

	<p>Ministry of Higher Education and Scientific Research - Iraq Al-Mustaql University College Of Sciences Department of biology</p>	
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MODULE DESCRIPTOR FORM

نموذج وصف المادة الدراسية

Module Information

معلومات المادة الدراسية

Module Title	INVERTEBRATES			Module Delivery
Module Type	CORE			<ul style="list-style-type: none"> -Theory Lecture -Lab -Practical Seminar
Module Code	UOMU0601033			
ECTS Credits	6			
SWL (hr/sem)	150			
Module Level	1	Semester of Delivery	1	
Administering Department	BIO	College	SCI	
Module Leader	Prof. Dr. Khairy Abdullah Dawood	e-mail	Khairy.Abdullah@uomus.edu.iq	
Module Leader's Acad. Title	Professor	Module Leader's Qualification	Ph.D.	
Module Tutor	Prof. Dr. Khairy Abdullah Dawood	e-mail	Khairy.Abdullah@uomus.edu.iq	
Peer Reviewer Name		e-mail		
Review Committee Approval		Version Number		

Relation With Other Modules

العلاقة مع المواد الدراسية الأخرى

Prerequisite module	None	Semester	
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Co-requisites module	None	Semester
Module Aims, Learning Outcomes and Indicative Contents		
اهداف المادة الدراسية ومخرجات التعليم والمحتويات الارشادية		
Module Aims اهداف المادة الدراسية	<p>This study aims to:</p> <ol style="list-style-type: none"> 1. Giving information to the student regarding the invertebrates 2. Classification of the phyla of invertebrates 3. Studying an association among organisms 4. Studying the advantages and disadvantages of invertebrates 	
Module Learning Outcomes مخرجات التعلم	<ol style="list-style-type: none"> 1. Students were able to learn the latest information on invertebrates . 2. The student should know the most important terms related to the subject. 3. The student should understand the most important methods of classification of invertebrates 4. The student should know the important and distinctive characteristics of invertebrates . 5. How can they study invertebrates in future and classify it . 	
Indicative Contents المحتويات الارشادية	<p>Indicative content includes the following.</p> <ol style="list-style-type: none"> 1. Students must wear lab gowns, gloves and masks 2. Handle with care laboratory chemicals 3. Do not use the mobile device inside the laboratory 4. Do not eat food and drinks inside the laboratory 5. Ensure that tools and hands are sterilized before and after work 6. Security of laboratory necessary arranged . 	
Learning and Teaching Strategies		
استراتيجيات التعليم والتعلم		
Strategies	<ol style="list-style-type: none"> A. Theoretical lectures B. Practical laboratories C. Films and slideshows D. Scientific trips for field application 	

Student Workload (SWL)

الحمل الدراسي للطالب

Structured SWL (h/sem) الحمل الدراسي المنتظم خلال الفصل	102	Structured SWL (h/w) الحمل الدراسي المنتظم اسبوعيا	7
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم خلال الفصل	98	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم اسبوعيا	7
Total SWL (h/sem) الحمل الدراسي الكلي	200		

Module Evaluation

تقييم المادة الدراسية

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

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
Week 1	Lecture. 1: Introduction to invertebrates
Week 2	Lecture 2: Classification of phyla of invertebrates
Week 3	Lecture 3: An association among organisms
Week 4	Lecture 4: Advantages and disadvantages of invertebrates
Week 5	Lecture 5: Protozoa and Metazoa
Week 6	Exam
Week 7	Lecture 6: Radiata / Cnidaria and ctenophora
Week 8	Lecture 7: Bilateria / Protostomia / Acoelomates (Platyhelminthes and Rhynchocoela)
Week 9	Lecture 8: Pseudoocolomates (Acanthocephala , Entoprocta , Aschelminthes)

Week 10	Lecture 9: Coelmates / Arthropoda (Insects , Crustacia , Arachnida)
Week 11	Lecture 10: Mollusca and Annelida
Week 12	Lecture 11: Reuterostomia / Echinodermata , Hemichordata
Week 13	Lecture 12: Chordata / Mammals
Week 14	Lecture 13: Birds , Fishes , Reptiles , Amphibians
Week 15	Exam

Delivery Plan (Weekly Lab. Syllabus) المنهاج الاسبوعي للمختبر	
	Material Covered
Week 1	Lab 1: Type of microscopes
Week 2	Lab 2: Security of Lab
Week 3	Lab 3: Preservation of organisms
Week 4	Lab 4: Staining
Week 5	Lab 5: Geimsa stain
Week 6	Exam
Week 7	Lab 6: Preparation of charts
Week 8	Lab 7: Sterilization of lab .
Week 9	Lab 8: chemical sterilization
Week 10	Lab 9: UV light
Week 11	Lab 10: Dissecting insects
Week 12	Lab 11: Measurement of invertebrates
Week 13	Lab 12: Seminar
Week 14	Lab 13: Reports
Week 15	Exam

Learning and Teaching Resources مصادر التعليم والتدريس		
	Text	Available in the Library?
Required Texts	Biology / Fifth Edition / by Neil Campbell , Jane Reece , Lawrence Mitchell .	Yes

Recommended Texts		
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.