



Ministry of Higher Education and Scientific Research -  
Iraq  
Al-Mustaqbal University  
College of Engineering  
Department of Prosthetics and Orthotics Engineering



## MODULE DESCRIPTOR FORM

### نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	علم الأمراض		Module Delivery
Module Type	CORE		<input checked="" type="checkbox"/> Theory <input type="checkbox"/> Lecture <input type="checkbox"/> Lab <input checked="" type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	UOMU0103066		
ECTS Credits	4		
SWL (hr/sem)	100		
Module Level	3	Semester of Delivery	
Administering Department	UOMU0103	College	UOMU01
Module Leader	Rawaa Awad Kadhum	e-mail	rawaa.awad.kadhum@uomus.edu.iq
Module Leader's Acad. Title	Lect. Dr.	Module Leader's Qualification	PhD.
Module Tutor			
Peer Reviewer Name		e-mail	
Review Committee Approval	10/03/2025	Version Number	1.3

## Relation With Other Modules

العلاقة مع المواد الدراسية الأخرى

<b>Prerequisite module</b>	Anatomy	<b>Semester</b>	3
<b>Co-requisites module</b>	Physiology	<b>Semester</b>	

## Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

<p><b>Module Aims</b> أهداف المادة الدراسية</p>	<ol style="list-style-type: none"> <li>1. Learn the facts, principles, scientific terms, and concepts of major biological disciplines and other related sciences</li> <li>2. Different organisms based on their habitats, external characteristics, anatomy, and other biologically relevant characteristics</li> <li>3. Determine the basics, routines, and technical requirements for using various scientific instruments and devices</li> <li>4. Apply biological concepts using an integration of academic knowledge and professional skills</li> <li>5. Explore relatively complex scientific problems, facts, and opinions using an extension of acquired knowledge to recommend classical or innovative solutions with limited guidance</li> <li>6. Use the concepts and foundations of biological sciences in economic, social and environmental contexts</li> </ol> <p>Explaining the functions of macromolecules (such as DNA, proteins, lipids, etc.) in different biological systems</p>
<p><b>Module Learning Outcomes</b> مخرجات التعلم للمادة الدراسية</p>	<p>Upon successful completion of pathology, students will be able to:</p> <ol style="list-style-type: none"> <li>1. Identify key differences between specific subtypes of human body cell.</li> <li>2. Evaluate contributions of human body cells to function.</li> <li>3. Illustrate how neuromodulator projections can regulate the function of neural circuits.</li> <li>4. Explain the cellular basis of neural synchrony in local circuits.</li> <li>5. Evaluate the properties of neural circuits underlying perception and behavior.</li> <li>6. Evaluate evidence that different diseases are manifest through specific deficits in circuit function.</li> <li>7. so as to understand rather than just memorize concepts regarding human anatomy.</li> </ol>
<p><b>Indicative Contents</b> المحتويات الإرشادية</p>	<p>Indicative content includes the following.</p> <p>Explain the parts of the human body. Identify the types of muscles and their mechanism of action. The relationship of human body systems. Link theoretical information with possible pathological conditions. Providing them with skills in diagnosing the disease and following up the development of the pathological condition.</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 type of simple experiments involving some sampling activities that are interesting to the students.
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## Student Workload (SWL)

### الحمل الدراسي للطلاب

<b>Structured SWL (h/sem)</b> الحمل الدراسي المنتظم للطلاب خلال الفصل	48	<b>Structured SWL (h/w)</b> الحمل الدراسي المنتظم للطلاب أسبوعياً	3
<b>Unstructured SWL (h/sem)</b> الحمل الدراسي غير المنتظم للطلاب خلال الفصل	52	<b>Unstructured SWL (h/w)</b> الحمل الدراسي غير المنتظم للطلاب أسبوعياً	3
<b>Total SWL (h/sem)</b> الحمل الدراسي الكلي للطلاب خلال الفصل	100		

## 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, 10	LO #1, 2, 10 and 11
	<b>Assignments</b>	2	10% (10)	2, 12	LO # 3, 4, 6 and 7
	<b>Projects / Lab.</b>	1	10% (10)	12	-
	<b>Report</b>	1	10% (10)	13	LO # 5, 8 and 10
<b>Summative assessment</b>	<b>Midterm Exam</b>	2 hr	10% (10)	7	LO # 1-7
	<b>Final Exam</b>	2hr	50% (50)	16	All
<b>Total assessment</b>			100% (100 Marks)		

<b>Delivery Plan (Weekly Syllabus)</b> المنهاج الاسبوعي النظري	
	<b>Material Covered</b>
<b>Week 1</b>	Introduction to pathology Overview of pathology Concepts and Principles
<b>Week 2</b>	Cell Adaptation and Cell Injury I
<b>Week 3</b>	Cell Adaptation and Cell Injury II
<b>Week 4</b>	Cell Adaptation and Cell Injury III
<b>Week 5</b>	Inflammations I: signs and symptoms – types of inflammation, Acute & Chronic inflammation
<b>Week 6</b>	Inflammations II: signs and symptoms – types of inflammation, Acute & Chronic inflammation
<b>Week 7</b>	Repair(healing) I
<b>Week 8</b>	Repair(healing) II: Wounds – types of healing process.
<b>Week 9</b>	Metabolic disorders – Diabetes, Rickets, Hyper & Hypo-para throidesm & parathyroidism, metabolic disorders – Osteoporosis I
<b>Week 10</b>	Metabolic disorders – Diabetes, Rickets, Hyper & Hypo-para throidesm & parathyroidism, metabolic disorders – Osteoporosis II
<b>Week 11</b>	Inflammation of joints – Arthritis – classification and pathology
<b>Week 12</b>	Vascular disorders- Thrombosis, Embolism, Thrombo angites, Obliterands. Arthrosclerosis, hyper lesions.
<b>Week 13</b>	Tumors; type, Couse and classifications
<b>Week 14</b>	Generation health and disease information
<b>Week 15</b>	generation, classification, clinical application of pathology

<b>Learning and Teaching Resources</b> مصادر التعلم والتدريس		
	<b>Text</b>	<b>Available in the Library?</b>
<b>Required Texts</b>	1- Textbook of General Anatomy- snell clinical anatomy 2019 Gyton textbook of physiology	No
<b>Recommended Texts</b>	1- HUMAN pathology - Color Atlas and Textbook- J.A.G., P.F.H., J.R.H., I.W., P.L.T.W. Sixth edition 2017. 2- Text book of Anatomy – Inderbir Singh – 5 <sup>th</sup> . Edition - Published by Jaypee Brothers Medical Publishers (P) Ltd, 2011.	No
<b>Websites</b>	All net sources	

## APPENDIX:

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	مقبول بقرار	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required
Note:				
<p><b>Note:</b> 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.</p>				



ملاحظة: هذا النموذج تم وضعه وتقديمه من قبل مديرية ضمان الجودة في وزارة التعليم العالي والبحث العلمي