p>Identification of Complex Relationships</p> <p>Graduates will be able to illustrate the structure and function of cellular components and explain how they interact in a living cell.</p> <p>Outcome 2</p> <p>Oral and Written Communication</p> <p>Graduates will be able to formally communicate the results of biological investigations using both oral and written communication skills.</p> <p>Outcome 3</p> <p>Laboratory and Field Studies</p> <p>Graduates will be able to perform laboratory experiments and field studies, by using scientific equipment and computer technology while observing appropriate safety protocols.</p> <p>Outcome 4</p> <p>Scientific Knowledge</p> <p>Graduates will be able to demonstrate a balanced concept of how scientific knowledge develops, including the historical development of foundational theories and laws and the nature of science.</p> <p>Outcome 5</p> <p>Data Analyses</p> <p>Graduates will be able to demonstrate scientific quantitative skills, such as the ability to conduct simple data analyses.</p> <p>Outcome 6</p>

	<p>Critical Thinking</p> <p>Graduates will be able to use critical-thinking and problem-solving skills to develop a research project and/or paper.</p>
<p><b>Indicative Contents</b></p> <p>المحتويات الإرشادية</p>	<p>In congruence with the teaching and learning strategy of the college, the following tools are used:</p> <p>XIII. Class lectures, interactive learning (class discussions, group work) video presentations, and practical problems solved in class.</p> <p>XIV. Exercises and primary source documents are assigned as homework, the solutions of which are reviewed in class</p> <p>XV. Laboratory work (some laboratory reports and drawings may be required).</p> <p>XVI. CD-ROMS (The Dynamic Human, Explorations in Human Biology. Virtual Biology Laboratory, Explorations in Cell Biology &amp; Genetics).</p> <p>XVII. Office hours: students are encouraged to make full use of the office hours of their instructor, where they can ask questions, see their exam paper, and/or go over lecture/lab material.</p> <p>XVIII. Use of a blackboard site, where instructors post lecture notes, assignment instructions, timely announcements, as well as additional resources.</p>

<p><b>Learning and Teaching Strategies</b></p> <p>استراتيجيات التعلم والتعليم</p>	
<p><b>Strategies</b></p>	<p>Type something like: 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 types of simple experiments involving some sampling activities that are interesting to the students.</p>

<p><b>Student Workload (SWL)</b></p> <p>الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا</p>			
<p><b>Structured SWL (h/sem)</b></p> <p>الحمل الدراسي المنتظم للطالب خلال الفصل</p>	<p>153</p>	<p><b>Structured SWL (h/w)</b></p> <p>الحمل الدراسي المنتظم للطالب أسبوعيا</p>	<p>10.2</p>
<p><b>Unstructured SWL (h/sem)</b></p>	<p>47</p>	<p><b>Unstructured SWL (h/w)</b></p>	<p>3.13</p>



الحمل الدراسي غير المنتظم للطلاب خلال الفصل		الحمل الدراسي غير المنتظم للطلاب أسبوعيا	
<b>Total SWL (h/sem)</b>	<b>200</b>		
الحمل الدراسي الكلي للطلاب خلال الفصل			

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

<b>Delivery Plan (Weekly Syllabus)</b>	
المنهاج الاسبوعي النظري	
	Material Covered
<b>Week 1</b>	Definition and Introduction to biology. - Types of microscopy. - The cell and classification of kingdom. -The cell theory, Cellular size, Cellular evolution and cell types.
<b>Week 2</b>	The Cell Structure and Function. - Prokaryotic cell.

	<ul style="list-style-type: none"> <li>- Eukaryotic cells.</li> <li>-Animal Cell and Plant Cell</li> <li>- Comparison between Animal cell and Plant cell</li> </ul>
<b>Week 3</b>	<p>Structures in Animal Cell and Plant Cell</p> <ul style="list-style-type: none"> <li>-cell organelles.</li> <li>-structure .</li> <li>-function.</li> </ul>
<b>Week 4</b>	<p>Membranes and transport ( membrane structure and function(</p> <ul style="list-style-type: none"> <li>- Animal and plant cell border</li> <li>- passive transport processes</li> <li>-active transport processes.</li> </ul>
<b>Week 5</b>	<p>Energy-releasing pathways (Cellular respiration)</p> <ul style="list-style-type: none"> <li>-Glycolysis</li> <li>-Krebs cycle</li> <li>- Oxidation</li> <li>-Electron transport chain</li> <li>-Fermentation</li> </ul>
<b>Week 6</b>	Midterm exam
<b>Week 7</b>	<p>Photosynthesis</p> <ul style="list-style-type: none"> <li>-photosynthetic organisms.</li> <li>- Site of photosynthesis</li> <li>-Factors, Equation, Structure</li> <li>-Process</li> <li>-Importance</li> </ul>
<b>Week 8</b>	Transpiration

	<ul style="list-style-type: none"> <li>-Types</li> <li>-Factors</li> <li>-Significant.</li> </ul>
<b>Week 9</b>	<p>Genetic basis of life</p> <ul style="list-style-type: none"> <li>-The cell cycle</li> <li>-The Eukaryotic Chromosomes</li> <li>-Prokaryotic cell division</li> </ul>
<b>Week 10</b>	<p>Mitosis</p> <ul style="list-style-type: none"> <li>- Mitosis and cytokinesis.</li> <li>- Cytokinesis in plant</li> </ul>
<b>Week 11</b>	Sexual Reproduction in the Flowering Plant
<b>Week 12</b>	<p>Meiosis and reproduction</p> <ul style="list-style-type: none"> <li>- Meiosis I</li> <li>-Meiosis II</li> <li>- Spermatogenesis</li> <li>- Oogenesis</li> </ul>
<b>Week 13</b>	<p>Evolution</p> <ul style="list-style-type: none"> <li>- Source of variation</li> <li>- The evolutionary history of biological diversity</li> <li>- An Overview of Plant Diversity</li> <li>-An Overview of Animal</li> <li>-Phylogenetic tree</li> </ul>
<b>Week 14</b>	Ecosystem and Relationships between Organisms
<b>Week 15</b>	Preparatory week before the final Exam
<b>Week 16</b>	<b>FINAL EXAM</b>

### Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	Kingdoms Types of Cell
Week 2	Cell Components
Week 3	Cell membrane and transport
Week 4	Preparation of slide which contain cells
Week 5	Cell division
Week 6	Necrosis and apoptosis
Week 7	Inflammation and Organelles Diseases

### Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	Mader: Human Biology	Yes
Recommended Texts	Campbell Biology Textbook, 11th Edition	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
<b>Fail Group (0 – 49)</b>	<b>FX – Fail</b>	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	<b>F – Fail</b>	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	<b>Occupational laboratory safety</b>		Module Delivery
Module Type	Basic		<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	<b>Biot-124</b>		
ECTS Credits	3		
SWL (hr/sem)	75		
Module Level	1	Semester of Delivery	
Administering Department	BSc-Biot.	College	Type College Code
Module Leader	Assist.proff.Dr.Maysam Najji Ahmed		E-mail: maysam_naji@uofallujah.edu.iq
Module Leader's Acad. Title	Assit.Professor	Module Leader's Qualification	Ph.D.
Module Tutor		e-mail	
Peer Reviewer Name	Name: Dr Mohammed Jobair Muhaid	e-mail	E-mail: mjm20002014@uofallujah.edu.iq
Scientific Committee Approval Date	01/06/2023	Version Number	1.0

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

## Module Aims, Learning Outcomes and Indicative Contents

### أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

<p><b>Module Objectives</b></p> <p>أهداف المادة الدراسية</p>	<p>To introduce students to essential laboratory techniques in healthcare sciences student must learn the following topics:</p> <ol style="list-style-type: none"> <li>1. Biological risk assessment</li> <li>2. Biosafety guidelines and regulations</li> <li>3. Biotechnology and cell biology</li> <li>4. Containment equipment</li> <li>5. Decontamination</li> <li>6. Laboratory-acquired infections</li> <li>7. Medical surveillance</li> <li>8. Shipment of biological materials</li> <li>9. Waste disposal</li> </ol>
<p><b>Module Learning Outcomes</b></p> <p>مخرجات التعلم للمادة الدراسية</p>	<p>Important: Write at least 6 Learning Outcomes, better to be equal to the number of study weeks.</p> <p style="text-align: center;">Upon successful completion, students will have the knowledge and skills to:</p> <p>The syllabus is designed to provide the student with a strong science-based, patient-centred training in a healthcare science and is partly defined by the HCPC Standards of Proficiency and equivalent HEE standards. The education, training competencies relating to these standards will be demonstrated in a manner appropriate to your working environment and therefore your syllabus will be negotiated between you, your workplace clinical tutor and the course tutor. In this module you will acquire new competencies relating to appropriate Standards of Proficiency. Study skills: techniques useful to optimise learning from lectures, seminars, tutorials and practical sessions; effective written communication; time management. IT skills: computer-assisted learning, use of computer networks, Powerpoint presentation, essay writing, approaches to assessments and examinations. Use of library facilities, learning styles and self-evaluation, action planning, reflective practice. Researching careers information, occupational and employer search and the Internet. Presentations skills: how to reach your audience. Working with others, theoretical concepts, negotiation and achieving objectives. Laboratory skills: familiarisation with laboratory facilities, safety aspects, record keeping and report writing, instrument calibration and maintenance, concepts of accuracy and precision, sample preparation and dilutions. Specific techniques used in biomedical sciences: cell counting methods (manual and automated), light spectrophotometry, balances, pH meter, micropipettes, centrifugation methods.</p>
<p><b>Indicative Contents</b></p> <p>المحتويات الإرشادية</p>	<p>Biosafety is the prevention of large-scale loss of biological integrity, focusing both on ecology and human health.[1] These prevention mechanisms include conduction of regular reviews of the biosafety in laboratory settings, as well as strict guidelines to follow. Biosafety is used to protect from harmful incidents. Many laboratories handling biohazards employ an ongoing risk management assessment and enforcement process</p>

	for biosafety. Failures to follow such protocols can lead to increased risk of exposure to biohazards or pathogens. Human error and poor technique contribute to unnecessary exposure and compromise the best safeguards set into place for protection.
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## Learning and Teaching Strategies

### استراتيجيات التعلم والتعليم

<b>Strategies</b>	The module will be delivered as lectures and seminars to develop knowledge and understanding, computing workshops, laboratory classes and small group tutorials. Directed study will include experiential and theoretical learning of the range of competencies defined in the HCPC Standards of Proficiency and equivalent HEE standards and the compilation of evidence to demonstrate that competency. Reflection will be developed through the use of a learning log. All of the knowledge required will be assessed by coursework throughout the module. Formative assessments will be followed by summative assessment, culminating in five pieces of course work presented as a portfolio including a reflective statement on an area of practice and a work-based written assignment.
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## Student Workload (SWL)

### الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا

<b>Structured SWL (h/sem)</b> الحمل الدراسي المنتظم للطالب خلال الفصل	53	<b>Structured SWL (h/w)</b> الحمل الدراسي المنتظم للطالب أسبوعيا	3.5
<b>Unstructured SWL (h/sem)</b> الحمل الدراسي غير المنتظم للطالب خلال الفصل	22	<b>Unstructured SWL (h/w)</b> الحمل الدراسي غير المنتظم للطالب أسبوعيا	1.4
<b>Total SWL (h/sem)</b> الحمل الدراسي الكلي للطالب خلال الفصل	<b>125</b>		

## Module Evaluation

### تقييم المادة الدراسية

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

### Delivery Plan (Weekly Syllabus)

#### المنهاج الاسبوعي النظري

	Material Covered
<b>Week 1</b>	Discuss and evaluate essential practical techniques for healthcare sciences.
<b>Week 2</b>	Review and reflect on the application of the competencies that you have achieved in your working environment with tutor support.
<b>Week 3</b>	Perform essential laboratory techniques, produce scientific reports and communicate scientific information in an essay format. With some tutor support demonstrate competency in the range of HCPC Standards of Proficiency and equivalent HEE standards as agreed between you, your workplace tutor and course tutor. With tutor support carry out laboratory based tasks to an acceptable standard
<b>Week 4</b>	Work in accordance with laboratory safety protocols, understand the health and safety requirements with respect to patient identification, sample type, protective clothing, hazard data sheets (including COSHH), equipment (HCPC standards 4, 3.2, 14, 15). This Clinical Experiential Learning will facilitate learning and achievement of stated outcomes.
<b>Week 5</b>	Write reports, communicate orally and in writing.
<b>Week 6</b>	Use IT for presentation and to perform numerical calculations.
<b>Week 7</b>	Describe the principles of career management and working with others.

<b>Week 8</b>	Describe the work of the healthcare science workforce and explain how it contributes to the patient pathways relevant to each area of their placement.
<b>Week 9</b>	Explain the need to ensure that the needs and wishes of the patient are central to their care and explain the importance of developing and maintaining the patient-professional partnership.
<b>Week 10</b>	Apply reflective practice.
<b>Week 11</b>	Biosecurity and Responsibilities of Laboratory Workers
<b>Week 12</b>	Work injury and occupational diseases
<b>Week 13</b>	Types of wounds and injuries and their management
<b>Week 14</b>	Fire prevention methods and types of fire extinguishers
<b>Week 15</b>	Tools, tools and methods to use them
<b>Week 16</b>	<b>FINAL EXAM</b>

### Learning and Teaching Resources

#### مصادر التعلم والتدريس

	<b>Text</b>	<b>Available in the Library?</b>
<b>Required Texts</b>	<ol style="list-style-type: none"> <li>1. <i>"Definition of BIOSAFETY"</i>. Retrieved October 8, 2016.</li> <li>2. Biosafety and the environment</li> </ol>	Yes
<b>Recommended Texts</b>	"Laboratory Safety Guidance" (PDF). U.S. Occupational Safety and Health Administration. 2011. pp. 9, 15, 21, 24–28. Archived from the original (PDF) on 2019-12-15. Retrieved 2019-01-17.	No
<b>Websites</b>	<ol style="list-style-type: none"> <li>1. WHO Biosafety Manual</li> <li>2. International Centre for Genetic Engineering and Biotechnology (ICGEB): Biosafety pages</li> </ol>	

## Grading Scheme

### مخطط الدرجات

Group	Grade	التقدير	Marks %	Definition
<b>Success Group</b> <b>(50 - 100)</b>	<b>A</b> - Excellent	امتياز	90 - 100	Outstanding Performance
	<b>B</b> - Very Good	جيد جدا	80 - 89	Above average with some errors
	<b>C</b> – Good	جيد	70 - 79	Sound work with notable errors
	<b>D</b> - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	<b>E</b> - Sufficient	مقبول	50 - 59	Work meets minimum criteria
<b>Fail Group</b> <b>(0 – 49)</b>	<b>FX</b> – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	<b>F</b> – 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	<b>English</b>		Module Delivery
Module Type	S		<input checked="" type="checkbox"/> Theory
Module Code	<b>UOF-101</b>		Lecture
ECTS Credits	4		Lab
SWL (hr/sem)	<b>175</b>		<input type="checkbox"/> Tutorial
			<input type="checkbox"/> Practical
			<input type="checkbox"/> Seminar
Module Level	1	Semester of Delivery	1
Administering Department	Type Dept. code	College	Type College Code
Module Leader	Assist. Prof. Dr. Ayad Hammood Ahmed	e-mail	
Module Leader's Acad. Title	Assistant Professor	Module Leader's Qualification	Ph.D.
Module Tutor	Mohammed Majeed	e-mail	E-mail
Peer Reviewer Name		e-mail	
Scientific Committee Approval Date		Version Number	

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
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أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

<p><b>Module Objectives</b> أهداف المادة الدراسية</p>	<p>11. Describe the nature and uses of language in light of audience and purpose. 12. To use English effectively for study purpose across the curriculum 13. Develop interest in and appreciation of Literature. 14. Demonstrate critical thinking skills.</p>
<p><b>Module Learning Outcomes</b> مخرجات التعلم للمادة الدراسية</p>	<p>Outcome 1 Identification of Complex Relationships Graduates will be able to illustrate the structure and function of cellular components and explain how they interact in a living cell.</p> <p>Outcome 2 Oral and Written Communication Graduates will be able to formally communicate the results of biological investigations using both oral and written communication skills.</p> <p>Outcome 3 Laboratory and Field Studies Graduates will be able to perform laboratory experiments and field studies, by using scientific equipment and computer technology while observing appropriate safety protocols.</p> <p>Outcome 4 Scientific Knowledge Graduates will be able to demonstrate a balanced concept of how scientific knowledge develops, including the historical development of foundational theories and laws and the nature of science.</p> <p>Outcome 5 Data Analyses Graduates will be able to demonstrate scientific quantitative skills, such as the ability to conduct simple data analyses.</p> <p>Outcome 6 Critical Thinking Graduates will be able to use critical-thinking and problem-solving skills to develop a research project and/or paper</p>
<p><b>Indicative Contents</b> المحتويات الإرشادية</p>	<p>In congruence with the teaching and learning strategy of the college, the following tools are used:  XIX. Class lectures, interactive learning (class discussions, group work) video presentations, and practical problems solved in class.</p>

	<p>XX. Exercises and primary source documents are assigned as homework, the solutions of which are reviewed in class</p> <p>XXI. Laboratory work (some laboratory reports and drawings may be required).</p> <p>XXII. CD-ROMS (The Dynamic Human, Explorations in Human Biology. Virtual Biology Laboratory, Explorations in Cell Biology &amp; Genetics).</p> <p>XXIII. Office hours: students are encouraged to make full use of the office hours of their instructor, where they can ask questions, see their exam paper, and/or go over lecture/lab material.</p> <p>XXIV. Use of a blackboard site, where instructors post lecture notes, assignment instructions, timely announcements, as well as additional resources</p>
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### Learning and Teaching Strategies

#### استراتيجيات التعلم والتعليم

<b>Strategies</b>	<p>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 types of simple experiments involving some sampling activities that are interesting to the students.</p>
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### Student Workload (SWL)

#### الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا

<b>Structured SWL (h/sem)</b> الحمل الدراسي المنتظم للطالب خلال الفصل	75	<b>Structured SWL (h/w)</b> الحمل الدراسي المنتظم للطالب أسبوعيا	5
<b>Unstructured SWL (h/sem)</b> الحمل الدراسي غير المنتظم للطالب خلال الفصل	25	<b>Unstructured SWL (h/w)</b> الحمل الدراسي غير المنتظم للطالب أسبوعيا	1.6
<b>Total SWL (h/sem)</b> الحمل الدراسي الكلي للطالب خلال الفصل	<b>100</b>		

## Module Evaluation

### تقييم المادة الدراسية

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

## Delivery Plan (Weekly Syllabus)

### المنهاج الاسبوعي النظري

	Material Covered
Week 1	Unit One - Describing people and All types of Adjectives (What is your Story):
Week 2	<ul style="list-style-type: none"> <li>Students will learn to describe people using different types of adjectives.</li> </ul>
Week 3	<ul style="list-style-type: none"> <li>They will understand the various categories of adjectives and their usage.</li> </ul>
Week 4	<ul style="list-style-type: none"> <li>Students will be able to construct sentences with descriptive adjectives.</li> </ul>
Week 5	Unit Two - Tenses and Parts of speech (Language Matters):
Week 6	<ul style="list-style-type: none"> <li>Students will comprehend different verb tenses and their usage in sentences.</li> </ul>
Week 7	<ul style="list-style-type: none"> <li>They will learn about the various parts of speech and their roles in sentence structure.</li> </ul>
Week 8	<ul style="list-style-type: none"> <li>Students will be able to identify and use different tenses and parts of speech accurately.</li> </ul>

<b>Week 9</b>	<b>Unit Three: Verbs and Vocabulary for Leisure Activities</b>
<b>Week 10</b>	<ul style="list-style-type: none"> <li>Expand vocabulary related to leisure activities and hobbies.</li> </ul>
<b>Week 11</b>	<ul style="list-style-type: none"> <li>Learn new verbs and expressions used when discussing leisure and free time.</li> </ul>
<b>Week 12</b>	<ul style="list-style-type: none"> <li>Describe personal hobbies and interests using appropriate vocabulary and sentence structures.</li> </ul>
<b>Week 13</b>	<ul style="list-style-type: none"> <li>Engage in conversations about leisure activities.</li> </ul>
<b>Week 14</b>	Unit Four - "Tales of the Unexpected": Learning and understanding narrative tenses (e.g., past simple, past continuous, past perfect) to recount stories and events. Improving spelling and pronunciation of common words and phrases used in narratives
<b>Week 15</b>	Final exam.

### Learning and Teaching Resources

#### مصادر التعلم والتدريس

	Text	Available in the Library?
<b>Required Texts</b>	<b>Curriculum: Headway Intermediate (5 edition).</b>	Yes
<b>Recommended Texts</b>		
<b>Websites</b>		

### Grading Scheme

#### مخطط الدرجات

Group	Grade	التقدير	Marks %	Definition
<b>Success Group (50 - 100)</b>	<b>A – Excellent</b>	امتياز	90 - 100	Outstanding Performance
	<b>B - Very Good</b>	جيد جدا	80 - 89	Above average with some errors
	<b>C – Good</b>	جيد	70 - 79	Sound work with notable errors
	<b>D - Satisfactory</b>	متوسط	60 - 69	Fair but with major shortcomings
	<b>E – Sufficient</b>	مقبول	50 - 59	Work meets minimum criteria



<b>Fail Group</b>	<b>FX – Fail</b>	راسب (قييد المعالجة)	(45-49)	More work required but credit awarded
<b>(0 – 49)</b>	<b>F – Fail</b>	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	<b>Biotechnology</b>		Module Delivery
Module Type	Core		<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	<b>Biot-111</b>		
ECTS Credits	8		
SWL (hr/sem)	<b>200</b>		
Module Level	1	Semester of Delivery	
Administering Department	BSc.Biot	College	Type College Code
Module Leader	. Prof.Dr. leqaa Majeed Aziz	e-mail	Leqaa.aziz@uofallujah.edu.iq
Module Leader's Acad. Title	Assist .Professor	Module Leader's Qualification	Ph.D.
Module Tutor	Dr. Firas R. Jameel	e-mail	
Peer Reviewer Name	Prof.Dr. Mohammed Jobair Muhaidi	e-mail	mjm20002014@uofallujah.edu.iq
Scientific Committee Approval Date		Version Number	

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
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## أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

<p><b>Module Objectives</b></p> <p>أهداف المادة الدراسية</p>	<ol style="list-style-type: none"> <li>15. To understand the basic concepts of molecular biology and methods used in the manipulation of nucleic acids to isolate and characterize genes.</li> <li>16. To understand how molecular tools are used to modify an organism.</li> <li>17. To become aware of the numerous benefits of molecular biology and its utilization in basic and applied sciences.</li> <li>18. To develop an understanding of the regulatory and social issues surrounding biotechnology.</li> <li>19. To develop students' ability to apply knowledge and skills to solve theoretical and practical problems in biology and biotechnology.</li> <li>20. To provide students with the basis for the life-long self-learning in an attempt to keep up with the continuous quick changes in the field of biotechnology.</li> <li>21. To foster entrepreneurship among students in areas pertinent to biotechnology.</li> <li>22. To acquaint the students with the principles of biosafety and ethical perspectives of biotechnological systems.</li> <li>23. To establish a strong reliable infrastructure and facilities to implement the current advanced applications in biotechnology and gene sequencing as a diagnostic tool for genetic disorders . In addition, the biotechnology provides applications on plants, microbiology and environment.</li> </ol>
<p><b>Module Learning Outcomes</b></p> <p>مخرجات التعلم للمادة الدراسية</p>	<ol style="list-style-type: none"> <li>1. Describe levels of organization and related functions in plants and animals.</li> <li>2. Identify the characteristics and basic needs of living organisms and ecosystems.</li> <li>3. Explain the processes of growth and development in individuals and populations.</li> <li>4. Design and assess the scientific investigations in biotechnology</li> <li>5. Define and contrast the terms agriculture and agricultural biotechnology.</li> <li>6. Recognize the importance of Intellectual Property in the context of Industrial Biotechnology.</li> <li>7. To understand the current applications of biotechnology to environmental quality evaluation, monitoring and remediation of contaminated environments.</li> <li>8. To make known the great biodiversity existing in the microbial world and relate the ecophysiological aspects of microorganisms to the functioning of the biogeochemical cycles that govern the terrestrial ecosphere. Know the possibilities of environmental application presented by the biotechnology of higher organisms</li> <li>9. Know the characteristics of raw material and industrial processes applied to obtain the most relevant fermented</li> <li>10. foods.</li> <li>11. Describe the role of enzymes in foods, and the most important enzymatic transformations in the food industry.</li> <li>12. Able to consult the relevant sources of information in Food Biotechnology and analyze the content.</li> <li>13. Learn the basics of medical biotechnology, the most important of which is</li> </ol>

	gene therapy 14. Learn the basics of recombinant DNA technology and PCR Technique
<b>Indicative Contents</b> المحتويات الإرشادية	In congruence with the teaching and learning strategy of the college, the following tools are used:  <ol style="list-style-type: none"> <li>1. Class lectures, interactive learning (class discussions, group work) video presentations, and practical problems solved in class.</li> <li>2. Exercises and primary source documents are assigned as homework, the solutions of which are reviewed in class</li> <li>3. Laboratory work (some laboratory reports and drawings may be required).</li> <li>4. CD-ROMS (Introduction of biotechnology, Recombinant DNA technology و Virtual Biotechnology Laboratory, Explorations in Biotechnology &amp; Genetics).</li> <li>5. Office hours: students are encouraged to make full use of the office hours of their instructor, where they can ask questions, see their exam paper, and/or go over lecture/lab material.</li> <li>6. Use of a blackboard site, where instructors post lecture notes, assignment instructions, timely announcements, as well as additional resources.</li> </ol>

### Learning and Teaching Strategies

#### استراتيجيات التعلم والتعليم

<b>Strategies</b>	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 types of simple experiments involving some sampling activities that are interesting to the students.
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### Student Workload (SWL)

#### الحمل الدراسي للطلاب محسوب ل ١٥ اسبوعا

<b>Structured SWL (h/sem)</b> الحمل الدراسي المنتظم للطلاب خلال الفصل	153	<b>Structured SWL (h/w)</b> الحمل الدراسي المنتظم للطلاب أسبوعيا	10.2
<b>Unstructured SWL (h/sem)</b> الحمل الدراسي غير المنتظم للطلاب خلال الفصل	47	<b>Unstructured SWL (h/w)</b> الحمل الدراسي غير المنتظم للطلاب أسبوعيا	3.13
<b>Total SWL (h/sem)</b>	<b>200</b>		

### Module Evaluation

تقييم المادة الدراسية

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

### Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
Week 1	Introduction of biotechnology <ul style="list-style-type: none"> <li>• What is biotechnology</li> <li>• History of biotechnology</li> <li>• Major scientific discoveries in biotechnology</li> <li>• Biotechnology as the science of integration</li> <li>• Future of biotechnology</li> </ul>
Week 2	Plant environmental biotechnology <ul style="list-style-type: none"> <li>• Plant breeding</li> <li>• Applications molecular tools in agriculture</li> <li>• Gene transfer methods in plant</li> </ul>
Week 3	Animal biotechnology

<b>Week 4</b>	<p>Industrial biotechnology</p> <ul style="list-style-type: none"> <li>• Medicine and pharmacological industry</li> <li>• Vaccine production</li> <li>• Food industry</li> <li>• Health care products</li> </ul>
<b>Week 5</b>	Microbial biotechnology
<b>Week 6</b>	Midterm exam
<b>Week 7</b>	<p>Medical biotechnology</p> <ul style="list-style-type: none"> <li>• Gene therapy</li> <li>• Biocontrol therapy</li> <li>• Organ transplant</li> <li>• Stem cells</li> </ul>
<b>Week 8</b>	Aquatic and food biotechnology
<b>Week 9</b>	Production biomolecular using fermenter technology
<b>Week 10</b>	Gene and genome
<b>Week 11</b>	<p>Recombinant DNA technology</p> <ul style="list-style-type: none"> <li>• Development of Recombinant DNA technology</li> <li>• Significance of restriction enzymes in Recombinant DNA technology</li> <li>• Significance of vectors in Recombinant DNA technology</li> <li>• Introduction of the Recombinant DNA into the suitable host</li> <li>• Selection of Recombinant clones</li> </ul>
<b>Week 12</b>	Gene cloning
<b>Week 13</b>	PCR technology
<b>Week 14</b>	Forensic biotechnology
<b>Week 15</b>	Preparatory week before the final Exam
<b>Week 16</b>	<b>FINAL EXAM</b>

## Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	Lab 1: Introduction to protein and DNA extraction method
Week 2	Lab 2: cell Lysis methods
Week 3	Lab 3: protein precipitation
Week 4	Lab 4: Dialysis of protein solution
Week 5	Lab 5: protein concentration assay and standard curve
Week 6	Lab 6: chromatography
Week 7	Lab 7: Mid-term Exam
Week 8	Lab 8: electrophoresis of protein
Week 9	Lab 9: chromatography
Week 10	Lab 10: DNA extraction -1
Week 11	Lab 11: DNA extraction -2
Week 12	Lab 12: DNA purity and concentration assessment methods
Week 13	Lab 13: DNA electrophoresis
Week 14	<b>Preparatory week before the final Exam</b>

## Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
<b>Required Texts</b>	Biotechnology fundamental	Yes
<b>Recommended Texts</b>	Biotechnology for beginners	Yes

<b>Websites</b>	<a href="http://libgen.rs/book/index.php?md5=2DD907AE1C86B4E92BE5615BCEF729E3">http://libgen.rs/book/index.php?md5=2DD907AE1C86B4E92BE5615BCEF729E3</a>
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<b>Grading Scheme</b> مخطط الدرجات
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Group	Grade	التقدير	Marks %	Definition
<b>Success Group</b> (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
<b>Fail Group</b> (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	<b>Human rights ,Freedom and Democracy</b>		Module Delivery
Module Type	S		<input checked="" type="checkbox"/> Theory Lecture Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	<b>UOF-102</b>		
ECTS Credits	3		
SWL (hr/sem)	75		
Module Level	1	Semester of Delivery	
Administering Department	BSc-Biot	College	Type College Code
Module Leader	Majed A. Ismaal	e-mail	
Module Leader's Acad. Title	Assistant Professor	Module Leader's Qualification	MSc
Module Tutor	Name (if available)	e-mail	E-mail
Peer Reviewer Name		e-mail	
Scientific Committee Approval Date		Version Number	

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	

<p><b>Module Objectives</b></p> <p>أهداف المادة الدراسية</p>	<ol style="list-style-type: none"> <li>1. The historical development of human rights.</li> <li>2. The role of international organizations in ensuring freedom and respect for human rights.</li> <li>3. Democracy and its types and its impact on third world countries.</li> <li>4. Types and future of freedoms</li> </ol>
<p><b>Module Learning Outcomes</b></p> <p>مخرجات التعلم للمادة الدراسية</p>	<p>Outcome 1</p> <p>Identification of Complex Relationships</p> <p>Graduates will be able to illustrate the moral, legal or societal rules and an understanding of what is necessary to fulfil people's social needs and to promote social inclusion and social solidarity</p> <p>Outcome 2</p> <p>Oral and Written Communication</p> <p>Graduates will be able to understand that all human beings are born free and equal in dignity and rights.</p> <p>Outcome 3</p> <p>Graduates will be able to recognize our freedom to make choices about our lives and to develop our potential as human beings. They are about living a life free from fear, harassment or discrimination</p> <p>Outcome 4</p> <p>Graduates will be able to understand that a democracy is a society in which the citizens are sovereign and control the government</p>
<p><b>Indicative Contents</b></p> <p>المحتويات الإرشادية</p>	<p>In congruence with the teaching and learning strategy of the college, the following tools are used:</p> <p>XXV. Class lectures, interactive learning (class discussions, group work) video presentations, and practical problems solved in class.</p> <p>XXVI. Exercises and primary source documents are assigned as homework, the solutions of which are reviewed in class</p> <p>XXVII. Laboratory work (some laboratory reports and drawings may be required).</p> <p>XXVIII. Office hours: students are encouraged to make full use of the office hours of their instructor, where they can ask questions, see their exam paper, and/or go over lecture/lab material.</p> <p>XXIX. Use of a blackboard site, where instructors post lecture notes, assignment instructions, timely announcements, as well as additional resources</p>

## Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

<b>Strategies</b>	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 types of simple experiments involving some sampling activities that are interesting to the students.
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<b>Student Workload (SWL)</b> الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
<b>Structured SWL (h/sem)</b> الحمل الدراسي المنتظم للطالب خلال الفصل	53	<b>Structured SWL (h/w)</b> الحمل الدراسي المنتظم للطالب أسبوعيا	3.5
<b>Unstructured SWL (h/sem)</b> الحمل الدراسي غير المنتظم للطالب خلال الفصل	22	<b>Unstructured SWL (h/w)</b> الحمل الدراسي غير المنتظم للطالب أسبوعيا	1.46
<b>Total SWL (h/sem)</b> الحمل الدراسي الكلي للطالب خلال الفصل	<b>75</b>		

<b>Module Evaluation</b> تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
	<b>Quizzes</b>	2	10% (10)	5 and 10	LO #1, #2 and #10, #11

Formative assessment	Assignments	2	10% (10)	2 and 12	LO #3, #4 and #6, #7
	Projects / Lab.	1	10% (10)	Continuous	All
	Report	1	10% (10)	13	LO #5, #8 and #10
Summative assessment	Midterm Exam	2hr	10% (10)	7	LO #1 - #7
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

### Delivery Plan (Weekly Syllabus)

#### المنهاج الاسبوعي النظري

	Material Covered
Week 1	حقوق الانسان، تعريفها واهدافها
Week 2	جذور حقوق الانسان وتطورها في التاريخ البشري
Week 3	حقوق الانسان في الحضارات القديمة وخصوصا حضارة وادي الرافدين
Week 4	حقوق الانسان في الشرائع السماوية وخصوصا الاسلام
Week 5	حقوق الانسان في العصور الوسطى
Week 6	حقوق الانسان في التاريخ المعاصر الحديث
Week 7	الاعتراف الاقليمي بحقوق الانسان
Week 8	امتحان
Week 9	تعريف الديمقراطية
Week 10	تصنيف الديمقراطية
Week 11	حقوق الانسان في الدساتير العراقية بين النظرية والواقع
Week 12	حقوق الانسان الضرورية وحقوق الانسان الجماعية
Week 13	حقوق الانسان الاقتصادية والثقافية والاجتماعية
Week 14	حقوق الانسان الحديثة

Week 15	الامتحان النهائي
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Learning and Teaching Resources		
مصادر التعلم والتدريس		
	Text	Available in the Library?
Required Texts		No
Recommended Texts		
Websites		

Grading Scheme				
مخطط الدرجات				
Group	Grade	التقدير	Marks %	Definition
<b>Success Group (50 - 100)</b>	A – Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
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	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.