Second Stage: Level 3



Ministry of Higher Education and Scientific Research - Iraq University of Baghdad College of Science Department of Biology



MODULE DESCRIPTION FORM

Module Information معلومات المادة الدراسية						
Module Title	Invertebrate				Module Delivery	
Module Type	Core					
Module Code	BIO23013			⊠ The	•	
ECTS Credits	5			□ Sen		
SWL (hr/sem)	125					
Module Level		2	Ser		ester of Delivery	1
Administering	g Department	Department of Biology	College		College of Science	
Module Leader		Dr. Harith Saeed Al-Warid	e-mail		harith.saeed@sc.uobaghdad.edu.iq	
Module Leader	's Acad. Title	Assistant Professor	Modu	odule Leader's Qualification Ph.1		Ph.D.
Module Tutor Dr. Amjed Qais Ibrahim AlQaisi e-mail amjed.alqaisi@sc.uobag		sc.uobaghdad.edu.iq				
Peer Reviewer Name		Dr. Jabbar H. Yenzeel	e-mail Jabbar.yenzeel@sc.uobaghd		sc.uobaghdad.edu.iq	
Scientific Committee Approval Date		14/6/2023	Version 1	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				
Module Aims أهداف المادة الدراسية	 Study the taxonomic, anatomical and physiological characteristic features of the Invertebrates. Considering the main taxonomic Phyla of invertebrates down to the lower taxonomic ranks (Class, Order), with an example for each taxonomic rank. Considering the comparisons between the animal phyla in terms of structure and their impact on the environment and their importance (benefits and harms). 			
	By the end of the module it is expected that the student will be able to:			
Module Learning	1- Differentiate the animals at the level of phyla 2-Recognize main exponents within the most abundant phyla (e.g. at the level of Class and Order)			
Outcomes	3- Identify and explain major anatomical and physiological characteristics			
مخرجات التعلم للمادة الدراسية	4-Understand the disparity of models underpinning phylogeny of invertebrates 5-Describe particular aspects of a unique group of animals 6-Know the multiplicity of interactions between invertebrates and other organisms 7-Be up to date with day to day discoveries on evolution, physiology, genetics and behavior of invertebrates.			
Indicative Contents المحتويات الإرشادية	The vast majority of animals are invertebrates - they do not have backbones. This module provides an overview of the major invertebrate groups, highlighting the variety of body types while illuminating how basic functional needs like nutrition, reproduction, respiration, and excretion are done. The module begins with the most basic animals, such protozoa, sponges and jellyfish, and explores the possibility that these early creatures descended from earlier. The description of the many worm groups, as well as the molluscs and arthropods. The echinoderms, which are near invertebrate relatives of vertebrate creatures like us, were the last significant group to be covered. The economic, social, and scientific impact that invertebrates have on human society is identified. The evolutionary relations between the various groups is the common thread that binds this diversity into a coherent story. A series of practical exercises reinforces and complements the lecture component of this module.			

Learning and Teaching Strategies			
استر اتيجيات التعلم والتعليم			
	Using presentation lecture (discussion, survey, brainstorming). Support by showing pictures		
	and showing some videos the movement and feeding of some invertebrates		
Strategies Give the student an opportunity to search for similar materials and discuss them in the			
	lesson.		

Student Workload (SWL)				
١ أسبوعا	محسوب له ٥	الحمل الدراسي للطالب		
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	36	Structured SWL (h/w) الحمل الدر اسي المنتظم للطالب أسبو عيا	4	
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	26	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبو عيا	4	
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل			251	

Module Evaluation تقييم المادة الدر اسية					
	As	Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative -	Quizzes	5	10%	,5,8,3 11,14	LO1-LO4
assessment	Assignments	2	10%	9 and 12	LO4-LO6
assessment	Report	1	10%	13	LO7
	Projects/Lab	10	10%	Continuous	All
Summative	Midterm Exam	2 hr	10% (10)	7	LO1-LO3
assessment	Final Exam	hr 3	50% (50)	16	All
		Total assessment	100% (100 Marks)		

Delivery Plan (Weekly Syllabus)			
المنهاج الاسبوعي النظري			
Week	Material Covered		
Week 1	Introduction, Classification, Taxonomical categories and importance of invertebrates		
Week 2	Phylum Protozoa - Structure and physiology - Type of nutrition - Digestion and excretion - Respiration - Locomotion - Reproduction Classification		
	- Class Sarcodina (Amoeba , Globigerina) - Class Flagellata (<i>Euglena, Opalina, Paramecium, Ephelota</i>)		

Week 3	 Main characters Types of sponges Classification Main characters Types of sponges Classification 	Phylum Porifera Structure and physiology Phylum Porifera
Week 4	 Main characters Classification a- Class Hydrozoa (Hydra, Obelia) b- Class Scyphozoa (Aurelia) c- Class Anthozoa 	Phylum: Cnidaria
Week 5	 Main characters Classification Class Turbellaria (<i>Planaria</i>) 	Phylum: Platyhelminthes Phylum platyhelminthes
Week 6	 Main characters Classification a- Class Polychaeta (Nereis) b- Class Oligochaeta (Lumbricus) c- Class Hirudinea (Hirudo medicinalis) 	Phylum Annelida
Week 7		Mid-Term Exam
Week 8	Main charactersClassification	Phylum Arthropoda Subphylum Onchophora(<i>Peripatus</i>)
Week 9	a- Subphylum Mandibulata(Cambarus)	Phylum: Arthropoda Class: Chilopoda(Scolopendra)
Week 10	a- Subphylum Chelicerata	Phulum: Arthropoda Class:Diplopoda(Julus) Class:Arachnida(Buthus,Argiope)

	Phylum: Mollusca
	Phylum: Mollusca
	- Main characters
	- Classification
Week 11	a- Class: Aplacophora (Neomenia)
	b- Class: Polyplacophora (<i>Chiton</i>)
	c- Class: Monoplacophora (Neopilina)
	d- Class: Gastropoda(Helix)
	e- Class: Scaphopoda(Dentalium)
	a- Class: Pelecypoda(Andonata)
TT/ 1 10	b- Class: Cephalopoda (Sepia, Octopus, Nautilus)
Week 12	- Economic importance of Mollusca
	Dhylum Eahinadarmata
	Phylum Echinodermata - Main characters
Week 13	- Classification
	a- Class: Asteroidea (Asterias) b- Class: Ophiuroidea (Ophiothrix)
	Ciass. Opinarolaca (Opinomia)
***	c- Class: Echinoidea (<i>Echinus</i>)
Week 14	d- Class: Holothuroidea(<i>Holothuria</i>)
	e- Class: Crinoidea (Antedon)
Week 15	Seminar
Week 16	Preparatory week before the final Exam

Delivery Plan (Weekly Lab. Syllabus)				
المنهاج الاسبوعي للمختبر				
Week	Material Covered			
Week 1	Introduction, Invetebrate Taxonomy and binomial nomenclature			
	Phylum: Protozoa			
	Class: Flagellata			
	1- Order Cryptomonadina (Chilomonas)			
	2- Order Phytomonadina (Volvox)			
Week 2	3- Order: Euglenoidin (Euglena) + (Astasia)			
	4- Order: Dinoflagellata (Ceratium)+ (Noctiluca)			
	Class Sarcodina			
	1- Order: Amoebozoa (Amoeba) + (Pelomyxa)			

	2- Order: Testasea (Arcella)
	3- Order: Foraminifera (Globigerina)
	4- Order: Heliozoa (Actinospherium)
	5- Order: Radiolaria, different shells of Radiolaria
	Phylum: Protozoa
	Class: Ciliata
Week 3	Order: Holotricha (Paramicium, Didinium, Tetrahymena)
WEEK 3	Order: Spirotricha (Stentor, Stylonychia)
	Order: Peritricha (Vorticella)
	Order: Suctoria (Ephelota)
	Phylum: Porifera
	Body type
	1- Class: Calcarea
	- Order: Homocoela – <i>Leucosolenia</i>
Week 4	- Order: Heterocoela- Grantia
WCCK 4	2- Class: Hexactinelidae
	Euplectlla spicules
	3- Class : Demospongia
	-Order: Monoxonida – Spongilla, Ephydatia, Chalina
	-Order: Keratosa – <i>Euspongia</i>
	Phylum: Cnidaria
	Class: Hydrozoa
	Order: Calyptoblastea
Week 5	Order: Gymnoblaste
WCCR 2	Order: Hydrida
	Order: Hydrocorallina
	Order: Trachylina
	Order: Siphonophora
	Phylum: Cnidaria
Week 6	Class: Scyphozoa
	Order: Semaeostomeae (Aurelia)

		Class: : Anthozoa
		Order :Alcyonaria
		Order: Zontharia
Week 7		Mid-Term Exam
		Phylum: Platyhelminthes
		Class: Turbellaria
Week 8		Super-Phylum: Aschelminthes
		Phylum: Rotifera
		Phylum: Nematoda
		Phylum: Annelida
TT 1.0	Class: Polychaeta	
Week 9	Class: Oligichaeta	
	Class: Hirudinea	
Week 10		Phylum: Arthropoda
		Phylum: Mollusca
		Phylum: Mollusca
		1-class: Polyplacophora Ex: Chitons
		2- class: Gastropoda Order: Pulmonata
		Ex: Helix 3- class: Scaphopoda
Week 11		Ex: Dentalium
		4- class: Lamellibranchiata
		Order : Eulamellibranchiata Ex: <i>Anodonta</i>
		5- class: Cephalopoda
		Order : Dibranchiata Ex: <i>Octopus</i> , <i>Sepia</i>
		Order: Tetrabranchiata
		Ex: Nautilus
		Phylum Echinodermata
		1- Class: Asteroidea Order: Forcipulata
		Ex: Asterius
Week 12		2- Class: Ophiuroidea
week 12		Order : Ophiurae Ex: <i>Ophiura</i>
		3- Class: Echinoidea
		Order: Camarodonta
		Ex: <i>Echinus</i> 4- Class: Holothuroidea
		Order: Aspidochirota

	Ex: Holothuria
	5- Class: Crinoidea
	Ex: Antedon
Week 13	seminar
Week 14	seminar
Week 15	seminar

Learning and Teaching Resources				
	مصادر التعلم والتدريس			
	Text	Available in the Library?		
Required Texts	Verma, P. S. Invertebrate Zoology (Multicolour Edition). S. Chand Publishing, 2001.	no		
Recommended Texts	Moore, Janet. An introduction to the invertebrates. Cambridge University Press, 2001. Brusca, Richard C., and Gary J. Brusca. Invertebrates. No. Ed. 2. Sinauer Associates Incorporated, 2002.	no		
Websites	https://www.northwestinvertebrates.org https://lanwebs.lander.edu	.uk/taxon-group-overviews/ /faculty/rsfox/invertebrates/		

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



Ministry of Higher Education and Scientific Research - Iraq University of Baghdad College of Science Department of Biology



MODULE DESCRIPTION FORM

Module Information معلومات المادة الدر اسية						
Module Title	Entomolo	ogy				Module Delivery
Module Type	Core					
Module Code	BIO23014			⊠ Leo — ⊠Lab		
ECTS Credits	5			□Sem		
SWL (hr/sem)	125	125				
Module Level		2	Semester of Delivery		1	
Administering	Department	Department of Biology	College of		College of Science	
Module Leader		Prof. Dr. Hayder Badri Ali	e-mail		hayder.badri@s	sc.uobaghdad.edu.iq
Module Leader	's Acad. Title	Professor	Modu	Module Leader's Qualification		Ph.D.
Module Tutor	Asst. pr	of. Dr. May Ibrahim Younis	e-mail		may.ibraheem@s	sc.uobaghdad.edu.iq
Peer Reviewer Name		Dr. Jabbar H. Yenzeel	e-mail	jabbar.yenzeel@sc.uobaghdad.ed		sc.uobaghdad.edu.iq
Scientific Committee Approval Date		14/6/2023	Version 1	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			
Module Aims أهداف المادة الدر اسية	Study of the class of Insecta, in general and their Morphology, Anatomy Developments and life histories of insects Relationships and their habits and habitats			
	1- Definition of the taxonomic position of insects			
Module Learning	2- Acquire the skill of collecting and preserving insects			
Outcomes	3- Introducing the general characteristics of the insect class			
Outcomes	4 - Identify the phenotypic characteristics of insects			
	5- Familiarity with the types of insect body appendages			
مخرجات التعلم للمادة الدراسية	6- Familiarity with the internal anatomy and various body systems of insects			
	7 - Identify the taxonomic structure of the insect class.			
	1. Including the scientific names of insects, species descriptions and overviews, taxonomic			
Indicative Contents	orders, and classifications of evolutionary and insects' histories			
	2. Studying the diversity of organisms and the differentiation between extinct and living			
المحتويات الإرشادية	creatures. Biologists study the well-understood relationships between them			
	3. Explaining the biodiversity of the insect's orders. The systematic study is that of conservation			

Learning and Teaching Strategies		
استر اتيجيات التعلم والتعليم		
	Preparation of PowerPoint lectures and the use of the presentation screen, using charts of the	
Strategies	most prominent information from modern sources	

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	63	Structured SWL (h/w) الحمل الدر اسي المنتظم للطالب أسبو عيا	4
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	62	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	4
Total SWL (h/sem) الحمل الدر اسي الكلي للطالب خلال الفصل			25 1

Module Evaluation

تقييم المادة الدراسية

As		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
	Quizzes	5	10% (10)	2,4,6,8,10	L1, L2, L3, L5, L6
Formative	Assignments	1	10% (10)	8	L2 – L6
assessment	Project	1	10% (10)	15	L7
	lab	5	10% (10)	Continuous	All
Summative	Midterm Exam	2 hrs.	10% (10)	7	L1-L5
assessment	Final Exam	hrs. 3	50% (50)	16	All
		Total assessment	100% (100 Marks)		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري Week

Week	Material Covered
Week 1	Introduction in Entomology
Week 2	Basic Insect Morphology / Head, Mouthparts types
Week 3	Head appendage / Antennae
Week 4	Thorax / Thorax appendages / Insect legs / Insect wings
Week 5	Thorax/ Insect wings
Week 6	Insect Abdomen/ Abdomen Appendages
Week 7	Mid Exam
Week 8	Integument (the body wall) and Internal anatomy /Digestive system
Week 9	Internal anatomy: Respiratory system
Week 10	Internal anatomy: Respiratory system
Week 11	Internal anatomy: Nervous system
Week 12	Internal anatomy: Nervous system
Week 13	Internal anatomy: Circulatory system
Week 14	Internal anatomy: Circulatory system and Reproductive system
Week 15	Internal anatomy: Reproductive system
Week 16	Preparatory week before the final Exam

	Delivery Plan (Weekly Lab. Syllabus)
	المنهاج الاسبوعي للمختبر
Week	Material Covered
Week 1	Introductory remarks (Definition of the insect relationships with other Arthropods) Insects Techniques
Week 2	The body parts (head, Antennae (American cockroaches)
Week 3	Antennae, mouth parts) (American cockroaches)
Week 4	(American cockroaches) (thorax, abdomen, sex differentiation)
Week 5	Locust (thorax, abdomen, sex differentiation)
Week 6	American cockroaches (Thorax appendages (legs and wings)
Week 7	Mid Exam.
Week 8	Internal Anatomy: Respiratory and circulatory system, Alimentary canal, digestive glands (American cockroaches)
Week 9	Internal Anatomy: Reproductive system (American cockroaches)
Week 10	Internal Anatomy: nervous system (American cockroaches)
Week 11	Types of mouth parts
Week 12	Types of Antenna
Week 13	Type of the Legs
Week 14	Types of wings, wings venation and wing –coupling apparatus
Week 15	Development and metamorphosis, embryology, development
Week 16	Preparatory week before the final Exam

Learning and Teaching Resources					
	مصادر التعلم والتدريس				
	Text	Available in the Library?			
Required Texts	• Imms outlines of entomology , O.W Richards and R. G. Davies, chapman and hall , 1978				
Recommended Texts	Principle of insect morphology, E.J. Boell , R. E. Snodgrass 1935 new york and london The insects structure and function.				
Websites		table/10.7591/j.ctv1nhm1j.3 doi.org/10.4039/Ent67183-8			

		ـ الدرجات	Grading مخطط	Scheme
Group	Grade	التقدير	Marks (%)	Definition
	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
Success Group (50 - 100)	C - Good	ختر	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	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
(0-49)	F – Fail	راسب	(0-44)	Considerable amount of work required



Ministry of Higher Education and Scientific Research - Iraq University of Baghdad College of Science Department of Biology



MODULE DESCRIPTION FORM

	Module Information معلومات المادة الدراسية	
Module Title	Ecology	Module Delivery
Module Type	Core	⊠ Theory
Module Code	BIO23016	⊠Lab □Seminar
ECTS Credits	5	Бенина

SWL (hr/sem)	125					
Me	odule Level	2		Semo	ester of Delivery	1
Administering I	Department	Department of Biology	College			College of Science
Module Leader		Dr. Ithar Kamil Abbas	e-mail Ithar.Kamil@sc.uobaghdad.edu.iq		sc.uobaghdad.edu.iq	
Module Leader's	Acad. Title	Professor	or Module Leader's Qualification P		Ph.D.	
Module Tutor		Dr. Hind Suhail	e-mail	e-mail Hind.suhail@sc.uobaghdad.edu.iq		
Peer Revi	ewer Name	Dr. Adel M. Rabee	e-mail	e-mail adel.mashaan@sc.uobaghdad.edu.iq		
Scientific Committe	e Approval Date	14/6/2023	Versi	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		
Module Aims أهداف المادة الدراسية	1.Introducing students to the concept of ecology. 2.Ecology and its relationship with other sciences. 3.Explanation and description of variation patterns of environment and the divisions of Ecological systems.	
Module Learning	 The student learns the living and non-living components of an ecosystem The student gets to know the principles of limiting factors and their influence on the distribution and abundance of living organisms The student acquires ecological scientific knowledge (by studying the effect of biotic and thirtie for the grant living in the principles of living and their formation of living and all living and	
Outcomes مخرجات التعلم للمادة الدراسية	abiotic factors, population size, population growth, the formation of groups of living organisms, and the change of population characteristics over time). 4. The student acquires sufficient knowledge about the structure of the living communities of	
	living organisms 5. The student learns biogeochemical cycles and its importance in nutrient and energy cycling in the ecosystem	
	6. The student acquires sufficient knowledge about some kinds of ecosystems	

	7. Developing theoretical and scientific ecological skills for the purpose of conducting ecological
	research (in environmental disciplines).
	1. Ecological systems and what they are (types, description and relationships)
	2.the correlated sciences with Ecology such as chemical ecology, radiation ecology and applied
Indicative Contents	ecology and their relationships, effects with environmental pollution and its danger to human
المحتويات الإرشادية	later.
	3.patterns of population groups distribution and their type of distribution in environment
	(random, regularetc), their density (with all the types of it)etc.

	T . I'M I' C/ / .		
	Learning and Teaching Strategies		
	استراتيجيات التعلم والتعليم		
Strategies	-Ecology is the link to several sciences such as genetics, behavior, physiology and atmospheric science, all of which are useful in how to control the balance and health of the ecosystem. -learning how the ecosystems keep their hemostasis by the relationships and communication through the biogeochemical cycles from hand and the association among the living organism with each other from another hand.		

Student Workload (SWL)			
١ أسبوعا	محسوب له ٥	الحمل الدر اسي للطالب	
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	36	Structured SWL (h/w) الحمل الدر اسي المنتظم للطالب أسبو عيا	4
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	26	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	4
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل			251

Module Evaluation تقييم المادة الدراسية					
	As	Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
	Quizzes	5	10% (10)	2,5, 7,11,13	LO1-LO7
Formative	Assignments	2	10% (10)	4 and 12	LO4-LO6
	Report	1	10% (10)	12	LO7
assessment –	Projects/Lab	5	10% (10)	Continuous	All
Summative	Midterm Exam	2 hr	10% (10)	7	LO1-LO3
assessment	Final Exam	hr 3	50% (50)	1-15	All
	Total assessment 100% (100 Marks)				

	Delivery Plan (Weekly Syllabus)
	المنهاج الاسبوعي النظري
Week	Material Covered
Week 1	Introduction to ecology and ecosystem.
Week 2	Ecosystem structure: Abiotic environment factors
Week 3	The physical factors as limiting factors.
Week 4	Temperature and light, biological clocks
Week 5	Water, Atmospheric gases, currents and pressure.
Week 6	Biotic components of ecosystems
Week 7	Mid-Term exam
Week 8	Population growth models
Week 9	Concept of ecological dominance.
Week 10	Ecosystem function-energy flow through ecosystem
Week 11	Productivity of ecosystem
Week 12	Biogeochemical cycles
Week 13	Sedimentary cycles
Week 14	Ecosystem diversity
Week 15	Lotic and lentic communities.
Week 16	Preparatory week before the final Exam

	Delivery Plan (Weekly Lab. Syllabus)
	المنهاج الاسبوعي للمختبر
Week	Material Covered
Week 1	Principles of biosafety in laboratories
Week 2	Introduction to practical ecology
Week 3	Relative humidity measurement
Week 4	Atmospheric pressure measurement
Week 5	Instruments and devices used for different purposes -1
Week 6	Instruments and devices used for different purposes -2

Week 7	Mid-Term Exam
Week 8	Turbidity and nephelometer
Week 9	Sampling in ecology
Week 10	Animal populations sampling
Week 11	Soil sampling and textures
Week 12	Measurement of productivity -1
Week 13	Measurement of productivity -2
Week 14	Solar soil sterilization
Week 15	Free lecture for discussion
Week 16	Preparation work before the final examination

	Learning and Teaching Resources	
	مصادر التعلم والتدريس	
	Text	Available in the Library?
Required Texts	Fundamentals of Ecology –Odum	yes
Recommended Texts	Ecology and pollution –Dr.Hussain Ali Al-Saadi	yes
Websites	https://www.amazon.com/Fundamentals-Ecology-Eu	gene-Odum/dp/0534420664

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



Ministry of Higher Education and Scientific Research - Iraq University of Baghdad College of Science Department of Biology



MODULE DESCRIPTION FORM

	Module Information معلومات المادة الدراسية					
Module Title	Mycology					Module Delivery
Module Type	Core					
Module Code	BIO23018			⊠ Lee ■ ⊠Lab		
ECTS Credits	4				,	
SWL (hr/sem)	100					
	Module Level	2		Semo	ester of Delivery	1
Administ	ering Department	Department of Biology	College	College of Scie		College of Science
Module Leader		Rusol Mohammed Jasim	e-mail		Rusol.Jasim@s	sc.uobaghdad.edu.iq
Module Le	ader's Acad. Title	Professor	Modu	le Leade	r's Qualification	Ph.D.
Module Tutor	Asst. Prof. Dr. Alaa Mohsin Yaseen Al-Araji e-mail alaraji.alaa@sc.uobaghda		c.uobaghdad.edu.iq			
Pec	er Reviewer Name	Dr. IsraaAbdul Razzaq Aldobaissi	e-mail		israa.aldobaissi@s	sc.uobaghdad.edu.iq
Scientific Committee Approval Date		14/6/2023	Version 1	Number		1.0

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

Module	Module Aims, Learning Outcomes and Indicative Contents					
	أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية					
Module Aims أهداف المادة الدر اسية	 Providing a broad understanding of fungi, emphasizing the most important species of pathogenic fungus for plants and humans. Defining the student how to classify and diagnose fungi. Explain the fungi's life cycle. Studying its epidemiology and different control methods. Studying some pathogenic fungi for humans, symptoms, causes, and treatment of infection. 					
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	 Knowledge of the basics of fungi, especially those that are pathogenic to plants and humans, and methods of diagnosis. Understanding the pathogenicity mechanisms and how they occur. Learning methods of combating fungi that cause plant diseases in Iraq to avoid crop losses and prevention methods. Learn to grow fungi on culture media in the laboratory, deal with them, and diagnose fungi morphologically. Learning to diagnose disease symptoms resulting from infection with fungi, whether of plants, humans, or animals and the ways to prevent infection with fungus and ways to treat it 					
Indicative Contents المحتويات الإرشادية	The module will begin with a brief introduction outlining the module's goals, content, evaluation criteria, and learning outcomes. The module material is divided into themes, offering the key pathways driving pathogenesis. In this context, we will also examine how such knowledge might , prevention, and treatment. Laboratory sessions of a 2-hour fungi, pathogens help diagnose duration will give active practice in various fungal methodologies in tandem with lecture topics.					

	Learning and Teaching Strategies			
استر اتيجيات التعلم والتعليم				
	This module's contact teaching will be conducted through lecturing (15 lectures) and compulsory			
Strategies	Strategies 15 practical sessions, which include learning videos and scientific animations. Students will be			
	invited to participate in interactive discussions throughout this program.			

Student Workload (SWL)				
الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا				
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	36	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبو عيا	4	
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	73	Unstructured SWL (h/w) الحمل الدر اسي غير المنتظم للطالب أسبو عيا	2.5	
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل			100	

	Module Evaluation					
	تقييم المادة الدراسية					
	As Time/Number Weight (Marks) Week Due Relevant Learning Outcome					
	Quizzes	5	10% (10)	3,6,9,11,13	LO1-LO5	
Formative	Assignments	2	10% (10)	8 and 12	5LO4-LO	
assessment	Report	2	10% (10)	6 and 10	LO3-LO5	
	Projects/Lab	10	10% (10)	Continuous	All	
Summative	Midterm Exam	2 hr	10% (10)	7	LO1-LO3	
assessment	Final Exam	hr 3	50% (50)	16	All	
	Total assessment					

	Delivery Plan (Weekly Syllabus)				
	المنهاج الاسبوعي النظري				
Week	Material Covered				
Week 1	Defining fungi, their benefits, and harms				
Week 2	Fungal reproduction, methods of feeding them, and culture media for fungi				
Week 3	Classification of fungi: Division 1: Myxomycota.				
Week 4	Division 2: Eumycota; Sub-division 1:- Mastigomycotina:				
	Class 1: Chytridiomycetes; Class 2: Hypochytridiomycetes				
Week 5	Class 3: Oomycetes:				
Week 6	Sub-division 2: Zygomycotina:- Class 1: Zygomycetes				
Week 7	Mid-Term Exam				
Week 8	Sub-division 3: Ascomycotina: - Class 1: Hemiascomycetes;				

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Week 9	Class 2: Plectomycetes; Class 3: Pyrenomycetes:-
Week 10	Class 4: Discomycetes; Class 5: Loculoascomycetes
Week 11	Sub-division 4: Basidiomycotina:- Class 1: Teliomycetes:
Week 12	Class 2: Hymenomycetes; Class 3: Gasteromycetes:
Week 13	Sub-division 5: Deutrromycotina:- Class 1: Hyphomycetes; Class 2: Coelomycetes
Week 14	Medical mycology: Fungal Pathogenicity; Clinical groupings for fungal infections
Week 15	Diagnosis of Systemic Mycoses
Week 16	Preparatory week before the Final Exam

	Delivery Plan (Weekly Lab. Syllabus)				
المنهاج الاسبوعي للمختبر					
Week	Material Covered				
Week 1	Introduction to fungi and their morphology				
Week 2	Preparation of PDA; Fungi Isolation Methods				
Week 3	Division 1: Myxomycota 1. Class: Myxomycetes 1) Sub-class: Ceratiomyxomycetidae:- Order: Ceratiomyxales:- ex : Ceratiomyxa 2) Sub-class : Myxogastromycetidae:- Order: Trichiales:- ex: Arcyria, ex : Hemitrichia Order: Stemonitales:- ex: Stemonitis, ex : Diachea Order: Physarales:- ex: Physarum, ex : Didymium 2. Class: Plasmodiophoromycetes:- Order: Plasmodiophorales 1. ex: Plasmodiophora brassicae Causes: Club-root disease in Cruciferae) C.S. in host tissue showing resting spores and plasmodium. 2. ex: Spongospora subterranea Causes: powder scab of potato) C.S. in host tissue showing spore balls.				
Week 4	Division 2: Eumycota Subdivision 1: Mastigomycotina 1. Chytridiomycetes:- Order: Chytridiales:- Family: Synchytriaceae Ex: Synchytrium endobioticum Lead of the see sorus, prosorus, germinating prosours, resting spores Order: Blastocladiales:- Ex: Allomyces Sporoth allus (zoosporangium, resting sporangium) Gametothallus (male and female gametangium)				

	2. Class: Oomycetes: - Order: Saprolegniales:- Family : Saprolegniaceae
	Ex: Saprolegnia parasitica (Water mold).
	We see: (Asexual reproduction): sporangium, gemmae bodies, internal proliferation
	(Sexual reproduction): oogonium, antheridium.
	Order: Peronosporales: - Family 1: Pythiaceae
	Ex: Phytophthora infestens (Cause: the late blight of potato and tomato)
	 (Cause: the late blight of potato and tomato) We see: lemon shape sporangium and sporangiophore
Week 5	Ex: Pythium debaryanum
WEEK 5	Cause: damping off seedlings)
	We see Sporangium, oogonium, oosphere, and oospore.
	Family 1. Denon concessor. Ev. Banan con and (Causes daymy milday, on nodich)
	Family 2: Peronosporaceae:- Ex: <i>Peronospora spp.</i> (Cause: downy mildew on radish) Ex: <i>Plasmopara viticola</i> (Cause: downy mildew on grape)
	Ex: Bremia lattucae (Cause: downy mildew on lettuce)
	We see sporangium and sporangiophore.
	Family 3: Albuginaceae:- Ex: Albugo candida (Cause: white rust on Crucifers)
	We see Conidia, conidiophore, oogonium, and antheridium.
	Sub-division 2: Zygomycotina:- Class 1: Zygomycetes
	Order 1: Mucorales
	Ex: Rhizopus spp (Bread mold)
***	We see: Sporangium, Rhizoid, stolon, sexual reproduction, Zygospore, (young & mature)
Week 6	Ex: Mucor spp
	We see: Sporangium, sexual reproduction,, Zygospore,, (young & mature)
	Order 2: Entomophthorales
	Ex: Entomophthora muscae
*** 1.7	We see Conidia and conidiophore.
Week 7	Mid-Term exam
	Sub-division 3: Ascomycotina
	Fruiting bodies 1. naked asci Taphrina deformans
	2. Cleistothecium Aspergillus sp.
	3. Perithecium Claviceps
	4. Apothecium Sclerotinia
	5. Ascostroma (Pseudothecium) Venturia
	Class 1: Hemiascomycetes (naked asci)
Week 8	Order 1: Endomycetales:- Family 1: Endomycetaceae
VV CCII O	Ex: Schizosaccaharomyces octosporus
	We see ascus (8) ascospores & asexual rep. (fission cell)
	Family 2: Saccharomycetaceae
	Ex: Saccharomyces cerevisiae
	We see Budding, ascus (4) ascospores.
	Order 2: Taphrinales
	Ex: Taphrina deformans (causes: Peach Leaf curl disease)
	We see ascus with ascospores.
	Subdivision 3: Ascomycotina:- Class 2: Plectomycetes
	Order 1: Eurotiales:- Family: Eurotiaceae
Week 9	Ex: Aspergillus We see sexual rep. (cleistothecium ascocarp) & asexual rep.
	Ex: <i>Penicillium</i> We see asexual rep.

	Ex: Erysiphe We see Cleistothecium with many asci and myceloid appendages
	Ex: Sphaerotheca We see Cleistothecium with one ascus and myceloid appendages
	Ex: Microsphaera We see Cleistothecium with many asci and Dichotomous appendages
	Ex: <i>Podosphaera</i> We see Cleistothecium with one ascus and Dichotomous appendages
	Ex: <i>Uncinulla</i> We see Cleistothecium with many asci and Hook-shaped appendages
	Ex: <i>Phyllactinia</i> We see Cleistothecium with many asci and Bulbous appendages
	Family 1: Claviceptaceae Class 3: Pyrenomycetes:- Order1: Hypocreales
	Ex: Claviceps purpurea
	Class 4: Discomycetes:-
	A. Epigean inoperculate discomycetes Order: Helotiales:- Family: Sclerotinaceae
	Ex: Sclerotinia (<i>Monilinia</i>) fructicola causes the brown rot of peach and other stone fruits.
	We see the conidial stage, Apothecium, mummified fruit
	Order: Phacidiales:- Family: Phacidiaceae
	Ex: <i>Rhytisma acerinum</i> causes Tar spot of maple; We see Apothecium + Tar like stroma
	Order: Lecanorales (Lichen)
Week 10	Ex: Xanthoria; We see ascus + ascospore, fungal hyphae
VV CCR 10	B. Epigean operculate discomycetes: Ordre 2: Pezizales:- Family 1 : Pezizaceae:
	Ex: Peziza spp.; We see external feature, Apothecium, operculate asci
	Family 2: - Morchellaceae
	Ex: Morchella; We see external feature, Apothecium
	Group 2: Hypogean: which is present under the surface of soil.
	Order 3: Tuberales Ex: Terfezia; We see external feature, ascus + ascospore
	Class 5: Loculoascomycetes:- Order: Pleosporales:- Family: Venturiaceae
	Ex: Venturia inaequalis; We see Ascostroma, conidial stage
	Sub-division 4: Basidiomycotina
	Class 1: Teliomycetes :- Order 1 : Termellales Ex: Auricularia
	Order 2: Uridinales (Rust fungi):- Family 1: Puccinaceae
	Ex: Puccinia graminis causes Rust on graminia
	We see Uridial stage (2); Telial stage (3); Promycelium (4); Spermgaonia (0); Aecial stage (1).
	Ex: Gymnosporangium causes Rust on Juniper
	We see Aecial and Telial stages and infected plant
	Ex: <i>Phragmidium</i> causes Rust on Rose; We see the Telial stage and infected plant
Week 11	Ex: Uromyces fabae causes Rust on Vicia fabae; We see Telial stage and infected plant
	Family 2: Melampsoraceae
	Ex: Melampsora causes Rust on Euphorbia; We see infected plant
	Order 3: Ustilaginals (Sumt fungi):- Family 1: Ustilaginaceae
	Ex: Ustilago hordei causes Covered Smut of Barley; We see Teliospores and infected plant
	Ex: Ustilago nuda causes Loose Smut of Wheat; We see Teliospores and infected plant
	Family 2: Tilletiaceae
	Ex: Tilletia foetida and Tilletia caries cause Bunt Smut of Wheat.
	We see Teliospores and infected plants.
	1

	Ex: Urocystis agropyri and Urocystis cepulae cause Flag Smut of Wheat				
	We see Teliospores and infected plants.				
	Class 2: Hymenomycetes:- Order 1: Agaricales:- Family1: Agaricaceae				
	Ex: Agaricus bisporus; we see external feature (White color)				
	Ex: Agaricus campestris we see an external feature (Brown color)				
	Ex: Agaricus xanthodermus (Yellow staining fungus)				
	Ex: <i>Inocybe</i> (Red staining fungus); Ex: <i>Coprinus</i> (Black liquid like ink)				
	Ex: Amanita muscaria Its scales are red in color and called fly fungus				
	Order 2: Polyporales:- Family1: Polyporaceae				
	Ex: Polyporus (Pore fungi) we see external feature				
Week 12	Family 2: Clavariaceae Ex: Clavaria (Coral fungi) we see an external feature.				
	Family 3: Telephoraceae Ex: Sternum (Shelf fungi) We see an external feature.				
	Family 4: Hydnaceae Ex: Hydnum (Tooth fungi) We see an external feature.				
	Class 3: Gasteromycetes:- Order 1: Lycoperdales				
	Family1: Lycoperdaceae Ex: Lycoperdon (Puff ball)				
	Family2: Gasteraceae Ex: Gasterum (Earth star)				
	Order 2: Nidulariales Ex: <i>Cyathus</i> (Bird's nest)				
	Order 3: Hymenogasterales Ex: <i>Podaxis</i>				
	Subdivision 5: Deutrromycotina:-				
	Class 1 : Hyphomycetes:- Order 1: Moniliales				
	Family 1: Moniliaceae:- Ex: Candida albicans (cause Candidiasis of skin and nail)				
	We see budding, Blstospore, Chlamydospore				
	Ex: Botrytis fabae cause a chocolate spot of bean. We see septate mycelium, conidia				
	Family 2: Dematiaceae				
	Ex: <i>Alternaria solani</i> cause Early blight of tomato; We see conidia Ex: Helmenthosporium cause Leaf blotch of gramines; We see conidiophore, conidia				
	Ex: Cladosporium cause Leaf Spot of Spinach; We see septate mycelium, conidia (small one cell, two cells)				
Week 13	Family 3: Tuberculariaceae				
	Ex: Fusarium oxysporum (Fusarium wilt); We see types of conidia (macroconidia and microconidia)				
	Order 2: Myceliasterial (Agonomycetales)				
	Ex: Rhizoctonia solani (cause Damping off disease) We see mycelium without conidia				
	Class 2: Coelomycetes: - Order 1: Sphaeropsidales:- Family: Sphaeropsidaceae				
	Ex: Septoria apii (cause late blight disease on celery) we see conidiophores arise inside pycnidia				
	Order 2: Melanconiales:- Family: Melanconiaceae				
	Ex: Colletotrichum lindemuthianum (cause Anthracnose of beans)				
	We see conidiophores arise inside acervulus				
	-				

	<i>A</i> .	SKIN MYCOLOGY
	1.	The Superficial Mycoses
		Ex: Malassezia furfur cause Pityriasis (tinea) versicolor
	2.	The Cutaneous Mycoses:- Dermatophyte Species:- Ex: Trichophyton spp.; ex: Microsporum spp.
Week 14	3.	The Subcutaneous Mycoses: Ex: Sporothrix schenckii cause Sporotrichosis
		Ex: Actinomadura spp. cause Mycetoma
	B.	INFECTIOUS DISEASE MYCOLOGY
	1.	Dimorphic Systemic Mycoses: - Ex: Histoplasma capsulatum cause Histoplasmosis
	2.	Opportunistic Systemic Mycoses: - Ex: Candida and Cryptococcus
		Diagnosis of Systemic Mycoses
Wools 15		Laboratory Specimen Processing
Week 15		Ex: - Candida spp.; Ex: - Cryptococcus spp.;
		Ex: - Rhizopus spp. ; Ex: - Aspergillus spp.
Week 16		Preparatory week before the final Exam

Learning and Teaching Resources مصادر التعلم والتدريس					
Text Availa Lib					
Required Texts	Required Texts Webster, J. and Weber, R. (2007). Introduction to fungi. 3 ^{rd.} ed. Cambridge.				
Recommended Texts	Alexopoulos, J.; Mims, C. W. and Blackwell, M. M. (1996). Introductory Mycology. 4th ed. John Wiley. New York.				
Websites	 Mycology journal (https://drfungus.org/ 	rent)			

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



Ministry of Higher Education and Scientific Research - Iraq University of Baghdad College of Science Department of Biology



MODULE DESCRIPTION FORM

Module Information معلومات المادة الدراسية						
Module Title	Plant a	natomy				Module Delivery
Module Type	Core					
Module Code	BIO2311	.7		□ ⊠Lec □ ⊠Lal	⊠Lecture	
ECTS Credits	4			□ Seminar		
SWL (hr/sem)	100					
Mod	lule Level	2	Semester of Delivery		1	
Administering De	partment	Department of Biology	College		College of Science	
Module Leader		Dr. Nemat Jameel Al-Judy	e-mail		nemataljudy@gmail.com	
Module Leader's Acad. Title		Professor	Module Leader's Qualification		Ph.D.	
Module Tutor		Dr. Sukeyna Abaas Aliwy	e-mail Sukeyna.abaas@s		sc.uobaghdad.edu.iq	
Peer Reviewer Name		Dr. Israa Abdul Razzaq Aldobaissi	e-mail <u>Israa.aldobaissi@s</u>		sc.uobaghdad.edu.iq	
Scientific Committee Approval Date		14/6/2023	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						
Module Aims	1. recognize the plant cell wall and its pits.					
أهداف المادة الدر اسية	2- recognize the properties of living and non living cell component.					
<u></u>	3- identifying the properties of each tissues in different plant body.					
	4- recognize the difference between monocot and diocot plant sections.					
	1- experience in recognizing the properties of plant cell wall and its living and					
Module Learning	nonliving component.					
Outcomes	2- experience in identification of different ground and dermal tissues.					
	3- experience in recognizing the propertied in vascular tissues.					
مخرجات التعلم للمادة الدراسية	4- experience in identification the plant group according to the properties of					
	different tissues.					
	The plant anatomy module is designed to recognize the plant cell wall and its					
	pits, the properties of living and non living cell component as well as the					
Indicative Contents	properties of each tissues in different plant body, in addition to identify the					
المحتويات الإرشادية	difference between Monocotyledonand Dicotyledon plant sections. and these					
المحلويات الإرسادية	aims increase the student skill in recognizing the properties and difference in					
	these tissue betweendifferent plants in addition to identification the plant group					
	according to the properties of different tissues.					

Learning and Teaching Strategies					
استر اتيجيات التعلم والتعليم					
	The plant anatomy strategies is aimed to identified the internal structure of plant				
Strategies	body by using different theoretical and laboratory skills to create student				
	knowledge can be used in different scientific specialties and researches.				

Student Workload (SWL)					
الحمل الدراسي للطالب محسوب لـ ١٥ أسبوعا					
Structured SWL (h/sem)	63	Structured SWL (h/w)	4		
الحمل الدراسي المنتظم للطالب خلال الفصل	0.5	الحمل الدر اسي المنتظم للطالب أسبو عيا			

Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	37	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	2.5
Total SWL (h/sem) الحمل الدر اسي الكلي للطالب خلال الفصل			001

Module Evaluation

تقييم المادة الدراسية

As		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
	Quizzes	2	10% (10)	4,5	Lo 1
Formative	Assignments	2	10% (10)	10 th ,11 th	Lo 2
assessment	Projects / Lab.	5	10% (10)	continuous	All
	Report	2	10% (10)	14, 15	All
Summative	Midterm Exam	2 hr.	10% (10)	7	Lo 1, 2
assessment	Final Exam	hr. 3	50% (50)	16	All
Total assess		Total assessment	100% (100 Marks)		

Delivery Plan (Weekly Syllabus)

	المنهاج الاسبوعي النظري
Week	Material Covered
Week 1	Plant cell wall
Week 2	pits
Week 3	Cell living and non living content
Week 4	Reviewing and quiz
Week 5	Meristematic tissue
Week 6	Epidermal tissue
Week 7	Mid. exam
Week 8	Parenchyma tissue and collenchyma tissue
Week 9	Sclerenchyma tissue
Week 10	Xylem tissue Assignment
Week 11	Phloem tissue
Week 12	Secondary growth report1
Week 13	Dicot stem

Monocot stemreport2	Week 14
Preparatory week before the final Exam	Week 15
final Exam	Week 16

	Delivery Plan (Weekly Lab. Syllabus)
	المنهاج الاسبوعي للمختبر
Week	Material Covered
Week 1	Plant cell wall and intercellular space
Week 2	PitsProject 1
Week 3	Cell living content and non livingcontentProject 2
Week 4	Meristematic tissueProject 3
Week 5	Reviewing & quiz
Week 6	Epidermal tissue
Week 7	Mid 1
Week 8	Parenchyma tissue and collenchyma tissue
Week 9	Sclerenchyma tissue
Week 10	Xylem tissue Project 4
Week 11	Assignment
Week 12	Phloem tissue
Week 13	Secondary growthProject 5
Week 14	Dicot stem and Monocot stemReport 1
Week 15	Report 2 and Preparatory week before the final Exam
Week 16	final Exam

Learning and Teaching Resources مصادر التعلم والتدريس				
	Text	Available in the Library?		
Required Texts	- كتاب التشريح العام – Plant anatomy 2ed - كتاب التشريح العملي	yes		
Recommended Texts	 Ash, A.; L.J. Hickey; P. Wilf; B. Ellis; K. Johnson and S. Wing. 1999. Manual of Leaf architecture Morphological description and categorization of Dicotyledonous and net-veined Monocotyledonous angiosperms. Leaf architecture working Group, Smithsonian Institution, 65 pp Carpenter, K. J. 2006. Specialized structures in the leaf epidermis of basal Angiosperms morphology, distribution, and homology. Amer. J. Bot. 93(5):665-681. Fahn, A. 1974. Plant anatomy 2end ed. Pergamon press, New York. USA 	Some of them		
Websites		Research gate Google scholar Academia		

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

Fail Group	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
(0-49)	F – Fail	راسب	(0-44)	Considerable amount of work required



Ministry of Higher Education and
Scientific Research - Iraq
University of Baghdad
College of Science
Department of Remote Sensing and GIS



MODULE DESCRIPTION FORM

	Module Information معلومات المادة الدراسية				
Module Title	Baath Regime Crimes in Iraq جرائم نظام البعث في العراق	Module Delivery			
Module Type	Support	☑ Theory			
Module Code	UOB105	☐ Lecture ☐ Lab			
ECTS Credits	2	☐ Tutorial			

SWL (hr/sem)			50		nctical minar	
	Module Level	2UGx11	Semes		ster of Delivery	1
Administeri	ng Department	Department of Biology	Colleg e	College of Science		College of Science
Module Leader	Dr. I	Mohanad Ahmed Yaseen	e-mail	il mohannad.ahmed@sc.uobaghdad.edu.i		uobaghdad.edu.iq
Module Lead	er's Acad. Title	Lecturer	Modul	e Leader	's Qualification	Ph.D.
Module Tutor	Dr. I	Mohanad Ahmed Yaseen	e-mail	mohan	nad.ahmed@sc.	uobaghdad.edu.iq
Peer Reviewer Name		Dr. Farah Diea Hussain Mubarak	e-mail E-mail Farah@co		policy.uobaghdad	
Scientific Comm	nittee Approval Date	13/09/2023		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				
Module Objectives أهداف المادة الدراسية	-1ان الأجيال الحالية لم تعيش فترة الدكتاتورية والكثير منهم لايعرف معاناة الشعب والجرائم التي ارتكبها النظام المقبور2بيان مدى سوء حكم النظام الشمولي والذي لم يقتصر فقط على داخل العراق بل على دول المجاور له -3بيان مدى سوء حكم النظام الشمولي والذي لم يقتصر فقط على داخل العراق بل على دول المجاور له -4باظهار الاضرار الاقتصادية والاجتماعية والتنموية التي أحدثها النظام السابق5بيان مدى وحشية النظام البائد والإعدامات الجماعية6بيان الاساليب القمعية التي مارسها النظام البائد والتهجير القصري7كبح الحريات العامة وتدهور مستوى الاعلام والثقافة8توضيح الأضرار البيئية والزراعية التي ظهرت آثارها في السنوات السابقة والحالية9بيان مدى سوء حكم النظام الشمولي والذي لم يقتصر فقط على داخل العراق بل على دول المجاورة ايضا10 ان الهدف من تدريس هذه المادة لمعرفة تاريخ تلك الحقبة السوداء11 الهدف من هذه المادة ان الحكم في العراق لن يدوم باستخدام أدوات العنف والقوة مهما كانت مفرطة والعراق يجب ان يحكم بنظام سياسي يحترم العراقبين ومعتقدات ودياناتهم وقومياتهم وان يؤمن بالتعدد في المجتمع العراقي				

-1التعرف على الجرائم النظام البائد في كبح الحريات العامة -2در اسة الانظمة السياسية في العراق نبذة تاريخية -3معرفة ابرز انتهاكات النظام البعثي للحقوق والحريات -4معرفة اثر سلوكيات النظام البعثي المقبور على المجتمع العراقي -5 التوضيح للاجيال الحالية حقيقة حقبة تاريخية سوداء في تأريخ العراق المعاصر التي شهدت الظلم والاستبداد **Module Learning** -6الاطلاع على وحشية واستبداد وقمع النظام البائد للشعب العراقي **Outcomes** -7معرفة ان الظلم والاستبداد والحكم الدكتاتوري لن يدوم مهما كانت قسوته - العلية وارشادهم على النظام السياسي الصحيح لحكم هذا الشعب الطيب. والذي يجب ان يبتعد عن مخرجات التعلم للمادة الدراسية الدكتاتورية والظلموان يكون مبنى على العدالة واحترام التعددية الدينية والمذهبية والقومية - 9 توعية الطلبة الى حجم الدمار والتلوث البيئي الذي احدثته الحروب واستخدام اسلحة محرمة دوليا -10بيان مدى قسوة النظام البعثي وقمعه للشعب والمقابر الجماعية التي ضمت رفاة آلاف الشهداء الأبرياء -11توعية الطلبة الى ماقام به النظام السابق من تهجير ابناء هذا البلد وكفائته العلمية والادبية يتضمن المحتوى الإرشادي ما يلي: مقدمة في البداية تتضمن نبذة تاريخية عن النظام السياسي في العراق من قبل بريطانيا وصولاً الىوصول حزب البعث المقبور الى السلطة وكذلك دراسة جرايم حزب البعث منذ توليه السلطة والعبث بها كذلك توضيح ما اصاب العراق من اثار وكوارث على يد هذا النظام الدكتاتوري المجرم الذي جسد اقسى انواع التعسف والظلم والطغيان والاستبداد كذلك ارشاد الطلبة الى ان الظلم والاستبداد يدمر الشعوب ويجر الويلات عليها وبيان الاثار التي حدثت **Indicative Contents** نتيجة الحروب العبثية التي خلفت ورائها تدمير في كل مفاصل البلاد فدمرت البني التحتية والتربة والمياه والسماء المحتويات الإرشادية والاشجار وكل شئ في هذه البلاد والتي كانت من افضل بلدان الشرق الاوسط كذلك تم تدمير حتى البيئة المائية من خلال تسريب النفط في حرب الكويت والخسائر الاقتصادية الهائلة وتضرر الابار النفطية والبني التحتية والصناعة وفرض حصار دمر البيئة الاجتماعية والاقتصادية التي لازلنا الى يومنا هذا نرفع اثار النظام البائد على الصعيد الدولي والداخلي.

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies

الإستراتيجية المهمة التي تم تبنيها في هذه الوحدة هي توعية الطلبة وعملية تنمية مداركهم العقلية على فهم النظام السياسي العراقي البائد ومعرفة الجرائم التي ارتكبها النظام البائد وعمليه تحفيز الطلبة على التامل والتفكير في السياسي العراقي البائد ومعرفة الجرائم والعمل على محاربة الظلم ولاستبداد ورفض اي شكل من اشكال الدكتاتورية كذلك استخدام البرامج التفاعلية والتعليمية في استخدام الادوات التحليلية والنقدية وتشجيع الطلبة على البحث والحوار والنقاش على اسس معرفية تستند الى عمليات البحث العلمي والتدقيق والقراءة العميقة والفهم الجيد والرصانة العلمية وكذلك استخدام الوسائل العلمية والاساليب التفاعلية سواء كانت المسموعة والمرئية واعطاء والرصانة الواضحة على وحشية النظام السابق لكي يطلع الطلبة وتصبح لديهم قناعة علمية راسخة على هذة الادلة المادية الواضحة الكرية لدى الطلبة على الحقبة السوداء والجرائم التي لم تشهد لها البشرية مثال كذلك تنمية القررة الذهنية والفكرية لدى الطلبة على معرفة الأنظمة الصالحة. كذلك تفعيل الدور الأخلاقي وزرع الأخلاق والقيم والمبادئ الحميدة لدى الطارة

Student Workload (SWL) الحمل الدر اسي للطالب محسوب لـ ١٥ أسبو عا					
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	Structured SWL (h/w) 2.2				
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	17 1 17				
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	50				

Module Evaluation تقييم المادة الدراسية						
		Time/Number	Weight (Marks)	Week Due	Relevant Learning	
	As		3 3 4 3 37		Outcome	
	Quizzes	2	10% (10)	5 and 10	LO #1, #2 and #10, #11	
Formative assessment	Assignments	5	10% (10)	2,3,6,8,10	LO #3, #4 and #6, #7	
	Attending	1	10% (10)	Continuous	All	
	lectures	1 10% (10)		Continuous	All	
	Report	1	10% (10)	13	LO #5, #8 and #10	
Summative	Midterm Exam	1hr:	10% (10)	8	LO #1 - #7	
assessment	Final Exam	3hr	50% (50)	14	All	
	Total assessment					

	Delivery Plan (Weekly Syllabus)
	المنهاج الاسبوعي النظري
Week	Material Covered
Week 1	مقدمة عن انتهاكات الحقوق والحريات
Week 2	نبذة وصفية عن الانظمة السياسية في العراق
Week 3	انتهاكات النظام البعثي للحقوق والحريات العامة
Week 4	اثر سلوكيات النظام البعثي في المجتمع وتسلطه على الدولة

Week 5	اثر المرحلة الانتقالية في محاربة السياسة الاستبدادية
Week 6	الميدان النفسي والاجتماعي
Week 7	الدين والدولة
Week 8	Mid Exam
Week 9	عسكرة المجتمع والثقافة والاعلام
Week 10	اثر القمع والحروب على البيئة والسكان
Week 11	التلوث البيئي واستعمال الاسلحة المحرمة دوليا
Week 12	سياسة الارض المحروقة وتجفيف الاهوار
Week 13	المقابر الجماعية وتدمير البيئة الزراعية
Week 14	Mid Exam

Learning and Teaching Resources				
مصادر التعلم والتدريس				
	Text	Available in the Library?		
Required Texts	منهاج جرائم حزب البعث البائد 2023/جمهورية العراق/وزارة التعليم العالي و البحث العلمي/دائرة الدراسات والتخطيط			
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	ختر	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	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
(0 – 49)	F – Fail	راسب	(0-44)	Considerable amount of work required

Second Stage: Level 4



Ministry of Higher Education and Scientific Research - Iraq University of Baghdad College of Science Department of Biology



MODULE DESCRIPTION FORM

Module Information							
معلومات المادة الدراسية Module Title Protozoan Parasitology Module Deliver					Module Delivery		
Wiodule Title	Protozoan Parasitology					Module Denvery	
Module Type	Core				⊠ Lecture - ⊠Lab.		
Module Code	BIO24120						
ECTS Credits	6						
SWL (hr/sem)	150						
Module Level		UGx11 2		Semester of Delivery		2	
Administer	ring Department	Biology	College		Science		
Module Leader		Dr. Khawla Hori Zghair e-mail			Khawla.hoori@sc.uobaghdad.edu.iq		
Module Lead	Module Leader's Acad. Title		Modu	le Leade	r's Qualification	Ph.D.	
Module Tutor	Dr. Hayder Zuhair Ali		e-mail		hayder.zuhair@sc.uobaghdad.edu.i		
Peer Reviewer Name Dr. Hayder Badri Ali		e-mail		Hayder.badri@sc.uobaghdad.edu.ic			
Scientific Committee Approval Date 14/6/2023			Version I	Number 1.0			

Relation with other Modules العلاقة مع المواد الدراسية الأخرى Prerequisite module Invertebrates Semester 1 Co-requisites module None Semester

Module Aims, Learning Outcomes and Indicative Contents					
	أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية				
Module Aims أهداف المادة الدراسية	 Providing a broad understanding and diagnosing the most important species of pathogenic and non-pathogenic parasites that parasitize humans and its domestic animals. Explaining the stages of the parasite and its life cycle. Demonstrating how to diagnose the parasite and its epidemiology. Outlining control modalities and different types of treatment. 				
Module Learning Outcomes مخرجات التعلم للمادة الدر اسية	By the end of the module, it is expected that the student will be able to: 1. Identify the parasites and how to diagnose them microscopically. 2. Knowing the anatomical drawing of the parasite and mark its important parts. 3. Urge the students to collect samples for parasite detection. 4. Urge the student to think deductively and differentiate between parasites that differ in appearance, location of infection and type of reproduction. 5. Guiding the student and developing the desire to specialize in the field of biological laboratories.				
Indicative Contents المحتويات الإرشادية	The module will begin with a brief introduction outlining the module's goals, content, and evaluation criteria, as well as the learning outcomes. Following that, the module material is divided into separate themes, offering the key pathways that drive parasitic infection. In this context, we will also examine how such knowledge might help with parasitic pathogen diagnosis, prevention, and treatment. Laboratory sessions of 2-hours duration will give active practice in a variety of parasitic methodologies in tandem with lecture topics. Moreover, directing the student to spread the healthy culture in his environment.				

Learning and Teaching Strategies				
	استر اتيجيات التعلم و التعليم			
Strategies	This module's contact teaching will be conducted through lecturing (15 lectures) and compulsory 15 practical sessions 1. Preparing a Power Point lecture and using the Data Show in its presentation. 2. Using modern sources from the information network to obtain accurate information and graphics.			
	3. Students will be invited to participate in interactive discussion throughout this program.			

Student Work load (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ أسبوعا					
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	64	Structured SWL (h/w) الحمل الدر اسي المنتظم للطالب أسبو عيا	4		
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	86	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبو عيا	6		
Total SWL (h/sem) الحمل الدر اسي الكلي للطالب خلال الفصل			150		

	Module Evaluation						
	تقييم المادة الدراسية						
	Time/Number Weight (Marks) Week Due Relevant Learning						
	As	1 mic/1 tumber	Weight (Warks)	WEEK Due	Outcome		
	Quizzes	5	10%	2-6, 8-12	LO1-LO4		
Formative	Assignments	2	10%	8 and 12	LO4-LO6		
assessment	Report	1	10%	13	LO7		
	Projects/Lab	5	10%	Continuous	All		
Summative	Midterm Exam	2 hr	10% (10)	8	LO1-LO3		
assessment	Final Exam	hr 3	50% (50)	1-15	All		
		Total assessment	100% (100 Marks)				

	Delivery Plan (Weekly Syllabus)				
	المنهاج الاسبوعي النظري				
Week	Material Covered				
Week 1	Introduction to Parasitology and importance of pathogenic parasites				
Week 2	Classification of parasites, Taxonomical categories				
Week 3	Phylum Protozoa: Sarcodina (Entameba histolytica, Entameba coli)				
Week 4	Phylum Protozoa: Sarcodina (Endolimax nana, Iodameba butchlii, Entamoeba gingivalis)				
Week 5	Phylum Protozoa: Ciliata				
Week 6	Phylum Protozoa: Intestinal Flagellate				
Week 7	Phylum Protozoa: Tissue Flagellate				

Week 8	Mid-term Exam
Week 9	Phylum Protozoa: Hemoflagellate (<i>Leishmania spp.</i>)
Week 10	Phylum Protozoa: Hemoflagellate (<i>Trypanosoma spp.</i>)
Week 11	Phylum Protozoa: Apicomplexa (<i>Plasmodium spp.</i>)
Week 12	Phylum Protozoa: Apicomplexa (Toxoplasma, Isospora)
Week 13	Phylum Protozoa: Apicomplexa (Cryptosporidum, Cyclospora and Sarcocystis)
Week 14	Seminar
Week 15	Seminar
Week 16	Preparatory week before the final Exam

	Delivery Plan (Weekly Lab. Syllabus)
	المنهاج الاسبوعي للمختبر
Week	Material Covered
Week 1	Introduction to Parasitology
Week 2	Classification of parasites
Week 3	Phylum Protozoa: Sarcodina (Entameba histolytica, Entameba coli)
Week 4	Phylum Protozoa: Sarcodina (Endolimax nana, Iodameba butchlii, Entamoeba gingivalis)
Week 5	Phylum Protozoa: Ciliata
Week 6	Phylum Protozoa: Intestinal Flagellate
Week 7	Phylum Protozoa: Tissue Flagellate
Week 8	Mid-term Exam
Week 9	Phylum Protozoa: Hemoflagellate (<i>Leishmania</i> spp.)
Week 10	Phylum Protozoa: Hemoflagellate (Trypanosoma spp.)
Week 11	Phylum Protozoa: Apicomplexa (<i>Plasmodium</i> spp.) part 1
Week 12	Phylum Protozoa: Apicomplexa (<i>Plasmodium</i> spp.) part 2
Week 13	Phylum Protozoa: Apicomplexa (Toxoplasma gondi)
Week 14	Phylum Protozoa: Apicomplexa (Cryptosporidum parvum, Isospora)
Week 15	Diagnosis methods of protozoan parasitic infection
Week 16	Preparatory week before the final Exam

Learning and Teaching Resources					
	مصادر التعلم والتدريس				
	Text	Available in the Library?			
	Lectures scheduled by the professors of the subject and according to the				
	available methodological books related to parasitology.				
Required Texts	Cox F.E.G. (1990). Modern Parasitology (Second Edition). Blackwell				
Required Texts	Science.				
	Anthony J.Nappi, Emily Vas. (2002). Parasites of Medical Importance. Lands				
	Bioscience. Texas, U.S.A.				
	Rohela Mahmud, Yvonne Ai Lian Lim, Amirah Amir. (2017). Medical				
Recommended Texts	parasitology. Springer International Puplishing.				
Recommended Texts	Buton J. Bogitsh, Clint E. Carter, Thomas N. Oel Tmann. (2013). Human				
	Parasitology. Elsevier Inc.USA.				
XX7 1 ·4	1. https://ia802700.us.archive.org/6/items/b21996763/b21996763.pdf				
	2. https://www.cartercenter.org/resources/pdfs/health/ephti/library/lecture	notes/health scien			
Websites	ce_students/MedicalPara sitology.pdf				
	3. https://www.slideshare.net/meducationdotnet/parasitology -lecture-seri	es			

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



Ministry of Higher Education and Scientific Research - Iraq University of Baghdad College of Science Department of Biology



5MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية							
Module Title	Plant taxo	onc	omy				Module Delivery
Module Type	Core						
Module Code	BIO24021				⊠Led — ⊠Lal		
ECTS Credits	5				□Sen		
SWL (hr/sem)	125						
	Module Lev	vel	2		Sem	ester of Delivery	2
Administer	ring Departme	ent	Biology	College		Collage of scie	
Module Leader		D	r. Sukeyna Abaas Aliwy	e-mail		Sukeyna.abaas@s	sc.uobaghdad.edu.iq
Module Lead	Module Leader's Acad. Title Ass		Assistant Professor	Mod	ule Leade	r's Qualification	Ph.D.
Module Tutor	Dr. Lamia A. Gharab		e-mail		Lamya.gharb@s	c.uobaghdad.edu.iq	
Peer Re	Reviewer Name Dr. Israa Abdulrazzaq Aldobaissi e-mail Israa.aldobaissi@sc.uobaghdad.e		sc.uobaghdad.edu.iq				
Scientific Committ	tee Approval Date		14/6/2023	Version	n Number 1.0		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
	1- Identify the science of plant taxonomy, learn about its scientific history, its
	applications and its relation to other science. 2- Learn about the changes that occurred in the structure of plants as a result of the evolutions during geological era
Module Aims	3- Lear about the morphological characteristics that help in identify and classify the plants.
أهداف المادة الدر اسية	4- Learn about how to find and use other biological evidences that support the process of plant taxonomy.
	5- Identifying the wild plant families that grow in Iraq and know their importance as a botanical wealth.
	6- Learn about the modern techniques that can used in science of plant classification.
	7- Identify the types of taxonomic keys that can used in plant classification.
	1. understanding the science of taxonomy in plant and its relation to other
	sciences.
Module Learning	2- understanding and learning the terms of vegetative parts description .2- understanding and learning the terms of reproductive parts description .
Outcomes	3. Reviewing the mechanism of reproduction in plants, studying the
	characteristics of pollen grains and their importance in classification, as well as
مخرجات التعلم للمادة الدراسية	studying the mechanism of plant migration.
	4. Use different taxonomic keys to classify plants.
	5- understanding the main differences between dicot and monocot plants
	The plant taxonomy module is designed to understand the science of taxonomy
	and its relation to other sciences, as well as recognize the plant parts, learning
Indicative Contents	the terms that use in description the vegetative and reproductive parts. in
المحتويات الإرشادية	addition to understand the reproduction in Angiosperm, pollination and dispersal mechanisms. the difference between Monocotyledon and Dicotyledon plants.
	and these aims increase the student skill in recognizing and identifying different plant grown in surrounding environment.

Learning and Teaching Strategies			
استر اتيجيات التعلم و التعليم			
	The main strategy that will be adopted in this module is to encourage students' participation in		
	the process of plant taxonomy and expanding their thinking skills. The process starts with finding		
Strategies	a plant and try to identify it by comparing it with previous collected specimens or with the aid of		
Strategies	books or herbarium lists. The morphological characteristics are the most important to identify		
	the plants, once the plant has been identified, its name and its ranks are known. The ICN set rules		
	and recommendations for formal botanical nomenclature, including plants. Plant description is a		

formal description of a newly discovered species, usually in the form of scientific paper using ICN guidelines. Before the availability of genetic evidence, the classification of angiosperms was based on morphology and biochemistry, after 1980s, detailed genetic evidence analyzed by phylogenetic methods became available and while confirming or clarifying some relationships in existing classification systems, it radically changed others. This knowledge including all the classification characteristics will be achieved through classes.

Module Evaluation

تقييم المادة الدراسية

	As	Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
	Quizzes	2	10%	4 th . 5 th .	LO1-LO2
Formative	Assignments	2	10%	10 th , 11 th	LO3
assessment	Report	2	10%	12 th , 14 th	LO3 , LO4, LO5
	Projects/Lab	5	10%	Continuous	All
Summative	Midterm Exam	2 hr	10% (10)	8	LO1-LO3
assessment	Final Exam	hr3	50% (50)	1-15	All
		Total assessment	100% (100 Marks)		

Student Workload (SWL)					
١ أسبوعا	محسوب له ٥	الحمل الدراسي للطالب			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	63	Structured SWL (h/w) الحمل الدر اسي المنتظم للطالب أسبو عيا	4		
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	62	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	4		
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل			125		

	Delivery Plan (Weekly Syllabus)
	المنهاج الاسبوعي النظري
Week	Material Covered
Week 1	The science of Plant taxonomy
Week 2	Objectives of taxonomy
Week 3	Angiosperm (Seed plants) general terms, Principles of classification
Week 4	Basics of plant identification and classification (vegetative parts) 1

Week 5 Basics of plant identification and classification (vegetative parts) 2, Quiz Week 6 Basics of plant identification and classification (reproductive parts) flowers 1 Week 7 Basics of plant identification and classification (reproductive parts) flowers 2 Week 8 Midterm Exam Week 9 Basics of plant identification and classification (reproductive parts) inflorescence Week 10 Pollination, and migration (dispersal) in plants, Week 11 Reproduction in plants, Assignment Week 12 Basics of plant identification and classification 1 (reproductive parts) fruits Week 13 Basics of plant identification and classification 2 (reproductive parts) seed, report Week 14 Plants families that grow wild in Iraq 1 (Monocot, Dicots) Week 15 Preparation of final exam, report Week 16		
Week 7 Basics of plant identification and classification (reproductive parts) flowers 2 Week 8 Basics of plant identification and classification (reproductive parts) inflorescence Week 10 Pollination, and migration (dispersal) in plants, Week 11 Reproduction in plants, Assignment Week 12 Basics of plant identification and classification 1 (reproductive parts) fruits Week 13 Basics of plant identification and classification 2 (reproductive parts) seed, report Week 14 Plants families that grow wild in Iraq 1 (Monocot, Dicots) Week 15 Preparation of final exam, report	Week 5	Basics of plant identification and classification (vegetative parts) 2, Quiz
Week 8 Week 9 Basics of plant identification and classification (reproductive parts) inflorescence Week 10 Pollination, and migration (dispersal) in plants, Reproduction in plants, Assignment Week 12 Basics of plant identification and classification 1 (reproductive parts) fruits Week 13 Basics of plant identification and classification 2 (reproductive parts) seed, report Week 14 Plants families that grow wild in Iraq 1 (Monocot, Dicots) Week 15 Preparation of final exam, report	Week 6	Basics of plant identification and classification (reproductive parts) flowers 1
Week 10 Pollination, and migration (dispersal) in plants, Week 11 Reproduction in plants, Assignment Week 12 Basics of plant identification and classification 1 (reproductive parts) fruits Week 13 Basics of plant identification and classification 2 (reproductive parts) seed, report Week 14 Plants families that grow wild in Iraq 1 (Monocot, Dicots) Week 15 Preparation of final exam, report	Week 7	Basics of plant identification and classification (reproductive parts) flowers 2
Week 10 Pollination, and migration (dispersal) in plants, Week 11 Reproduction in plants, Assignment Week 12 Basics of plant identification and classification 1 (reproductive parts) fruits Week 13 Basics of plant identification and classification 2 (reproductive parts) seed, report Week 14 Plants families that grow wild in Iraq 1 (Monocot, Dicots) Week 15 Preparation of final exam, report	Week 8	Midterm Exam
Week 11Reproduction in plants, AssignmentWeek 12Basics of plant identification and classification 1 (reproductive parts) fruitsWeek 13Basics of plant identification and classification 2 (reproductive parts) seed, reportWeek 14Plants families that grow wild in Iraq 1 (Monocot, Dicots)Week 15Preparation of final exam, report	Week 9	Basics of plant identification and classification (reproductive parts) inflorescence
Week 12 Basics of plant identification and classification 1 (reproductive parts) fruits Week 13 Basics of plant identification and classification 2 (reproductive parts) seed, report Week 14 Plants families that grow wild in Iraq 1 (Monocot, Dicots) Week 15 Preparation of final exam, report	Week 10	Pollination, and migration (dispersal) in plants,
Week 13 Basics of plant identification and classification 2 (reproductive parts) seed, report Week 14 Plants families that grow wild in Iraq 1 (Monocot, Dicots) Week 15 Preparation of final exam, report	Week 11	Reproduction in plants, Assignment
Week 14 Plants families that grow wild in Iraq 1 (Monocot, Dicots) Week 15 Preparation of final exam, report	Week 12	Basics of plant identification and classification 1 (reproductive parts) fruits
Week 15 Preparation of final exam, report	Week 13	Basics of plant identification and classification 2 (reproductive parts) seed, report
	Week 14	Plants families that grow wild in Iraq 1 (Monocot, Dicots)
Week 16 final Exam	Week 15	Preparation of final exam, report
	Week 16	final Exam

	Delivery Plan (Weekly Lab. Syllabus)
	المنهاج الاسبوعي للمختبر
Week	Material Covered
Week 1	Introduction, herbarium specimens
Week 2	roots and stems
Week 3	Leaves
Week 4	Review, quiz
Week 5	flower parts
Week 6	flower parts
Week 7	Inflorescences
Week 8	Midterm Exam
Week 9	Fruits and seeds
Week 10	Review , Assignment
Week 11	floral equation and taxonomic key. identifying some plant families using the taxonomic key 1
Week 12	Report 1, identifying some plant families using the taxonomic key 3
Week 13	identifying some plant families using the taxonomic key4
Week 14	Report 2 identifying some plant families using the taxonomic key 5
Week 15	identifying some plant families using the taxonomic key 6
Week 16	final Exam

Learning and Teaching Resources

مصادر التعلم والتدريس

		Available in
	Text	the
		Library?
Required Texts	الكاتب، يوسف منصور (1988) تصنيف النباتات البذرية، الطبعة الاولى، دار الكتب للطباعة والنشر، جامعة الموصل، العراق، 958 الموسوي، علي حسين (1987)، علم تصنيف النبات، دار الكتب للنشر، جامعة الموصل، 918 ص.	yes
Recommended Texts	A Brief Review on Plant Taxonomy and its Components /20188 Plant Taxonomy and Biosystematics / 2000	yes
Websites	https://www.worldfloraonline.org/taxon/wfo-4000019533 - The https://efloraindia.bsi.gov.in/eFlora/taxonList.action/ https://powo.science.kew.org/taxon/urn:lsid:ipni.org:nam	Online?id=6&type=2

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



Ministry of Higher Education and Scientific Research - Iraq University of Baghdad College of Science Department of Biology



MODULE DESCRIPTION FORM

Module Information						
Module Title	Phy	Phycology and Archegoniate Module Delive			Module Delivery	
Module Type	Cor	е				
Module Code	BIO	24024		⊠ Le		
ECTS Credits	6			∃ ⊠Lak).	
SWL (hr/sem)	150					
Module I	Level	2		Sem	ester of Delivery	2
Administe Departi		Biology	College	Scien		Science
Module Leader		Prof. Dr. Ibrahim jabber abed	e-mail		ibrahim abed @	sc.uobaghdad.edu.iq
Module Leader's A	cad. Title	Professor	Modul	le Leader's Qualification Ph.D.		Ph.D.
Module Tutor		Prof. Dr. Rusol Mohammed	e-mail	rusol.jasim@sc.uobaghdad.edu.iq		baghdad.edu.iq
Peer Reviewer N	lame	Dr. Israa Abdul Razzaq Aldobaissi	e-mail	Israa.aldobaissi@sc.uobaghdad.edu.i		sc.uobaghdad.edu.iq
Scientific Comm Approval		14/6/2023	Version N	Number		1.0

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

Module Aims, Learning Outcomes and Indicative Contents				
Module Aims	6. Providing a broad understanding of plant groups with an emphasis on the most important species.			
Wiodule Alliis	7. Explaining the characters of plant groups .			
	8. Study the main chracters of plant group.9. Comparision between plant groups			
Module Learning				
Outcomes	16. Understanding the main characters for all plant groups.			

	17. Recall of information and attempting to connect them to reach the proper diagnosis of		
	plant .		
	18. Comparison between characteristic of plant groups .		
	The module will begin with a brief introduction outlining the module's goals,		
	content, and evaluation criteria, as well as the learning outcomes. Following		
Indicative Contents	that, the module material is divided into separate themes, offering the key pathways that drive characteristic. In this context, we will also examine how such		
	knowledge might help with plant groups diagnosis, study the main character for		
	all groups Laboratory sessions of 2-hours duration will give active practice in a		
	variety of characteristic of plant groups in tandem with lecture topics.		

Learning and Teaching Strategies				
Strategies	This module's contact teaching will be conducted through lecturing (15 lectures) and compulsory 15 practical sessions, which include learning videos and scientific animations. Students will be			
Ö	invited to participate in interactive discussion throughout this program.			

Student Workload (SWL)					
Structured SWL (h/sem)	63	Structured SWL (h/w)	4		
Unstructured SWL (h/sem)	87	Unstructured SWL (h/w)	6		
Total SWL (h/sem)			150		

	Module Evaluation						
	تقييم المادة الدراسية						
	Time/Number Weight (Marks) Week Due Relevant Learning						
	As				Outcome		
	Quizzes	5	10%	3-6, 8-12	LO1-LO4		
Formative	Assignments	2	10%	8 and 12	LO1-LO3		
assessment	-Report	1	10%	13	All		
	Projects/Lab	5	10%	Continuous	All		
Summative	Midterm Exam	2 hr	10% (10)	8 th	LO1-LO3		
assessment	Final Exam	hr 3	50% (50)	16 th	All		
	Total assessment 100% (100 Marks)						

	Delivery Plan (Weekly Syllabus)		
Week	Material Covered		
Week 1	Overview		
Week 2	Study algae Habitat and distributions		
Week 3	Study algal thallus structures and reproduction		
Week 4	Study of blue green algae		
Week 5	Study of green algae		
Week 6	Study of phaeophyta		
Week 7	Study of Rhodophyta		
Week 8	Midterm Exam		
Week 9	Study of charophyta		
Week 10	Study of Bacillariophyta		
Week 11	Study of chrysophyta		
Week 12	Study of marchantia		
Week 13	Overview of sphagnium		
Week 14	Sphagnium		
Week 15	Preparatory week before the final Exam		
Week 16	final Exam		

	Delivery Plan (Weekly Lab. Syllabus)
Week	Material Covered
Week 1	Overview
Week 2	Diagnosis of blue green algae
Week 3	Diagnosis of cladophoreles
Week 4	Diagnosis of oedogoniales
Week 5	Diagnosis of zegnametales

Week 6	Diagnosis of desmadales
Week 7	Diagnosis of charophyta
Week 8	Midterm Exam
Week 9	Diagnosis of phaeophyta
Week 10	Diagnosis of Rhodophyta
Week 11	Diagnosis of Diatoms
Week 12	Diagnosis of marchantia
Week 13	Overview of sphagnium
Week 14	Diagnosis of Sphagnium
Week 15	Preparatory week before the final Exam
Week 16	Final exam.

Learning and Teaching Resources				
	Text	Available in the Library?		
Required Texts	Genesel, P.G., Wamser, A.F. (2001). Introduction to the plant Kingdom. Cambridge University Press.	No		
Recommended Texts	Judd, W.s., kellogg, E.A., Stevens ,P.F., Donghue, M,J. (2020). Plant Systematics: A phylogenetic Approach. Sinauer Associates	No		

		Grading Scheme	,
حات	الدر	مخطط	

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



Ministry of Higher Education and Scientific Research - Iraq University of Baghdad College of Science Department of Biology



MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية						
Module Title	Pollution				Module Delivery	
Module Type	Core					
Module Code	BIO24023	BIO24023 6				
ECTS Credits	6					
SWL (hr/sem)	150					
	Module Level	UGx11 2		Semester of Delivery		
Administer	ring Department	Biology	College	science		
Module Leader		Dr. Adel M. Rabee	e-mail	adel.mashaan@sc.uobaghdad.edu.iq		

Module Leader's Acad. Title		Professor	Module Leader's Qualification		r's Qualification	Ph.D.
Module Tutor	Dr. Al	nmed Jassim Mohammed	e-mail	ahmed.jassim@sc.uobaghdad.ed		sc.uobaghdad.edu.iq
Peer	Reviewer Name	Dr. Ithar Kamil Abbas	e-mail	il Ithar.kamil@sc.uobaghdad.e		sc.uobaghdad.edu.iq
Scientific Committe	e Approval Date	14/6/2023	Version	Number		1.0

Relation with other Modules						
العلاقة مع المواد الدراسية الأخرى						
Prerequisite module	None Semester					
Co-requisites module	None	Semester				
Module	e Aims, Learning Outcomes and Indicative	Contents				
	أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية					
Module Aims	The 1.An understanding of the global environmental	nis subject aims t problems caused				
أهداف المادة الدر اسية	2. The importar 3. The main sources of pollutants and their var					
	4.Fundamental concepts of air, noise, water, solid v		-			
	their nature, generation and					
	Upon completion of the subject, students will be able to: 1. Understand and identify the properties, transport pathways and fate of key					
	* * *	minants in the er				
Module Learning Outcomes	2. Understand the source, type and effect of air pollution and related global environmental problems such as green house effect, ozone hole and radiation					
مخرجات التعلم للمادة الدراسية	pollution 3. Understand the fundamental concept of water quality, types of water pollutants and methods to treatment					
	. The student learn about the heavy metals and their effect on human 4 5. Understand the soils pollution and focusing on the environmental problems that arise from the widespread use of pesticides and fertilizers					
Indicative Contents	- The module will begin with a brief introduction to understand this vital subject by the academic content includes the concept of pollution, types of pollutants their sources and potential risks, especially to humans Air Pollution Principal atmospheric and indoor air pollution: sources, characteristics and effects on human and community Water Pollution					
المحتويات الإرشادية						

Water quality; Sources of water pollution; Municipal and industrial waste water; Water treatment processes.

Soil Pollution

Soil pollution: fertilizers and pesticides and their properties

Learning and Teaching Strategies

استر اتيجيات التعلم و التعليم

This course aiming at arousing students' interest and awareness in multiple complex problems in our environment caused by pollution produced by human activities at the international and national levels.

In addition to the traditional classroom lectures, small-group discussions will be used whenever appropriately.

Strategies

In order to understand the multi-dimensional pollution problems including their generation, effects on our community, inter-changes between different types, and monitoring and control, students need to search and learn the fundamental knowledge in environmental pollution. Every student is also required to complete a mini project, regarding the pollution problems encountered in Iraq and their possible solutions and produce a written report to satisfy the writing requirement.

Student Workload (SWL)

الحمل الدر اسى للطالب محسوب لـ ١٥ اسبوعا

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	63	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	4
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	87	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	6
Total SWL (h/sem) الحمل الدر اسى الكلى للطالب خلال الفصل			150

Module Evaluation

تقييم المادة الدراسية

	As	Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
	Quizzes	5	10%	2-6, 8-12	All
Formative	Assignments	2	10%	8 and 12	-LO52LO
assessment	Report	1	10%	13	LO5
	Projects/Lab	5	10%	Continuous	All
Summative	Midterm Exam	2 hr	10% (10)	8	2LO1-LO
assessment	Final Exam	hr 3	50% (50)	16	All
		Total assessment	100% (100 Marks)		

	Delivery Plan (Weekly Syllabus)						
المنهاج الاسبوعي النظري							
Week	Material Covered						
Week 1	Definition of environmental pollution and characteristics of important pollutants						
Week 2	Air pollution and the most important air pollutants, their sources and effects						
Week 3	Environmental phenomena related to air pollution, especially global warming and the ozone hole						
Week 4	This week, students will learn about radiation and its different biological effects						
Week 5	This week, the student learns an introduction to water pollutants, water properties, and water quality indicators						
Week 6	In this lecture, the student learns about the types of water pollutants						
Week 7	Nutrient and eutrophication and the traditional and advanced methods of water treatment						
Week 8	Midterm Exam						
Week 9	The student will be familiar with the concept of heavy metals, the sources and fate in ecosystem						
Week 10	The general effect of heavy metals especially on human						
Week 11	This week, the student learns about a general introduction to the topic of soil pollution and soil properties						
Week 12	This week, students will learn about the most important soil pollutants						
Week 13	Students learn concentrated on agricultural chemicals and agricultural pollution concepts						
Week 14	This week, the student will learn about the types of pesticides and their properties						
Week 15	Cross resistance and the effects of pesticides on targeted and non-targeted species						
Week 16	Preparatory week before the final Exam						

	Delivery Plan (Weekly Lab. Syllabus)							
المنهاج الاسبوعي للمختبر								
Week	Material Covered							
Week 1	An introduction for students about the ecosystem and important pollutants							
Week 2 Determination of dissolved oxygen (Wink Week 3 Determination of Biological Oxyg								
				Week 4	Determination of Free CO2 in water			

Week 5		Measur	ring salinity by titration	
Week 6		Measuring acidity an	d alkalinity by titration	
Week 7		Measuring	Free chlorine in water	
Week 8			Midterm Exam	
Week 9		Determination	on of Calcium in Water	
Week 10		Determination of	of Magnesium in Water	
Week 11		Determination of T	Total hardness in Water	
Week 12		Determin	nation of TDS in Water	
Week 13		Determin	ation of COD in Water	
Week 14		Measuring pH of Water, Measuring	ring turbidity of Water	
Week 15		A	ir Pollution Laboratory	
		Learning and Teaching Resources		
		مصادر التعلم والتدريس		
		Text	Available in the Library?	
Required Texts		Hodges, L. Environmental Pollution. Edition, 2, illustrated. Publisher, Holt, Rinehart and Winston, 1977.	yes	
Recommended Texts		 Warneck, P., Chemistry of the Natural Atmosphere, International Geophysics Series. Vol. 41, Academic Press, San Diego, 1988. Owa, F. W. Water pollution: sources, effects, control and management. International Letters of Natural Sciences, 2014. 	cs Series. Vol. 41, Academic Press, San Diego, 1988. pollution: sources, effects, control	
	Websites	1. <u>https://www.worldwilo 2.</u> https://www.livescience.com/2	dlife.org/threats/pollution 22728-pollution-facts.html	

Grading Scheme							
		ـ الدرجات	مخطط				
Group	Grade	التقدير	Marks (%)	Definition			
	A - Excellent	امتياز	90 - 100	Outstanding Performance			
Success Group (50 - 100		جيد جدا	80 - 89	Above average with some errors			
(50 - 100	C - Good	ختر	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	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
(0-49)	F – Fail	راسب	(0-44)	Considerable amount of work required



Ministry of Higher Education and Scientific Research - Iraq University of Baghdad College of Science Department of Biology



MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

		Module Inf مادة الدر اسية				
Module Title		Co	omputer II			Module Delivery
Module Type			Basic		Theory	
Module Code		UOB203			Lecture	
ECTS Credits			3	×	Lab	
					Tutorial	
SWL (hr/sem)			75		Practical	
					Seminar	
	Module Level	2		S	emester of Delivery	2
Administering Department		Biology	College			College of Science

Module Leader	,	Saif Basheer Mohammed	e-mail	saif.basheer@so		sc.uobaghdad.edu.iq
Module Leader's Acad. Title		Assistant Lecturer	Module Leader's Qualification Master		Master Degree	
Module Tutor		Zainab Jawad Ahmed	e-mail		zainab.jawad@sc.uobaghdad.edu.iq	
Peer Reviewer Name		Dr. Rawaa Hassan	e-mail		rawaa.hassan@sc.uobaghdad.edu.i	
Scientific Committee Approval Date		14/6/2023	Version	Number		1.0

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

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية			
Module Objectives أهداف المادة الدراسية	 Learn programming for non-CS students a programming language that is as suitable as the purpose for which it is being used in the department, like Python, R, or Matlab. Learn basic syntax and logic of things like variables, data types, input/output, if-else statements, loops, functions, and data visualization. 		
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	By the end of this module, students should be: 1. Learn the basics of a program code as a collection of one or more standard functions, syntax rules, semantic rules, symbols, special words, and comments. 2. Learn what a stream is and examine input and output streams. 3. Learn mathematical operators and expressions. 4. Learn how to form and evaluate logical (Boolean) expressions. 5. Learn how to use the selection control structures: if, if else, nested if, and nested ifelse. 6. Learn how to construct and use looping structures. 7. Learn to program any loop. 8. Learn how to form and use single, multiple disjoint, and nested loop structures. 9. Learn how to exploit built-in functions. 10. Learn how to visualize data with different plot structures.		
Indicative Contents المحتويات الإرشادية	Indicative content includes the following.		

Learning and Teaching Strategies

Strategies

استراتیجیات التعلم والتعلیم The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises and daily quizzes, 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.

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا						
Structured SWL (h/sem) Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا الحمل الدراسي المنتظم للطالب خلال الفصل						
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	30	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	2			
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	75					

Module Evaluation

تقييم المادة الدراسية

As		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
	Quizzes	2	10% (10)	3 and 7	3, 7
Formative	Assignments	2	10% (10)	9 and 10	9 and 10
assessment	Projects / Lab.	1	10% (10)	Continuous	3, 5, 7 (Lab)
	Report	1	10% (10)	Continuous	All
Summative	Midterm Exam	2hr	10% (10)	8	All
assessment	Final Exam	hr3	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

Week	Material Covered
Week 1	Main rules for problem-solving techniques.
Week 2	Output statements.

Week 3	Input statements.
Week 4	Assignment operator, declaration, and assignment statements.
Week 5	Mathematical operators and expressions.
Week 6	If statements and nested if statements.
Week 7	ifelse statements.
Week 8	Midterm Exam
Week 9	Loop and body of loop.
Week 10	Nested loops.
Week 11	Arrays.
Week 12	Arrays: continue.
Week 13	Data Visualization 1: Visualizing data with several types of visualizations, for example: Scatter plots bar charts Box plots Histograms Area charts
Week 14	Data Visualization 2: continue.
Week 15	Preparatory week before the final Exam.

Delivery Plan (Weekly Lab. Syllabus)							
المنهاج الاسبوعي للمختبر							
Week	Material Covered						
Week 1	Lab 1: Be familiar with the Editor and run window.						
Week 2	Lab 2: output statements.						
Week 3	Lab 3: Input statements.						
Week 4	Lab 4: Assignment statement						
Week 5	Lab 5: Playing with mathematical operators and expressions.						
Week 6	Lab 6: if statement and nested if statements.						
Week 7	Lab 7: ifelse statement.						
Week 8	Midterm Exam						
Week 9	Lab 8: loop.						
Week 10	Lab. 9: nested loops.						
Week 11	Lab 10: 1D arrays and 2D arrays.						
Week 12	Lab. 11: 1D arrays and 2D arrays: continue.						
Week 13	Lab 12: Data visualization.						
Week 14	Lab. 13: Data visualization: continue.						
Week 15	Preparatory week before the final Exam.						

Learning and Teaching Resources مصادر التعلم والتدريس						
	Text	Available in the Library?				
Required Texts	Required Texts Python Programming for Biology: Bioinformatics and Beyond, TIM J. Stevens & WAYNE Boucher, CAMBRIDGE 2015					
	Python Crash Course: A hands-on, Project Based Intro to					
Recommended	Programming, Eric Mattes, 2019	No				
Texts	Python Programming An Introduction to Computer Science, John M.					
Websites		www.python.org				

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



Ministry of Higher Education and Scientific Research - Iraq University of Baghdad College of Science Department of Biology



MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدر اسية						
Module Title	English	English Language /Second Year				Module Delivery
Module Type			Support	∑ ⊠ The	Porv	
Module Code			UOB206	∑ Lec	ture	
ECTS Credits					orial ctical	
SWL (hr/sem)			50	□ Sen	ninar	
	Module Level	UGx 2		Semester of Delivery		2
Administer	ring Department	Type Dept. Code	College	Type College		Type College Code
Module Leader		Ranea Yahya Khudhur	e-mail		rania.y@coedu	w.uobaghdad.edu.iq
Module Leader's Acad. Title		Assistant Lecturer	Modu	Module Leader's Qualification		MA
Module Tutor Name (if available)		e-mail	E-mai		E-mail	
Peer Reviewer Name		Dr. Muthana Khalaf	e-mail	muthana.khalaf@sc.uobaghdad.		sc.uobaghdad.edu.iq
Scientific Committee	e Approval Date		Version 1	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

- a pre-intermediate level course aiming to build and further improve language proficiency for second year students/ college of science,
- 1. Listening Objectives:
- Understand and respond appropriately to a variety of spoken English in familiar contexts.
- Comprehend main ideas, specific details, and implied information in spoken texts.
- Develop listening strategies to enhance understanding.
- 2. Speaking Objectives:
- Engage in conversations on a range of topics using appropriate vocabulary and grammar.
- Express opinions, preferences, and experiences.
- Develop speaking strategies for effective communication, such as turn-taking and seeking clarification.
- 3. Reading Objectives:
- Read and understand a variety of texts, including articles, stories, and informational passages.
- Comprehend main ideas, details, and implied information in written texts.
- Develop reading strategies for comprehension and vocabulary acquisition.
- 4. Writing Objectives:
- Write coherent paragraphs and short texts on different topics.
- Express ideas clearly and logically using appropriate grammar and vocabulary.
- Develop writing strategies for organization, coherence, and accuracy.
- 5. Grammar and Vocabulary Objectives:
- Develop a solid understanding and usage of a wide range of grammatical structures appropriate for the pre-intermediate level.
- Expand vocabulary knowledge to include a broader range of words, idiomatic expressions, and collocations.
- Apply grammar and vocabulary knowledge to express oneself accurately and effectively.
- 6. Pronunciation and Intonation Objectives:
- Improve pronunciation accuracy of individual sounds, stress patterns, and intonation.
- Use appropriate rhythm, stress, and intonation for effective communication.
- Recognize and produce connected speech features to enhance fluency and naturalness.
- 7. Cultural Awareness Objectives:

Module Objectives أهداف المادة الدراسية

Develop an understanding of cultural practices, customs, and social norms in English-speaking countries.
 Demonstrate cultural sensitivity and adapt communication accordingly.
 Recognize the impact of culture on language use and communication styles.

Learner training is essential to the achievement of the Learning.

Learner training is essential to the achievement of the Learning Outcomes.

- 1. Listening and Speaking:
- Understand and respond appropriately to a range of everyday spoken English in familiar contexts.
- Engage in conversations and discussions on a variety of topics using appropriate language and strategies.
- Comprehend and extract information from spoken texts, such as interviews, dialogues, and narratives.
- 2. Reading:
- Read and understand a variety of texts, including articles, stories, and informational passages.
- Comprehend main ideas, details, and specific information from the texts.
- Apply reading strategies to infer meaning from context and make predictions.
- 3. Writing:
- Write coherent and well-organized paragraphs and short texts on various topics.
- Express ideas and opinions clearly and concisely.
- Demonstrate control of grammar, vocabulary, and sentence structures appropriate for the pre-intermediate level.
- 4. Grammar and Vocabulary:
- Understand and use a wide range of grammatical structures and tenses, including present perfect, past simple, future forms, and conditionals.
- Expand vocabulary knowledge to include a broader range of words, idiomatic expressions, and collocations.
- Apply grammar and vocabulary in context to enhance communication skills.
- 5. Pronunciation and Intonation:
- Develop accurate pronunciation of individual sounds and common word stress patterns.
- Use appropriate intonation and stress patterns to convey meaning effectively.
- Understand and produce connected speech features, such as linking sounds and contractions.
- Cultural Awareness:
- Gain insights into cultural practices, traditions, and customs in English-speaking countries.

Module Learning Outcomes

مخرجات التعلم للمادة الدراسية

	,
	Develop intercultural competence and sensitivity in communication.
	• Understand cultural influences on language use and behavior.
	Indicative content includes the following.
	1: Greetings and Introductions
	Vocabulary: Greetings, introductions, personal information
	• Grammar: Present simple, present continuous, subject pronouns, possessive adjectives
	• Skills: Listening to and giving personal information, role-playing introductions, writing
	short personal profiles
	2: Daily Routines
	Vocabulary: Daily activities, time expressions
	Grammar: Present simple, adverbs of frequency, prepositions of time
	• Skills: Talking about daily routines, describing habits and schedules, writing a daily
	routine diary
	3: Family and Relationships
	Vocabulary: Family members, relationships, adjectives to describe people
	Grammar: Possessive 's, can/can't, imperatives
	• Skills: Talking about family members, describing people's appearance and personality,
	writing about a family member
	4: Free Time and Hobbies
	Vocabulary: Leisure activities, hobbies, sports
	Grammar: Present simple vs. present continuous, question words
	• Skills: Discussing leisure activities, talking about hobbies and interests, writing about
	favorite pastimes
Indicative Contents	5: Shopping and Money
المحتويات الإرشادية	Vocabulary: Shops, money, prices, clothes
	Grammar: Countable and uncountable nouns, plurals, quantifiers
	• Skills: Role-playing shopping conversations, describing clothes, writing a shopping list
	6: Travel and Transportation
	Vocabulary: Means of transport, travel destinations, directions
	Grammar: Present perfect, past simple, adverbs of time
	• Skills: Discussing travel experiences, giving and following directions, writing about a
	memorable trip
	7: Food and Eating Habits
	Vocabulary: Food items, meals, cooking, restaurants
	Grammar: Countable and uncountable nouns, articles, some/any
	Skills: Talking about food preferences, ordering in a restaurant, writing a recipe
	8: Health and Well-being
	Vocabulary: Health issues, symptoms, remedies
	Grammar: Should/shouldn't, modals for advice and obligation
	Skills: Discussing health problems, giving advice, writing a health blog post
	9: Jobs and Careers
	Vocabulary: Professions, job descriptions, skills
	Grammar: Past continuous, comparatives and superlatives
	 Skills: Talking about jobs and career aspirations, describing job experiences, writing a
	resume
	10: Future Plans and Ambitions
	10. I dute I tans and Ambidons

- Vocabulary: Future forms (will, going to, present continuous), ambitions, goals
- Grammar: Future forms, time clauses
- Skills: Discussing future plans, setting goals, writing a letter to your future self

11: Technology and Communication

- Vocabulary: Communication devices, social media, technology-related terms
- Grammar: Present perfect continuous, future continuous, indirect questions
- Skills: Discussing technology and its impact, describing communication habits, writing an email or text message

12: Environment and Sustainability

- Vocabulary: Environmental issues, natural disasters, conservation
- Grammar: Conditional sentences, passive voice
- Skills: Discussing environmental concerns, expressing opinions on sustainability, writing an article on environmental conservation

13: Culture and Traditions

- Vocabulary: Festivals, customs, cultural practices
- Grammar: Reported speech, relative clauses
- Skills: Talking about cultural events, comparing traditions, writing a description of a cultural celebration

14: Education and Learning

- Vocabulary: School subjects, learning methods, educational institutions
- Grammar: Past perfect, modals for possibility and certainty
- Skills: Discussing educational experiences, describing favorite subjects, writing an opinion essay on the benefits of education

15: Travel and Tourism

- Vocabulary: Tourist attractions, accommodation, travel experiences
- Grammar: Comparative and superlative adjectives, phrasal verbs
- Skills: Talking about travel preferences, recommending destinations, writing a travel blog post or itinerary

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

1.Communicative Approach: Emphasize communicative activities that promote interaction among students. Encourage pair and group work, role-plays, and discussions to practice language skills in meaningful contexts.

2.Integrated Skills: Integrate the four language skills (speaking, listening, reading, and writing) in lessons to create a balanced approach to language learning. Provide opportunities for students to use and develop these skills simultaneously.

Strategies

- 3. Vocabulary Expansion: Incorporate vocabulary-building exercises and activities throughout the course. Use real-life contexts, visuals, and practical examples to help students learn and remember new words.
- 4.Grammar Focus: Teach and reinforce grammar structures in a systematic and progressive manner. Provide clear explanations, examples, and practice exercises to ensure students understand and can apply the grammar rules correctly.
- 5. Authentic Materials: Include authentic texts, such as articles, newspaper clippings, songs, and videos, to expose students to real-world language usage. This helps develop their reading and

listening comprehension skills and exposes them to cultural aspects of English-speaking countries.

6.Cultural Awareness: Integrate cultural topics and discussions into the lessons to foster cultural awareness and sensitivity. Encourage students to share their own cultural backgrounds and experiences to promote understanding and appreciation of diverse perspectives.

7.Error Correction: Provide constructive feedback and error correction during speaking and writing activities. Help students identify and correct their mistakes, focusing on accuracy while encouraging fluency and self-expression.

8.Technology Integration: Utilize technology tools, such as interactive whiteboards, online resources, and language learning apps, to engage students and enhance their language learning experience. Incorporate multimedia materials for listening and speaking practice.

9.Regular Assessment: Assess students' progress regularly through quizzes, tests, and assignments. Provide timely feedback to guide their learning and address areas that need improvement.

10.Individualization: Cater to the individual needs and learning styles of students. Offer differentiated tasks and activities to ensure all learners are appropriately challenged and supported.

11.Cooperative Learning: Promote collaboration and teamwork among students through pair work, group projects, and peer feedback. This encourages active participation and a supportive learning environment.

12.Review and Revision: Schedule regular review sessions to consolidate previously learned material. Encourage students to revise and practice independently, providing resources for self-study and additional practice.

Student Workload (SWL)						
الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا						
Structured SWL (h/sem) الحمل الدر اسي المنتظم للطالب أسبوعيا Structured SWL (h/w) الحمل الدر اسي المنتظم للطالب خلال الفصل 2.3						
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	17	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبو عيا	1			
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	50					

Module Evaluation

تقييم المادة الدراسية

As		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
	Quizzes	2	10% (10)	5 and 10	LO #1, #2 and #4, #5
Formative	Assignments	2	10% (10)	2 and 8	LO #2, #3 and #4, #6
assessment	Projects	1	10% (10)	11	All
	Report	1	10% (10)	13	LO #2, #3 and #4, #6
	Midterm Exam	2hr	10% (10)	7	LO #3, #4 and #6

Summative assessmen	Final Exam	3hr	50% (50)	16	All			
Total assessment 100% (100 Marks)								
Delivery Plan (Weekly Syllabus)								
	المنهاج الاسبوعي النظري							
Week	New Headway Plus provides an integrated skills course with each unit divided into grammar, vocabulary, skills work and everyday English segments as follows:							
Week 1				tı	Getting to know you p6 Tenses Present, past, future p6 Questions Where were you born? What do you do? p6 Question words Who?, Why?, How much? p7 Right word, wrong word Verbs of similar meaning speak/talk, say/tell Adjectives and nouns that go together Prepositions o, from, at, about, of, on, in, etc. Words with two meanings et my husband on a blind date. Dates are good for you. p12 Social expressions Have a good weekend! Same to you. p13			
Week 2					Whatever makes you happy p14 Present tenses Present Simple She lives alone in Bristol. p14 Present Continuous She's planning p14 have/have got He has his own company. I've got an idea for p15 Things I like doing play games have a lie-in get up late p17 Making conversation			

	What a lovely day it is
	today!
	Are you having a good time in London?
	Have a good weekend!
	p21
	What's in
	the news?
	p22
	Past tenses
	Past Simple
	How far did he walk?
	I had a shower last night. p23 Past Continuous
XX/1- 2	I was having a shower when p23
Week 3	Adverbs
	drive carefully
	speak furiously
	work hard p28
	Saying when
	What's the date today?
	It's June the twentysecond. When did you last go
	to the cinema?
	Two weeks ago. p29
	Eat, drink, and
	be merry!
	p30
	Quantity
	much and many
	How much milk?
	How many eggs? p31
	How many eggs? p31 some and any
	How many eggs? p31 some and any some apples, any bananas p31
	How many eggs? p31 some and any
	How many eggs? p31 some and any some apples, any bananas p31 a few, a little, a lot/lots of p31 something / someone / somewhere p32 Articles
Week 4	How many eggs? p31 some and any some apples, any bananas p31 a few, a little, a lot/lots of p31 something / someone / somewhere p32 Articles a shopkeeper, an old village,
Week 4	How many eggs? p31 some and any some apples, any bananas p31 a few, a little, a lot/lots of p31 something / someone / somewhere p32 Articles a shopkeeper, an old village, the north of England, He came
Week 4	How many eggs? p31 some and any some apples, any bananas p31 a few, a little, a lot/lots of p31 something / someone / somewhere p32 Articles a shopkeeper, an old village, the north of England, He came by bus. p32
Week 4	How many eggs? p31 some and any some apples, any bananas p31 a few, a little, a lot/lots of p31 something / someone / somewhere p32 Articles a shopkeeper, an old village, the north of England, He came by bus. p32 Food
Week 4	How many eggs? p31 some and any some apples, any bananas p31 a few, a little, a lot/lots of p31 something / someone / somewhere p32 Articles a shopkeeper, an old village, the north of England, He came by bus. p32 Food apples, beer, bread, cake p36
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Week 4	How many eggs? p31 some and any some apples, any bananas p31 a few, a little, a lot/lots of p31 something / someone / somewhere p32 Articles a shopkeeper, an old village, the north of England, He came by bus. p32 Food apples, beer, bread, cake p36 Shopping newsagent's, chemist's, off-licence p36 Can you come for dinner? Would you like some more rice? Could you pass the salt, please? How would you like

	20
	p38 Verb patterns
	want/hope to do
	like/enjoy doing
	looking forward to doing
	'd like to p38
	Future forms
	going to, will and Present Continuous
	I'm going to stay with a friend.
	l'Il call or text you. I'm working late this evening. p40
	Phrasal verbs – literal
	move back
	take away
	grow up p44
	Phrasal verbs – idiomatic
	give up take off
	look after p44
	Expressing doubt and
	certainty
	Of course he will.
	He might do.
	Mmm maybe.
	I doubt it. No chance. p45
	140 Chance, p45
	The way I see it
	p46
	What like?
	What's your teacher like? p46
	Comparative and superlative adjectives
	big, bigger, biggest good, better, best p47
	as as
	It isn't as hot as Dubai. p47
Week 6	Relative pronouns
	who/that/which/where p110
	Synonyms and antonyms
	lovely, beautiful
	brilliant, terrible p52 What's on?
	How much is it to go
	in the museum?
	Is it open on Sunday?
	What film is suitable
	for children? p53
Week 7	Mid-term Exam
	Living history
	p54
	Present Perfect
Week 8	John has lived there for three
VV CCK O	years. p55
	for and since
	for two hours
	since six o'clock p55 ever and never
	ever and never

Have you ever been I've never been to South America Present Perfect or Past Si Have you had an ordinary I worked in a restaurant
Present Perfect or Past Si Have you had an ordinary
Have you had an ordinary
Word en
philosopher, histo
economis
Nouns and adject
competition, famous
Word s
danger, dang
invite, invitation
Agree with
It's wonderful, iso You come
Scotland, don't
It wasn't easy, w
You've lived her
years, haven't
Girls and b
ha
She has to train
I don't have to train every
Do you have to wo
weekends
st
You should show him this letter
He work not one foreign at help
He must get professional help Things to
belt, cap, boots, jui
Week 9 make-up
Mate
leather, wool, do
cotto
Situa
job interview, party, b
holiday
At the doc a sore throat, flu,
a sore throat, ju,
l've got a j
My body a
My gland
SW
Time for a st
Past Pe
Week 10 They had walked twenty miles
Narrative to
They saw a
They were looking for work

Week 12 Joining sentences although, because when, while, before, after, as, until, as so on as pT2 Feelings angry, nervous, delighted, stressed pT6 Exclamations with so and lwas so scared, lt was and such terrible wanther! Pve got so much work! P77 Our interactive World p788 Passives Mobile phones are used by almost billion people. The first mobile phone call was made billion people. The first mobile phone call was made billion people. The first mobile phones will be replaced by mobile phones, pT9 Words that pt objective businessman p81 Verb + Houn nake notes, sand a text message, p81 Adverb + adjective well-known, budly-behaved p81 On the phone of p709 90033 Can is peed to Patrick, please? I'm colling because Surry, you're breaking up p85 Life's what you make it! p86 Present Perfect Continuous It's been making pragrammes since 2007.		Latin Communication of the Com
Week 12 when, while, before, after, as, until, as soon as p72 Feelings angry, nervous, delighted, such angry, nervous, delighted, such lwas so scared; lt was so scared; lt was so scared; lt was such a shock! We had such terroble weather' l've got so mich work! p77 Our interactive World p78 April and a service of the		
Week 11 ### Soon as \$\text{precisions} \frac{\text{precisions}}{\text{precisions}} \frac{\text{precisions}}{\		
Feelings angry, nervous, delighted, stressed p76 Exclamations with so and I was so scarred it was such a shock! It was so scarred it was such a shock! If ye got so much work! If ye got so much work! Pre got so much work! Our interactive World p78 Passives Mobile phones are used by almost of billion people. The first mobile phone call was made in 1973. Camera phones have been sold since 2002. Landline telephones will be replaced by mobile phones, which is not to text message, businessman p81 Verb + noun take notes, send a text message, businessman p81 Adverb + adjective well-known, bady-behaved p81 Carry, you're breaking up. Bite's what you make it! p86 Carry was present Perfect Continuous Week 12		
Week 11 angry, nervous, delighted, stressed p76 Exclamations with so and such it was so scared! I was so scared! It was such a shock! We had such terrible weather! I've got so mach work! Pre got so mach work! Passives Mobile phones are used by plants 6 billion people. The first mobile phone call was made by mobile phones will be replaced by mobile phones. p79 Words that go together work that go together hours are used by mobile phones. p79 Words that go together hours will be replaced by mobile phones. p79 Words that go together hours will be replaced by mobile phones. p79 Words that go together hours will be replaced by mobile phones. p79 Words that go together hours will be replaced by mobile phones. p79 Words that go together hours will be replaced by mobile phones. p79 Words that go together hours will be replaced by mobile phones. p79 Words that go together hours will be replaced by mobile phones. p79 Words that go together hours will be replaced by mobile phones. p79 Words that go together hours will be replaced by mobile phones. p79 Words that go together hours will be replaced by mobile phones. p79 Words that go together hours. phones will be replaced by mobile phones. p79 Words that go together hours. phone will be replaced by mobile phones. p79 Words that go together hours. phones will be replaced by mobile phones. p79 Words that go together hours. phones will be replaced by mobile phones. p79 Words that go together hours. phones will be replaced by mobile phones. p79 Week 11		
### Stressed p76 Exclamations with so and such a low so scared it was such a shock! We had such terrible weather! I've got so much work! p77 Our interactive ### World p78 ### Our interactive World p78 ### Passives Mobile phones are used by almost of billion people. The first mobile phone call was made in 1973. Camera phones have been sold since in 1973. Camera phones will be replaced by mobile phones. p79 #### Words that go together Noun + noun text message, businessman p81 Verb + noun text message, businessman p81 Adverb + adjective well-known, badl-p-bahved p81 Adverb + adjective well-known, badl-p-bahved p81 Adverb + adjective well-known, badl-p-bahved p81 ###################################		
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Week 12 Present Perfect Continuous He's been making programmes since 2007.		
Week 12 Present Perfect Continuous He's been making programmes since 2007.	Week 12	p86
since 2007.		Present Perfect Continuous
חוואי ווחוו חוול לחם מסו אווייו אווייו		Since 2007. How long has she been working
there? p87		
Present Perfect Simple versus Continuous		
He's made three programmes.		He's made three programmes.
He's been teaching for three years. p87		He's been teaching for three years. p87

	Birth, marriage, death pregnant, born engaged, divorced funeral, died of p92 Good news, bad news Congratulations! That's fantastic news! What a shame! I'm so sorry. p93
Week 13	Just wondering p94 First conditional if + will If it's sunny, we'll go for a picnic. We won't go out if it rains. p95 going to and might What are you going to do tonight? I might go out p95 Second conditional if + would If I had a brother, I'd play with him. If I were you, I'd stop smoking. p96 Prepositions connected to on a date listen to think about p100 Thank you and goodbye! It's late. I must be going now. Thank you for a lovely evening. My pleasure! p101
Week 14	Living in a stately home Living history Chatsworth House and the family who call it home p58 A family history David Taylor Bews from Perth, Australia researches his family history p60 What do you think? Stately homes Aristocracy Inherited wealth p58 Talking about you Have you ever? p57 The lives of your grandparents p60 What do you think? Family history p60 A biography Ordering paragraphs: Two Kennedys Researching facts about a famous person and writing a biography

	p111
	Families with all boys or all
	girls
	Sons and daughters
	The parents of four
	daughters swap homes
	with the parents of four
	sons p66
	Heptathlon champion
	An interview with
	Jessica Ennis – Britain's
	first world heptathlon
	champion p65
	What do you think?
Week 15	Talking about successful people p65 Pros and cons of all-girl or all-boy families
	The ideal family p66
	Dress person X
	Describing an outfit p68
	Letters and emails
	Formal and informal
	expressions
	Dear Sir or Madam,
	Yours sincerely,
	Hi Cathy,
	Love Steve
	Writing a formal letter to a
	language school and an email to
	an English friend p112
Week 16	Preparatory week before the final Exam

Learning and Teaching Resources					
مصادر التعلم والتدريس					
	Text	Available in the Library?			
	The core textbook is Soars, John and Liz, (2011), New Headway Plus				
Required Texts	Pre-Intermediate Student's Book, Special Edition, Oxford University	Yes			
	Press				
Recommended	New Headway Plus provides an integrated skills course with each unit				
	divided into grammar, vocabulary, skills work and everyday English	No			
Texts	segments				
	Oxford University Press: The New Headway series is published by Ox	ford University Press. Visit their			
XX7 1 ·4	website at www.oup.com and search for "New Headway Plus, Special Edition, pre-Intermediate				
Websites	browse their English language teaching section for information on the cours				

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



Ministry of Higher Education and Scientific Research - Iraq University of Baghdad College of Science Department of Biology



MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية (اللغة العربيّة)

	/			
Module Information معلومات المادة الدراسية				
Module Title	Arabic Language	Module Delivery		
Module Type	Basic	☑ Theory		
Module Code	UOB201	— — — — — — — — — — — — — — — — — — —		
ECTS Credits	2	☐ Tutorial ☐ Practical		

SWL (hr/sem)	50 Seminar					
	Module Level	2UGx11	Seme		ester of Delivery	1
Administer	ring Department	Biology	College Science		Science	
Module Leader		Dr. Leqaa faleh owdaa	e-mail <u>leqaa.falih@ircoedu.uobaghdad.edu.iq</u>			
Module Lead	der's Acad. Title	Lecturer	Module Leader's Qualification Ph.D.		Ph.D.	
Module Tutor		Name (if available)	e-mail E-mai		E-mail	
Peer Reviewer Name Assistant lecturer. A'laa Sabah Hammood alaa.sabah@sc.t		sc.uobaghdad.edu.iq				
Scientific Committee	e Approval Date	411/06/202	2 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				
	 العربيّة العربيّة العربيّة العربيّة العربيّة العربيّة العربيّة العربيّة. 				
	2- تهدف إلى تأهيل الطلبة بالمعارف والمخرجات الخاصة علم النحو، والصرف، والإملاء؛ لتمكنه				
Module Objectives	من الكتابة الصحيحة والتعبير السليم وتقويم لسانه.				
أهداف المادة الدراسية	3- تهدف إلى تنمية ذوق الطالب الأدبي وإثراء تحصيله وإغناء زاده من الفكر العربي والإسلامي.				
<u> </u>	 4- تهدف إلى تطوير مهارات الطلاب اللغويّة التي تؤهلهم للإبداع المتميز. 				
	5- تهدف إلى تنمية مهارات التحدث بـ (اللغة العربيّة).				
	 6- تهدف إلى الارتقاء بمستوى الطلبة من الجانب المهني والبحثي. 				
	1-التعرف على الظواهر اللغويَّة كونها إحدى خصائص اللغة العربيَّة التي تميزت بها.				
	2- التعرف على قواعد كتابة الألف اللينة في آخر الكلمة، والتمييز بين الألف الطويلة والقصيرة عن طريق ذكر مواضع كل				
Modulo Looming	منهما وتوضيح ذلك بذكر الأمثلة.				
Module Learning	3- التعرف على الإستثناء من حيث تعريفه وأدواته وحكمه وبيان ذلك بالأمثلة التوضيحية.				
Outcomes	4- التعرف على الحال من حيث تعريفه وحكمه وبيان ذلك بالأمثلة التوضيحية.				
	5- التعرف على التمييز من حيث تعريفه وحكمه وبيان ذلك بالأمثلة التوضيحية.				
مخرجات التعلم للمادة الدراسية	 التعرف على المفاعيل الخمسة وبيان أحكامها بكونها من منصوبات الأسماء وبيان ذلك بالأمثلة التوضيحية. 				
	7- التعرف على حروف الجر بكونها من مجرورات الأسماء، والتمييز بين معانيها، وبيان حكمها مع توضيح ذلك بذكر "، عربة"				
	الأمثلة. 9 التعبية بالاسم المذكر والاسم المنتشرين حيث تعبية همان مأقساء همام هذكر الأمثلة التعرض حرة				
	 التعرف على الاسم المذكر والاسم المؤنث من حيث تعريفهما، وأقسامهما مع ذكر الأمثلة التوضيحية. 				

	9- التمييز بين اللام الشمسية واللام القمرية من حيث النطق والكتابة، وذلك من حيث تعريفهما ومعرفة حروف كل منهما.
	10- التعريف بحروف الحذف والزيادة في الكلمة، وبيان ذلك بالأمثلة التوضيحية .
	11- تعريف الطالب بمواضع الوقف في اللغة العربيَّة لما فيه من أهمية لإصال المعلومات إلى المتلقي بشكل صحيح فضلاً
	عن تمكنه من فهم النص فهماً صحيحاً .
	12- تمكين الطالب من معرفة المواضع الإعرابية للكلمات داخل النص، ومعرفة معاني بعض الكلمات، فضلاً عن
	استخراج الأهداف منه.
	13- التعرف على الشاعر المتنبي بكونه من شعراء العصر العباسي.
	11- التعرف على الشاعرة نازك الملائكة بكونها إحدى رواد الشعر الحديث في العراق.
	1997 - 14 - 1997
	- الظواهر اللغوية: التَّرادف ، المشترك اللفظي، التَّضاد.
	 الألف اللينة: الألف الطويلة، الألف القصيرة.
	- الاستثناء.
	- المحال. - الحال.
	- التمبيز - - التمبيز -
Indicative Contents	المفاعيل الخمسة: منصوبات الأسماء ، المفعول به، المفعول فيه، المفعول المطلق، المفعول المطلق، المفعول
	لأجله، المفعول معه.
المحتويات الإرشادية	- حروف الجر: مجرورات الأسماء، معاني حروف الجر.
تتضمن الكلمات المفتاحية	 الاسم المذكر والمؤنث: تعريف الاسم المذكر، والاسم المؤنث، أقسام الاسم المذكر
المهمة للمحاضرات	والمؤنث.
المهمة للمحاصرات	 اللام الشمسية، اللام القمرية، الحذف والزيادة.
	_ الوقف ِ
	- سورة لقمان، إعراب سورة لقمان ، تفسير سورة لقمان.
	- الشاعر المتنبي: حياته، مؤلفاته.
	- الشاعرة نازك الملائكة: حياتها، مؤلفاتها.
	- الساعرة فارك المربعة : حياتها، موتعاتها.

Learning and Teaching Strategies						
استر اتيجيات التعلم والتعليم						
Strategies	الاستراتيجية الرئيسية التي سيتم تبنيها في تقديم هذه الوحدة هي تشجيع الطلاب على المشاركة في التمارين والتطبيقات النحوية والإملانية، مع تحسين مهارات التفكير والتحليل في الوقت نفسه. ويتم تحقيق ذلك عن طريق الفصول والبرامج التعليمية التفاعلية والنظر في أنواع التطبيقات التي تتضمن بعض الأنشطة التي تهم الطلبة.					

Student Workload (SWL)				
الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا				
Structured SWL (h/sem) Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا				
Unstructured SWL (h/sem)	17	Unstructured SWL (h/w)	1.13	

الحمل الدراسي غير المنتظم للطالب خلال الفصل	الحمل الدراسي غير المنتظم للطالب أسبوعيا	
Total SWL (h/sem)	50	
الحمل الدراسي الكلي للطالب خلال الفصل		

Module Evaluation

تقييم المادة الدراسية

As		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
	Quizzes	2	10% (10)	9, 3	8 and 2 ,1 LO #
	Assignments	2	10% (10)	8, 5	6LO # 4 and
Formative	Projects / Lab.	1	10% (10)	Continuous	All
assessment	Report	1	10% (10)	01	,1,2LO # 13 9,10,11,12,7,3,4,5,6, 14 and
Summative	Midterm Exam	hr2	10% (10)	7	6LO # 1-
assessment	Final Exam	hr3	50% (50)	16	All
		Total assessment	100% (100 Marks)		

Delivery Plan (Weekly Syllabus)					
المنهاج الاسبوعي النظري					
Week	Material Cov	vered			
Week 1	الظواهر اللغويّة: الترادف ، المشترك اللفظي، التضاد.				
Week 2	قواعد كتابة الألف اللينة في آخر الكلمة.				
Week 3	الإستثناء.				
Week 4	الحال.				
Week 5	التمييز.				
Week 6	المفاعيل الخمسة: المفعول به، المفعول فيه، المفعول المطلق، المفعول لأجله، المفعول معه.				
Week 7	حروف الجر ومعانيها.				
Week 8	امتحان نصف الفصل.				
Week 9	الاسم المذكر والمؤنث.				
Week 10	الحروف من حيث النطق والكتابة: اللام الشمسية والقمرية، الحذف والزيادة.				
Week 11	الوقف				

Week 12	نص من سورة لقمان.
Week 13	الشاعر المتنبي.
Week 14	الشاعرة نازك الملائكة.
Week 15	مراجعة للمنهج قبل الإمتحان النهائي.
Week 16	امتحان ختامي.

Learning and Teaching Resources					
مصادر التعلم والتدريس					
	Text	Available in the Library?			
Required Texts	القرآن الكريم - الأدب العربي في العصر العباسي: د. ناظم رشيد إعراب القرآن وبيانه: محيي الدين درويش التطبيق الصرفي: د. عبده الراجحي تفسير الكشاف: للزمخشري جامع الدروس العربيّة: الشيخ مصطفى الغلاييني ديوان المتنبي ديوان نازك الملائكة.	Yes			
Texts	- شرح ابن عقيل: ابن عقيل، تحقيق: محمد محي الدين عبد الحميد الشعر العراقي الحديث مرحلة وتطور: د. جلال الخياط - فقه اللغة العربيَّة وخصائصها: د. إميل بديع يعقوب المفيد في أحكام التلاوة والتجويد: القارئ الشيخ رافع العامري الوجيز في اللغة العربيَّة: أ.د. محيي هلال السرحان.	yes			
Websites					

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