



Ministry of Higher Education and
Scientific Research - Iraq
Al-Mustaqbal University
College Of Sciences
Department of Artificial Intelligence



MODULE DESCRIPTOR FORM

نموذج وصف المادة الدراسية

Module Information				
معلومات المادة الدراسية				
Module Title	Biophysics		Module Delivery	
Module Type	SUPPLEMENT		-Theory Lecture -Lab -PracticalSeminar	
Module Code	UOMU0341014			
ECTS Credits	5			
SWL (hr/sem)	125			
Module Level	1	Semester of Delivery	1	
Administering Department		College		
Module Leader	Ms. Maryam Hassan Abdel Muslim		e-mail	
Module Leader's Acad. Title	Lecture	Module Leader's Qualification	M.Sc.	
Module Tutor	None		e-mail	None
Peer Reviewer Name		e-mail		
Review Committee Approval		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			
Module Aims أهداف المادة الدراسية	1- Preparing and qualifying specialists to meet the requirements of the labor market. 2- Encouraging and developing scientific research in the field of physical sciences in order to keep pace with development and provide the student with the latest theoretical and practical information in the field of physical sciences. 3- Creating appropriate conditions for faculty members to develop their knowledge and educational and research skills. 4- Prepare the student appropriately for postgraduate studies and scientific research in his field of specialization.		
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	- Knowledge and understanding 1- To become familiar with the concept of general physics. 2- To classify the needs to develop the health, environmental and medical aspects 3- To detail the physical, health, environmental and medical specifications 14001 4- To analyze the general physics system and environmental pollution. 5- To evaluate the cost of maintaining health, environmental and medical aspects.		
Indicative Contents المحتويات الإرشادية	- Subject-specific skills 1 - The student's knowledge of the concept of general physics. 2- The student's ability to evaluate the extent of physical, health, environmental and medical pollution present in various organizations. 3- Enabling students to analyze the costs of physical, health, environmental and medical quality. 4- Reviews of physical, health, environmental and medical quality measurement systems.		
Learning and Teaching Strategies			
استراتيجيات التعلم والتعليم			
Strategies	1- Thinking strategy according to the student's ability (Example: If the student is able to learn the correct physical concepts, he will acquire the skill of managing and organizing his personal life) 2- - High thinking skill strategy (for example, if the student wants to make a good decision, it is important that he thinks well before he makes the decision, and if he decides without thinking or if he cannot think well or if he cannot decide or perhaps he will not decide, this means he does not have the skill high thinking) 3- Critical thinking strategy in learning (Critical Thanking) (it is a term that symbolizes the highest levels of thinking, which aims		

	<p>to pose a problem and then analyze it logically to reach the desired solution)</p> <p>4- • Determine the facts of a new situation</p> <p>5- • Place these facts and information in a pattern so that you can understand them</p> <p>• Accept or reject the source values and conclusions based upon your experience, judgment, and beliefs.</p> <p>7-Brainstorming</p>
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Student Workload (SWL) الحمل الدراسي للطالب			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	102	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	7
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	98	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	7
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	125		

Module Evaluation تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	1	10% (10)	5	LO # 1 and 3
	Practical Seminar(Lab).	2	15% (15)	Continuous	LO # 2 , 4 and 5
Summative assessment	Midterm Exam	1 hr	15% (15)	14	LO # 1 to 5
	Final Exam	3hr	60% (60)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
	Material Covered

Week 1	Scalar quantities and vector quantities
Week 2	Vector analysis
Week 3	Vector multiplication
Week 4	Cross multiplication
Week 5	Material and charge
Week 6	electric charges
Week 7	Law of conservation of charge
Week 8	Conductive materials and insulating materials
Week 9	Coulomb's law
Week 10	Modular systems
Week 11	Electric field
Week 12	Calculate the electric field strength
Week 13	Movement of charged particles in an electric field
Week 14	Electron charge
Week 15	Final Exam

Delivery Plan (Weekly Lab. Syllabus) المنهاج الاسبوعي للمختبر	
	Material Covered
Week 1	
Week 2	
Week 3	
Week 4	
Week 5	
Week 6	
Week 7	
Week 8	
Week 9	
Week 10	
Week 11	
Week 12	

Week 13	
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Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	Available in the Library?
Required Texts		Yes
Recommended Texts		No
Websites		

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:

NB 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.