# Republic of Iraq - Ministry of Higher Education and Scientific Research University of Misan Bachelor's degree in Agriculture scincel Pant Protection Four years (Eight semesters) - 240 ECTS credits - 1 ECTS = 25 hr Program Curriculum (2024 - 2025)

#### جمهورية العراق . وزارة التطبير العالي والبحث العلمي جماعة ميسان وكمالوريوس علوم زراعة إو قاية نبات اربع سنوات (شائية قسول نراسية) . ٢٠ جود وربية . ١٥ ساعة المشهاج الدراسي للعام ٢٠٠٤

									SSWL (hr/w)				Exam	SSWL	USSWL	SWL				Module	
Level	Semester	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language	CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)	hr/sem	hr/sem	hr/sem	hr/sem	ECTS			Type	Prerequisite Module(s) Code
		- 1	ENTO101	Entomology	علم الحشرات	Arabic	2		3	- 1	- 1		3	108	67	175	7			С	
		2	PRHO102	Principles of Horticulture	ميادي علم البستنة	Arabic	2		3				3	78	97	175	7			B	
		3	GACH103	General chemistry	كيمياء عامه	Arabic	2		3		1		3	93	82	175	7			В	
	One	4	MATH104	Mathematics	رياضيات	Arabic	- 1		2				2	47	78	125	5			S	
		5	UOM120	English Language	اللغة الإنكليزية	English	2						2	32	18	50	2			S	
		6	UOM121	Human rights and public freedoms	حقوق الإنسان والحريات العامة	Arabic	2						2	32	18	50	2			S	
Į				مجموع الساعات الأسبوعية	25	Total	11	0	11	1	2	0	15	390	360	750	30				
									coun	L (hr/w)			_							Module	
UGI	Semester	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language	CL (hr/w)	Lect (hr/w)			Tut (hr/w)	Semn (hr/w)	Exam hr/sem	SSWL hr/sem	USSWL hr/sem	SWL hr/sem	ECTS			Type	Prerequisite Module(s) Code
		1	GBOT107	General Botany	ئيات عام	Arabic	2	Lock (III/III)	3	1	ruc (iii/ii)	1	3	108	67	175	7			C	
		2	PLPB108	Plant protection basics	اساسيات وقاية نيات	Arabic	2		3		1		3	93	82	175	7			С	
	Two	3	SOIL109	Soil Science	علم التربية	Arabic	2		3				3	78	72	150	6			В	
		4	AGEC110	Agricultural Economy	ميادي اقتصاد زراعي	Arabic	2						3	33	92	125	5			В	
		5 6	UOM122 UOM123	Computer Application	تتطبيقات حاسوب	Arabic	2		2				3	48 32	27 18	75 50	3			S S	
			OOM123	Arabic Language مجموع المباعات الأسبوعية	اللغة العربية 25	Arabic Total	11	0	11	-1	- 1	- 1	17	392	358	750	30			5	
, t			L	A Marie and Chair	2.5	Total				•				552	550	100					
Level	Semester	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language			SSWL	(hr/w)			Exam	SSWL	USSWL	SWL	ECTS			Module	Prerequisite Module(s) Code
Level	OCHIESTE:	140.	module odde			Language	CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)	hr/sem	hr/sem	hr/sem	hr/sem				Type	Trerequiate module(a) code
		1	PLPH213	Plant Physiology	فسلجة تبات	Arabic	2		3	1	1		3	108	67	175	7			С	
		2	PMIC214	Principles of Microbiology	مبادئ احياء المجهرية	Arabic	2		3				3	78	97	175	7			С	
	Three	3	PSTA215 MVIN216	Principles of Statistics	ميادئ احصاء	Arabic Arabic	2		3	1			3	33 93	67 82	100	7			B	
		5	MVIN216 UOM222	Medical and Verternary Insects	حشرات طبية ويبطرية تطبيقات في الحاسوب ٢	Arabic Arabic	1		2	1		-	2	93	82 28	175 75	3	-	$\vdash$	S S	
		6	UOM222 UOM220	Computer Application English Language	تطبيعت في الكاموب ١ اللغة الإنكليزية ٢	English	2		0	-			2	32	18	75 50	2			S	
				مجموع الساعات الأسبوعية	25	Total	11	0	11	2	1	0	16	391	359	750	30				
,																					
	Semester	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language				(hr/w)			Exam	SSWL	USSWL	SWL	ECTS			Module	Prerequisite Module(s) Code
UGII				-				Lect (hr/w)		Pr (hr/w)	Tut (hr/w)	Semn (hr/w)	hr/sem	hr/sem	hr/sem	hr/sem				Type	jamana mananaja, oose
		- 1	PLNU219	Plant Nutrition	تغذية نيات	Arabic	2		3				3	93	82	175	7			С	
		2	INCL220	Insects Classification	تصليف حشرات	Arabic	2		3	1			3	93	82	175	7			С	
		3	PRFC221	Principles of Field Crops	مبادئ محاصيل حقانية	Arabic	2		3				3	78	72	150	6			С	
	Four	4	MAAI222	Machinary and Al in Plant Protection	المكننة والذكاء الاصطناعي في وقاية النبات	Arabic	2		3				3	78	72	150	6			С	
		5	MIGUELL	Crimes of the Baath Regime in Iraq	جرائم نظام البعث في العراق	Arabic	2		,				2	32	18	50	2			s	
		6	UOM223	Arabic Language	جرام سم بيما بي سري للغة لعربية ٢	Arabic	2						2	32	18	50	2			s	
				مجموع الساعات الأسيوعية	25	Total	12	0	12	- 1	0	0	16	406	344	750	30				
			•	•																	
Level	Semester	No.	Module Code	Module Name in English	اسع المادة الدراسية	Language				(hr/w)			Exam hr/sem	SSWL	USSWL	SWL	ECTS			Module	Prerequisite Module(s) Code
			GEBI325	Genetic and Biotechnology	الوراثة والثقالات الحيوية			Lect (hr/w)		Pr (hr/w)	Tut (hr/w)	Semn (hr/w)		hr/sem	hr/sem 52	hr/sem 100				Туре	
		1		-		Arabic	2		3				3	48			4			В	
		2	EXDA326	Experiments Design and Analysis	تصميم وتحليل تجارب	Arabic	2		2				3	63	37	100	4			В	
		3	MYCO327 INPH328	Mycology Insects Physiology	قطریات فسلمة هشات	Arabic Arabic	2		3				3	78 78	97 97	175	7			C	
	Five	5	ECSA329	Ecology and Sustainable Agriculture	فسنجه مشرات علم البينة والزراعة المستدامة	Arabic	2		1	1			3	63	97 37	100	4			C	
		6	PAEX330	Principles of Agriculture Extension	مبادئ الارشاد الزراعي	Arabic	2		-	-			2	32	18	50	2			В	
		7	QSAP331	Quality and Safety of Agriculture Projects	جودة وسلامة المشاريع الزراعية	Arabic	2						2	32	18	50	2			s	
Į.				مجموع الساعات الأسيوعية	25	Total	14	0	12	1	0	0	19	394	356	750	30				
									eswi	(hr/w)			Exam	SSWL	USSWL	SWL				Module	
UGIII	eme+B39:V40str	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language	CL (hr/w)	Lect (hr/w)			Tut (hr/w)	Semn (hr/w)	hr/sem	hr/sem	hr/sem	hr/sem	ECTS			Type	Prerequisite Module(s) Code
		- 1	WECO332	Weeds and Control methods	ادغال وطرق مكافحتها	Arabic	2		2				3			125	5			С	
		2	PLPA333	Plant Pathology	امراض ثبات	Arabic	2		3				3			125	5			С	
		3	APIC334	Apiculture	تريية نط	Arabic	2		2				3			125	5			С	
	Six	4	NEMA335	Nematode	ليمالودا	Arabic	2		2				3			125	5			С	
	SIX	5			بينة عشرات		2		3				3			125	5			С	
			INEC336	Insects Ecology		Arabic															
		6	AGMI337	Agricultural Mites	حلم زراعي	Arabic	2		1				3			125	5			С	
				مجموع الساعك الأسيوعية	25	Total	12	0	13	0	0	0	18				30				
									SSWI	L (hr/w)			Exam	SSWL	USSWL	SWL				Module	
Level	Semester	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language	CL (hr/w)	Lect (hr/w)			Tut (hr/w)	Semn (hr/w)	hr/sem	hr/sem	hr/sem	hr/sem	ECTS			Type	Prerequisite Module(s) Code
		1	ORIN438	Orchard Insects	حشرات يسائين	Arabic	2	(	3				3	mount	,		6			C	
		2	PEST439	Pesticides	مييدات	Arabic	2		2				3				5			С	1
										-								-			ļ
		3	STPE440	Storage Pests	اقات مفازن	Arabic	2		3				3				6			С	
	Seven	4	VEGD441	Vegetable Diseases and protected agriculture	امراض خضر وزراعة محمية	Arabic	2	1 -	3	-	1		3				6		1	С	
		5	BIOC442	Biological Control	مقارمة حبوية	Arabic	2		2				3				5			С	1
						Arabic		-		l —	-							l —			
		6	REPR443	Research Projects	مشروع بحث نفرج		1		1								2			С	
		1		مجموع الساعات الأسيوعية	25	Total	11		14				15	0	0	0	30				
UGIII	omo - D20 1/40	P		W-1-1-N	1	Language			SSWL	L (hr/w)			Exam	SSWL	USSWL	SWL				Module	December 10 to 10
	eme+B39:V40ste	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language	CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)	hr/sem	hr/sem	hr/sem	hr/sem	ECTS			Type	Prerequisite Module(s) Code
		- 1	FRDI444	Fruit Diseaese	امراض فاكهة	Arabic	2	3					3	78	47	125	5			С	
				Plant Virology	فايروسات ئيات	Arabic	2	2					3	63	37	100	4			С	
		2	PLVI445				2	3					3	78	97	175	7			c	
					حث ات محاصياً. حقاية							1									
	_	3	CRIN446	Crops Insects	حشرات محاصيل حقلية	Arabic															
	Eight	3	CRIN446 CRDI447	Crops Insects Crops Diseases	امراض محاصيل	Arabic	2	3					3	78	97	175	7			С	
	Eight	3 4 5	CRIN446 CRDI447 IPMA448	Crops Insects Crops Diseases Integcated Pest Management	امراض محاصيل الإدارة المتكاملة للإقات	Arabic Arabic	2						3	78 63	62	175 125	7			С	
	Eight	3	CRIN446 CRDI447	Crops Insects Crops Diseases	امراض محاصيل	Arabic	2	3						78		175	7				
	Eight	3 4 5	CRIN446 CRDI447 IPMA448	Crops Insects Crops Diseases Integcated Pest Management Research Projects	امراض محاصیل الادارة المتکاملة للاقات مشروع بحث تخرج	Arabic Arabic	2 2 2	3						78 63 30	62	175 125 50	7 5 2			С	
	Eight	3 4 5	CRIN446 CRDI447 IPMA448	Crops Insects Crops Diseases Integcated Pest Management	امراض محاصيل الإدارة المتكاملة للإقات	Arabic Arabic Arabic	2	3 2					3	78 63	62 20	175 125	7			С	

# دليل البرنامج الدراسي

2025 - 2024



اسم الجامعة: جامعة ميسان الكلية/ المعهد: كلية الزراعة القسم العلمى: قسم وقاية النبات

اسم البرنامج الأكاديمي أو المهني: بكالوريوس وقاية النبات اسم الشهادة النهائية: بكالوريوس في العلوم الزراعية / وقاية النبات



# ١. رؤية البرنامج

السيطرة على الآفات مع بيئة صحية آمنة.

### ٢. رسالة البرنامج

يسعى القسم من خلال التدريسيين ذوو الكفاءات العلمية إلى نشر المعرفة وتطبيقاتها وتطوير المهارات ذات العلاقة بإدارة الآفات ومكافحتها لتحقيق بيئة زراعية متوازنة تؤمن الأمن الغذائي للمجتمع واستدامتها بإعداد مهندسين زراعيين مؤهلين في مجال وقاية النبات فضلا عن البحوث العلمية والدراسات ذات العلاقة لتعزيز تطبيقات وقاية النبات.

### ٣. أهداف البرنامج

### يهدف قسم وقاية النبات إلى:

- 1- إعداد خريجين مؤهلين من خلال تقديم المقررات الدراسية العلمية والعملية وتطويرها بشكل مستمر لتلبية احتياجات المجتمع وسوق العمل من حيث كيفية استعمال المبيدات في مكافحة الآفات الزراعية في الإدارة المتكاملة بإدخال التطبيقات الحديثة واستعمال الكائنات الحية للحد من الخسائر الاقتصادية التي تحدثها.
- ٢- العمل مع القطاعين العام والخاص والمزارعين والمنظمات المختلفة والإفراد لتطوير التطبيقات المستخدمة في مجال وقاية النبات.
- ٣- تنظيم وإقامة المؤتمرات والندوات والدورات وورش العمل والحلقات الدراسية والزيارات الحقلية التي تعزز من إعداد وتنفيذ برامج الإدارة المتكاملة للآفات في مجال وقاية النبات.
- ٤- المشاركة مع الأقسام العلمية ذات العلاقة في الكلية والجامعة والجامعات العراقية والعربية والعالمية لإعداد نظام
   معرفي متكامل في مجال وقاية النبات من اجل البيئة والتنمية المستدامة وتحقيق الأمن الغذائي.
- ٥- تحديد الاهداف والمتطلبات وتطوير الخريجين لزجهم في مجال تخصصهم مع تقديم الاستشارات العلمية ووضع الحلول لاى عوائق محتملة.

٤. مواصفات البرنامج							
Program Cod	B.Sc. Plant Protection	ECTS	240				
Duration	4 levels 8 semesters	Method of Attendance	Full Time				

و التعلم المتوقعة للبرنامج	٥. مخرجات
ناتج التعلم	مفرجات التعلم (المواصفات المرجوة)

المعرفة		
تمكين الطلبة من تعريف وتشخيص الآفات الزراعية وطرق التقليل من ضررها.	فهم وقاية النبات.	ع۱
معرفة الطلبة بالمسببات المرضية، وتطوير الاستراتيجيات والطرق الفعالة للمحافظة على النباتات.	فهم الحالة المرضية للنبات وقدرة الطالب على تطبيق مفاهيم المكافحة على أمثلة عملية.	48
معرفة الطلبة بالآفات الحشرية. وتطوير الاستراتيجيات والطرق الفعالة للمحافظة على النباتات	معرفة اهم الأفات الحشرية التي تصيب النباتات.	۳۶
معرفة الطلبة في كيفية تأثير العوامل المناخية على صحة النبات ودورها في نشر المسببات المرضية والآفات.	معرفة علاقة العوامل المناخية مع صحة النبات.	ع٤
الهمارة		
تطبيق استدامة الزراعة واستخدام الموارد المانية بكفاءة وتقليل الضانعات.	قدرة الطلاب على تطبيق التقنيات الزراعية المستدامة في العمل العملي.	۱۹
سيقوم الطلاب بتحليل تأثير الأعمال البشرية على تدهور النبات، ودراسة العلاقات بين الانسان والمسببات المرضية والآفات والنبات.	إدراك تأثير الانسان في نشر المسببات المرضية والآفات، وتداخلات البيئة الطبيعية.	م۲
تطوير خطط فعالة لوقاية النبات.	قدرة الطلاب على تطبيق مهارات التخطيط والتنظيم في مشاريع وقاية النبات	۳۵
تطوير حلول جديدة وفعالة لوقاية النبات	قدرة الطلاب على تطبيق مهارات البحث العلمي للعثور على حلول جديدة.	4 ع
القيم		
تحقيق التوازن بين احتياجات الحاضر واحتياجات المستقبل.	قدرة الطلاب على تطبيق مفاهيم الاستدامة في حياتهم اليومية.	ق ۱
استكشاف الطلاب أساليب منع الامراض والآفات وإشراك الآخرين في معالجة المشكلة.	تعلم كيفية رفع مستوى الوعي ومكافحة المسببات المرضية والأفات الحشرية.	ق۲
تحسين سبل العيش والاستدامة للمجتمعات المتضررة من الآفات والامراض النباتية مع المحافظة على الانتاج السليم للنبات نوعا وكما.	قدرة الطلاب على تطبيق أساليب دعم سبل العيش في مشاريع عملية.	ق۳
تحقيق الأهداف المشتركة من خلال التعاون والتضامن.	قدرة الطلاب على التفاعل بشكل فعّال مع الآخرين والمشاركة في مشاريع جماعية.	ق ٤
د ا در ا بادر ا		

### ٦. استراتيجيات التعليم والتعلم

### في المعرفة

الإلقاء والمشاهدات الحقلية والصورية والتدريب والبحث والعصف الذهني والمناقشة والعمل ضمن مجموعات.

### في الممارة

تشخيص المسببات المرضية والآفات الحشرية والتدريب والتكليفات الدورية والبحث وعروض تقديمية والمناقشة.

### في القيم

التدريب والتحليل والبحث وكتابة التقارير والمقالات العلمية والعمل الفردي والجماعي والعصف الذهني.

## ٧. طرائق التقييم

## في المعرفة

الامتحانات والتكليفات والمناقشة.

# في الممارة

الامتحانات والتكليفات والمناقشة وأوراق العمل.

# في القيم

كتابة بحث علمي فردي وجماعي والامتحانات والملاحظة وتقييم Rubric.

# ٨. الهيئة التدريسية

				أعداد الهيئة التدريسية	
الرتبة العلمية	التخصص		المتطلبات/ المهارات	أعداد الهيئة الت	تدريسية
	عام	خاص	الخاصة (ان وجدت)	ملاك	محاضر
أ. د. غسان مهدي داغر	وقاية النبات	امراض نبات	-	۲.	لا يوجد
أ. م. د. طلال حسين صالح	فطريات	فطريات طبية	-		
أ. م. د. ضرغام صبيح كريم	محاصيل حقلية	انتاج محاصيل	-		
أ. م. د. عبد الكريم قاسم جبر	وقاية النبات	امراض نبات	-		
أ. م. د. علي حسن حرفش	وقاية النبات	حشرات	-		
أ.د. علي عذافة طعمة	وقاية النبات	امراض نبات	-		
م. د. فرحان جاسم محمد	وقاية النبات	حشرات	-		
أ.م. د. علي عباس هاشم	مكائن ومعدات	ساحبات وقوى	-		
م. د. علاء كاظم فرحان	علوم زراعية	اقتصاد زراعي	-		
م. د. حیدر خلف محمد	التربة والموارد المائية	خصوبة تربة	-		
أم.د. أحمد مالك جمعة	وقاية النبات	امراض نبات	-		
م. كرار أكرم كامل	علوم حياة	نبات	-		
م.م. ورود جبار عيدان	محاصيل حقلية	وراثة نبات	-		
م.م. صلاح عبد الحسن غيلان	بستنة وهندسة حدائق	فسلجه فاكهة	-		
م.م. علي حسين علي نعمة	وقاية النبات	حشرات	-		
م.م. محمد عبد الحسن بريسم	وقاية النبات	امراض نبات	-		
م.م. نجلاء زکي منور	محاصيل حقلية	محاصيل حقلية	-		
م.م. محمد حمدان غضبان	وقاية النبات	امراض نبات	-		
م.م. نورین عبدالزهرة حسن	وقاية النبات	امراض نبات	-		
م.م. وداد مارد حمود	وقاية النبات	حشرات	-		

### 9 الاعتمادات والدرجات والمعدل التراكمي

يتم تجميع الدرجات في الفصل من خلال التقييم التكويني الذي يشمل ٤٠ درجة والتقييم التحصيلي الذي يشمل ٢٠ درجة يقسم ١٠ درجات على امتحان نصف الفصل و ٥٠ درجة للامتحان النهائي وتكون درجة النجاح الصغرى ٥٠ لكل مادة دراسية. وتكون التقديرات حسب الجدول التالي:

Grade	Description	الدرجة / الوصف	التقدير
A - Excellent	Outstanding Performance	19.	امتياز
B - Very Good	Above average with some errors	۸۰ اقل من ۹۰	جيد جدا
C – Good	Sound work with notable errors	۷۰ ـ اقل من ۸۰	جيد
D – Satisfactory	Fair but with major shortcomings	۲۰ ـ اقل من ۷۰	متوسط
E – Sufficient	Work meets minimum criteria	٥٠ - اقل من ٦٠	مقبول
FX - Fail (Conditional pass)	Credit awarded after submitting extra work	<ul> <li>بعد معالجة حالة الطالب</li> <li>الحاصل على درجة من ٥٠-٩٤</li> <li>من قبل استاذ المادة.</li> </ul>	مقبول بقرار
F – Fail	Considerable amount of work required	اقل من ٥٠ (راسب)	ضعيف

\*ملاحظة: يجبر كسر الدرجة النهائية للمادة الدراسية الى أقرب درجة صحيحة.

اما معدل التخرج فيحسب من خلال: -

١- يحسب معدل التخرج (CGPA) للطالب بجمع ناتج ضرب درجة كل مادة دراسية بوزنها من عدد الوحدات (ECTS) لكل المستويات الدراسية ، ثم يقسم الناتج على عدد الوحدات المطلوبة لكامل برنامج الدراسة الواردة في الفقرة (١) من البند أو لا من هذا الفصل و كما هو مبين في المعادلة ادناه:

اذا ما كان الطالب قد اكمل البرنامج الدراسي للبكالوريوس ذي الاربع سنوات تصبح المعادلة:

معدل التخرج = 
$$\frac{\text{مجموع ضرب}\left(\text{عدد وحدات المادة الدر اسية} \times \text{ درجة المادة}\right)}{\text{Y$.}}$$

\*ملاحظة: لا يجوز جبر كسور الدرجة إلى درجة صحيحة عند حساب المعدل

# 10. المواد الدراسية Modules

### Semester1/30ECTS/1ECTS=25H

√lodule Code	Module Name in English	اسم المادة الدراسية	Language	SSWL	USSWL	ECTS	Module Type	Prerequisite Module(s) Code
ENTO101	Entomology	علم الحشرات	Arabic	108	67	7	С	
PRHO102	Principles of Horticulture	مبادي علم البستنة	Arabic	78	97	7	В	
GACH103	General chemistry	كيمياء عامه	Arabic	93	82	7	В	
MATH104	Mathematics	رياضيات	Arabic	47	78	5	S	
UOM120	English Language	اللغة الانكليزية	Arabic	32	18	2	S	
UOB121	Human rights and public freedoms	حقوق الإنسان والحريات العامة	English	32	18	2	S	

### Semester2/30ECTS/1ECTS=25H

Module Code	Module Name in English	اسم المادة الدراسية	Language	SSWL	USSWL	ECTS	Module Type	Prerequisi te Module(s) Code
GBOT107	General Botany	نبات عام	Arabic	108	67	7	С	
PLPB108	Plant protection basics	اساسيات وقاية نبات	Arabic	93	82	7	С	
SOIL109	Soil Science	علم التربة	Arabic	78	72	6	В	
AGEC110	Agricultural Economy	مبادي اقتصاد زراعي	Arabic	33	22	5	В	
UOM122	Computer Application	تطبيقات حاسوب	Arabic	48	27	3	S	
UOM123	Arabic Language	اللغة العربية	Arabic	32	18	2	S	

Module type

В	Basic learning activities
C	Core learning activity
S	Support or related learning activity
Е	Elective learning activity

11. اتصال

Program Manager: Farhan Jasim Mohammed AL-Behadili

Email: <a href="mailto:farhanalhakim@uomisan.edu.iq">farhanalhakim@uomisan.edu.iq</a>

Mobile No.: +9647715315352

Program Coordinator: : Karrar Akram Kamil

Email: karar.akram@uomisan.edu.iq

Mobile no.: +9647827212718

# لليل المواد الدراسية | 2024-2025 الدراسية المواد المواد

# University of Misan جامعة ميسان



First Cycle – Bachelor's Degree (B.Sc.) – in

## Agricultural Sciences/ Plant Protection

بكالوريوس في العلوم الزراعية / وقاية النبات



#### **Table of Contents**

- 1. Overview
- 2. Undergraduate Modules 2024-2025
- 3. Contact

#### 1. Overview

This catalogue is about the courses (modules) given by the program of Agricultural Sciences/ Plant Protection to gain the Bachelor of Agricultural Sciences/ Plant Protection. The program delivers (49) Modules with (6000) total student workload hours and 240 total ECTS. The module delivery is based on the Bologna Process.

نظرة عامة

يتناول هذا الدليل المواد الدراسية التي يقدمها برنامج وقاية النبات للحصول على درجة بكالوريوس في العلوم الزراعية . يقدم البرنامج (49) مادة دراسية، على سبيل المثال، مع (٦٠٠٠) إجمالي ساعات حمل الطالب و ٢٤٠ إجمالي وحدات أوروبية. يعتمد تقديم البرنامج الدراسي على عملية بولونيا.

#### Module 1

Code	Course/Module Title	ECTS	Semester
ENTO101	Entomology	7	1
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/sem)
2	5	108	67

#### Description

Introducing the student to Entomology. Introducing the student to the insects characteristics. Introducing the student to benefits and harms of insects. Dealing with insects using scientific methods.

#### Module 2

Code	Course/Module Title	ECTS	Semester
PRHO102	Principles of Horticulture	7	1
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/sem)
2	3	78	97

#### **Description**

the subject aims to identify fruit trees, vegetables and ornamental plants. Identify their parts, shapes and methods of reproduction. Introduce the student to the different agricultural processes carried out on plant species before and after planting. Introduce the student to modern agricultural techniques and identify their advantages and disadvantages. Introduce the student to the different service processes provided to the plant such as irrigation, fertilization and pest control processes.

#### Module 3

Code	Course/Module Title	ECTS	Semester
GACH103	General chemistry	7	1
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/sem)
2	4	93	82

#### Description

The Module includes Definition the student to Analytical chemistry. Definition the student to Chemicals used in the analysis. Definition the student to Quantitative and qualitative estimation of the elements or compounds. Definition the student to Organic chemistry. Definition the student to biochemical molecules

#### Module 4

Code	Course/Module Title	ECTS	Semester	
MATH104	Mathematics	5	1	
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)	
1	2	47	78	

#### Description

To enable the student to solve the mathematical problems. To provide a suitable type of discipline in the mind of the learners. To prepare the student for various technical profession. To prepare the student for economic purposeful, productive, creative, and constructive living. To develop in the power of thinking and reasoning.

#### Module 5

Code	Course/Module Title	ECTS	Semester
UOM120	English Language	2	1
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/sem)
2		32	18

#### Description

The aim of this course is to provide English learners with integrated language skills such as reading, listening and writing resulting in a level of basic language knowledge. This course will focus on grammar rules, basic word knowledge and usage, reading comprehension, reading out of the lesson, and Paragraph writing. A student may be able to listen to native speakers and speak English Language. A student may be able to write and have creativity in his writing.

#### Module 6

Code	Course/Module Title	ECTS	Semester
UOM121	Human rights and public freedoms	2	1
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/sem)
2	0	32	18

#### Description

Introducing students to the concept of freedom and democracy and their origins. Introducing students to human rights and democracy in ancient civilizations. Introducing students to human rights in divine laws and religions. Emphasizing the features and characteristics of human rights and the extent of their application in power. Emphasizing the application of freedom and democracy in their correct concept according to the societal perspective.

#### Module 7

Code	Course/Module Title	ECTS	Semester
GBOT107	General Botany	7	2
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/sem)
2	5	108	67

#### Description

The module aims to Introduce the student to the concept of botany & the branches of botany. Understanding the relationship of Botany and other agriculture applied sciences and agriculture technologies. Recognizing the plant cell and its living and non-living components. Studying the plant tissues. Identify the principles of plant morphology.

Studying this course is very important to provide the main principles for acquiring the skills and knowledge necessary for the graduate to succeed in competing in the labor market.

Protecting plants from pests and environmental damage, agricultural production, caring for gardens and fruit orchards, as well as cultivation in greenhouses is based on a correct understanding of botany.

#### Module 8

Code	Course/Module Title	ECTS	Semester	
PLPB108	Plant Protection Basics	7	2	
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/sem)	

2	4	93	82

#### Description

Learn about the most important pests and diseases spread in Iraq and the world and the types of their causes. It classifies the types of pests and diseases according to their causes, their cycle of life, or the nature of their reproduction. The student separates the types of pests and diseases and the most important methods used to reduce their impact on crop productivity. Knows the scientific methods used to reduce the damage of pests and diseases by first adopting preventive methods. The student evaluates the cost of chemical control, the type of pesticides used, the method of control, additions, and devices.

#### Module 9

Code	Course/Module Title	ECTS	Semester
SOIL109	soil science	6	2
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/sem)
2	3	78	72

#### Description

The study of soil science as a branch of agricultural sciences represents the basic part in the cultivation and productivity of crops, as well as in terms of interaction with other agricultural sciences in terms of the activity of organisms living in the soil or the chemical reactions occurring in it, and addressing the most important physical properties resulting from natural or chemical weathering processes during the stages of soil formation. Soil science is in fact a group of separate sciences that are interdependent. The term soil refers to the materials exposed to the weathering process that are located within the outer crust of the Earth's surface and are initially formed from the decomposition and breakdown of rocks by physical and chemical processes.

#### Module 10

Code	Course/Module Title	ECTS	Semester	
AGEC110	Agricultural Economy	5	2	
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/sem)	
2		33	92	

#### Description

Introduce students to the importance of agricultural economics Introducing students to the agricultural economic problem and its most important causes. Definition of economic and non-economic resources and their uses among alternatives. Definition of the productive function and the first principles of selection. Introducing students to the nature of production costs. Introducing students to the importance of farm planning and its most important objectives. Definition of the laws of decreasing yields and successive stages

#### Module 11

Code	Course/Module Title	ECTS	Semester	
UOM122	Computer Application 1	3	2	
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/sem)	
2	1	48	27	

#### Description

Introducing the student to the basics of computers and types of computers Its classification, operating systems and objectives. As for the goals of the practical side It is to provide the student with skills in using operating and application programs and how to maintain computer security.

#### Module 12

Code	Course/Module Title	ECTS	Semester	
UOM123	Arabic Language 1	2	2	
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/sem)	
2	0	32	18	

#### Description

The importance of the Arabic language for scientific specializations and its advantage among living languages Avoiding common mistakes and correct pronunciation.

### Contact

#### **Program Manager:**

Farhan Jasim Mohammed AL-Behadili Email: farhanalhakim@uomisan.edu.iq

Mobile no.:+9647715315352

#### **Program Coordinator:**

Karrar Akram Kamil

Email: karar.akram@uomisan.edu.iq

Mobile no.: +9647827212718



# **MODULES DESCRIPTION**

وصف المواد الدراسية قسم وقاية نبات

2024 - 2025

# MODULE DESCRIPTION FORM

# نموذج وصف المادة الدراسية

## **Module Information:**

Module Information معلومات المادة الدر اسية						
<b>Module Title</b>		Entomology		Modu	ıle Delivery	
Module Type		Core			<b>⊠</b> Theory	
<b>Module Code</b>		ENTO101			☐ Lecture	
<b>ECTS Credits</b>		7			<b>⊠</b> Lab	
				☐ Tutorial		
SWL (hr/sem)	/L (hr/sem) 175				☑ Practical	
				☐ Seminar		
<b>Module Level</b>			Semester of	f Deliver	·y	
Administering De	epartment	plant Protection	College		College of Agr	iculture
Module Leader	Ali H	Iussein Ali	e-mail	<u>Ali</u>	hussain@uom	isan.edu.iq
Module Leader's	Acad. Title	Assistant Lecturer	Module Leader's Qualification MS.0		MS.C	
<b>Module Tutor</b>		N.A	e-mail N.A			
Peer Reviewer Na	ame	N.A	e-mail N.A			
Scientific Commi Date	ttee Approval	1 / 10 /2024	Version Number			

### **Relation with other Modules**

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 الدر اسية	1.Definition the student to Insects. 2.Definition the student to the insects characteristics. 3.Definition the student to benefits and harms of insects. 4.Dealing with insects using scientific methods.  Students will learn: 1.Knowledge of terms using in entomology.						
Module Learning Outcomes  مخرجات التعلم للمادة الدراسية	2. The possibility of classifying insects in a scientific way.  3. He can distinguish different species and learn about their environments.  4. Identify the internal parts of insect bodies.  • Raising insects in the laboratory and studying their life.  6. Characterize damage caused by insects.  7. How to deal with insects.  8. Identify insect collecting areas.  9. Methods of hardening and collecting insects.  10. Conveying information about insects to society in a scientific manne.						
Indicative Contents المحتويات الإرشادية	<ol> <li>1.It can distinguish damage caused by insects.</li> <li>2.How to deal with insects.</li> <li>3.Methods of collecting insects.</li> <li>4.The relationship of insects with other organisms.</li> <li>5.Distinguishing between hamful and beneficial insects.</li> </ol>						

# **Learning and Teaching Strategies:**

Learning and Teaching Strategies					
استر اتيجيات التعلم والتعليم					
Strategies	1.Using the method of delivering information through lecture				
	2. Students participate in obtaining information by asking them to submit scientific reports.				
	3. Training students on the method of logical discussion to reach results.				
	4. Learning through applied field practices.				

# Student Workload (SWL):

Student Workload (SWL)					
الحمل الدراسي للطالب محسوب لـ ١٥ أسبوعا					
Structured SWL (h/sem)	100	Structured SWL (h/w)	7.0		
الحمل الدراسي المنتظم للطالب خلال الفصل	108	الحمل الدراسي المنتظم للطالب أسبوعيا	7.2		
Unstructured SWL (h/sem)	67	Unstructured SWL (h/w)	4.47		
الحمل الدراسي غير المنتظم للطالب خلال الفصل	67	الحمل الدراسي غير المنتظم للطالب أسبوعيا	4.47		
Total SWL (h/sem)					
الحمل الدراسي الكلي للطالب خلال الفصل					

# **Module Evaluation:**

<b>Module Evaluation</b>							
	تقييم المادة الدراسية						
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome		
Formative	Quizzes	2	10% (10)	6 and 13	LO #1, #2 and #8, #9		

assessment	Assignments	2	10% (10)	5 and 11	LO #5, #6 and #9, #10
	Projects / Lab.	2	10% (10)	Continuous	All
	Report	2	10% (10)	11	LO #5, #6 and #7, #8
Summative	Midterm Exam	2hr	10% (10)	7	LO #1 - #7
assessment	Final Exam	3hr	50% (50)	16	All
Total assessment		100% (100 Marks)			

Delivery Plan (Weekly Syllabus)					
	المنهاج الاسبوعي النظري				
	Material Covered				
Week 1	The taxonomic position of insects, their relationships , and their relationship to the arthropod				
	phylum, The importance of insects, their spread, benefits, and harms.				
Week 2	External appearance, body wall, body protrusions, insect colors.				
Week 3	Areas of the body, . Structure of the head and its appendages, Structure of the antennae, Structure of the mouth parts.				
Week 4	Structure of the thorax and its appendages and appendages. Structure and growth of the wings. The process of flight. Structure of the legs.				
Week 5	Structure of the abdomen and its related appendages, reproductive appendages and				
	non-reproductive appendages.				
Week 6	Internal anatomy of the digestive system, Circulatory device				
Week 7	examination				
Week 8	Internal anatomy, nervous system, excretory system.				
Week 9	. Internal anatomy The respiratory system The muscular system.				
Week 10	Internal anatomy of the reproductive system, types of reproduction in insects.				
Week 11	Insect behavior.				
Week 12	Metamorphosis in insects, types of metamorphosis, embryonic development.				
Week 13	Insect communities and parental care of young.				

Week 14	Insect division and division table.
Week 15	A field tour to learn about insects in their environment.
Week 16	Final exam.

	Delivery Plan (Weekly Lab. Syllabus)				
	المنهاج الاسبوعي للمختبر				
	Material Covered				
Week 1	Tools for collecting, carrying and preserving insects and types of insect groups.				
Week 2	Location of insects from the animal world and the arthropod phylum, the external appearance of the insect, body regions.				
Week 3	The head and its appendages, types of antennae.				
Week 4	Types of mouth parts in adult insects.				
Week 5	Chest rings and their structure, types of wings and their modifications, types of legs and their modifications.				
Week 6	Abdominal rings and appendages. Mating appendages, such as reproductive organs.  Non-mating appendages, such as anal horns and pens.				

Learning and Teaching Resources مصادر التعلم والتدريس							
	Text Available in the Library?						
Required Texts	Entomology/ Professor Dr. Osama Baharith.  Entomology /Translated by Dr. Ali Shaalan and Dr. Saadi Muhammad Hilal.	NO					
Recommended Texts							
Websites							

# **Grading Scheme**

## مخطط الدرجات

			1	
Group	Grade	التقدير	Marks %	Definition
	A - Excellent	امتياز	90 - 100	Outstanding Performance
	<b>B</b> - Very Good	جيد جدا	80 - 89	Above average with some errors
Success Group	,			
•	C - Good	جيد	70 - 79	Sound work with notable errors
(50 - 100)				
	<b>D</b> - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group	<b>FX</b> – 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

**Note:** Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

# MODULE DESCRIPTION FORM

# نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية							
Module Title	Principles of Horticulture		ure	Module Delivery			
Module Type		Basic	⊠ Theory				
Module Code		PRHO102		⊠ Lecture			
ECTS Credits		7			⊠ Lab		
SWL (hr/sem)	r/sem) 175				□Tutorial  ☑ Practical  □Seminar		
Module Level		1	Semester of Delivery 1		1		
Administering Dep	partment	Plant Protection	College	College Agriculture			
Module Leader	Salah Abdull	hasan Ghailan	e-mail	salah.g	salah.ghilan@uomisan.edu.iq		n.edu.iq
Module Leader's	Module Leader's Acad. Title Assistant		Module Lea	dule Leader's Qualification M.SC		M.SC	
Module Tutor N.A e-r		e-mail	N.A				
Peer Reviewer Name N.A		e-mail	N.A				
Scientific Committee Approval Date		10/10/2024	Version Number 1.0				

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

Module Aims, Learning Outcomes and Indicative Contents					
	أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية				
Module Objectives أهداف المادة الدراسية	<ol> <li>Identify fruit trees, vegetables and ornamental plants.</li> <li>Identify their parts, shapes and methods of reproduction.</li> <li>Introduce the student to the different agricultural processes carried out on plant species before and after planting.</li> <li>Introduce the student to modern agricultural techniques and identify their advantages and disadvantages.</li> <li>Introduce the student to the different service processes provided to the plant such as irrigation, fertilization and pest control processes.</li> </ol>				
Module Learning Outcomes  مخرجات التعلم للمادة الدراسية	<ol> <li>Urging students to obtain information about horticultural crops from some scientific sites via the Internet.</li> <li>Using modern means in giving lessons, such as a data display device, to learn about appearance and parts of horticultural plants.</li> <li>Using modern agricultural techniques in the production and propagation of fruit trees, vegetable crops and ornamental plants.</li> <li>Using adaptive environments to produce different horticultural plants out of season.</li> </ol>				
Indicative Contents المحتويات الإرشادية	Horticultural crops are among the most important food basket crops. The main objective of this course is to teach students how to increase production and improve quality by introducing modern agricultural techniques such as tissue culture and soilless cultivation, choosing the appropriate variety and the appropriate cultivation method at the appropriate time, in addition to carrying out appropriate agricultural service operations and controlling the specific environmental conditions for production by providing adapted agricultural environments that suit the requirements of the cultivated crop.				

Learning and Teaching Strategies استراتیجیات التعلم و التعلیم				
<ol> <li>Lectures and tutorials are presented through a PowerPoint presentation that includes information, pictures, diagrams and videos.</li> <li>Raise questions about the lecture topic in order to open discussion with students.</li> <li>At the end of each lecture, a quick quiz on the lecture topic is conducted.</li> </ol>				
Student Workload (SWL)  الحمل الدراسي للطالب محسوب لـ ١٥ أسبوعا				

Structured SWL (h/sem)  الحمل الدراسي المنتظم للطالب خلال الفصل	78	Structured SWL (h/w)  الحمل الدراسي المنتظم للطالب أسبوعيا	5
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	97	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	3.33
Total SWL (h/sem)  الحمل الدراسي الكلي للطالب خلال الفصل		175	

## **Module Evaluation**

# تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
	Quizzes	3	10% (10)	3, and 6 and 9	LO #1, #2 and #3 , #4 and #5 , #6
Formative	Assignments	3	10% (10)	5,10 and 15	LO #8 and #9 and #14
assessment	Projects: Practical	1	10% (10)	Continuous	All
	Report	2	10% (10)	12	LO #10, #11 and #12
Summative	Midterm Exam	2hr	10% (10)	7	LO #1 - #7
assessment	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)						
	المنهاج الاسبوعي النظري					
	Material Covered					
Week 1	Introducing the student to the axes of horticulture, history and stages of development of					

	horticulture.
Week 2	The student will learn about the classification of horticultural plants.
Week 3	The student will learn about the role of environmental factors and their impact on the production of horticultural crops.
Week 4	The student will learn about the methods of reproduction of horticultural plants (sexual and vegetative reproduction) including organic farming.
Week 5	The student will learn about nurseries, field cultivation patterns, landscape ,ornamental and medicinal plants.
Week 6	The student should learn about the different agricultural operations that are carried out before and after planting.
Week 7	The student will learn about agriculture under air-conditioned environments.
Week 8	The student should learn with the dates and methods of harvesting, picking, and marketing.
Week 9	The student should learn about the post-harvest processes such as storage and preservation.
Week 10	The student will learn with an overview of the horticultural plant breeding and improvement programs.
Week 11	The student will identify examples of fruit trees (deciduous, perennial).
Week 12	The student will be able to identify examples of vegetable plants (strategic crops).
Week 13	The student will be introduced to examples of trees, shrubs, ornamental plants and landscape.
Week 14	The student will learn about examples of medicinal and aromatic plants.
Week 15	The student will become learnt with orchards, fields and various garden facilities (greenhouses, plastic houses, wooden shades, etc.)
Week 16	Preparatory week before the final Exam

Delivery Plan (Weekly Practical Syllabus)					
	المنهاج الاسبوعي التطبيقي في الحقل				
	Material Covered				
Week 1	Preparing the soil suitable for growing horticultural crops.				
Week 2	Determine the appropriate methods for planting horticultural crops by choosing the appropriate distances and lines between plants, as well as choosing the appropriate variety				

	and timing.
Week 3	Applying the process of planting seeds or seedlings in the open field and identifying the appropriate depth of digging and planting for each type.
Week 4	A field visit to the horticultural facilities to learn about their components, dimensions, and differences, as well as their uses.
Week 5	Introducing students to the types of pollination between horticultural crops through field practices on some plant species.
Week 6	Applying a number of important agricultural operations in the open field, such as irrigation, fertilization, pest control, etc.
Week 7	Enabling students to distinguish between different plant species and geniuses outwardly by distinguishing between their parts such as leaves, flowers, fruits, etc.
Week 8	Introducing the student to modern agricultural technologies such as hydroponics and learning about its systems and working principle through actual field observations.
Week 9	Introducing the students to a number of agricultural operations carried out on fruits after harvest such as sorting, storage, preservation, packaging, etc.
Week 10	Providing students with a brief overview of the breeding and improvement programs conducted in the field on some horticultural species with the aim of improving some fruiting and other properties in horticultural plants.
Week 11	Introducing the student to some available fruit trees such as date palms, jujubes, and others to view their various plant parts.
Week 12	Introducing the student to some of the different vegetable crops grown such as legumes, cucurbits, etc. to identify them and distinguish their shoot system.
Week 13	Introducing the student to some different seasonal and perennial flowering plants and others to learn about them and their environmental requirements.
Week 14	Introducing the student to some elements of garden engineering and its infrastructure, in addition to viewing models of modern garden designs.
Week 15	Introducing students to some models of organic farming and identifying its conditions and advantages compared to conventional farming.

# **Learning and Teaching Resources**

مصادر التعلم والتدريس						
	Available in the Library?					
Required Texts	Peter, K. V. (2009). <i>Basics of horticulture</i> . New India Publishing.	yes				
Recommended Texts	Maldonado, A. I. L. (Ed.). (2012). <i>Horticulture</i> . BoD–Books on Demand.	yes				
Websites	https://camosun.libguides.com/horticulture/websites https://horticulture.ap.nic.in/					

Grading Scheme								
	مخطط الدرجات							
Group	Grade	التقدير	Marks %	Definition				
	A - Excellent	امتياز	90 - 100	Outstanding Performance				
Success Group	<b>B</b> - Very Good	جيد جدا	80 - 89	Above average with some errors				
(50 - 100)	C - Good	جيد	70 - 79	Sound work with notable errors				
(33,337)	<b>D</b> - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings				
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria				
Fail Group	<b>FX</b> – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded				
(0 – 49)	<b>F</b> – Fail	راسب	(0-44)	Considerable amount of work required				

**Note:** Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

# MODULE DESCRIPTION FORM

# نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية							
<b>Module Title</b>	General Chemistry			Module Delivery			
Module Type		Basic					
<b>Module Code</b>		GACH103	☐ Lecture				
<b>ECTS Credits</b>		7			<b>⊠</b> Lab		
					□ Tutorial		
SWL (hr/sem)	SWL (hr/sem)		175		☑ Practical		
				☐ Seminar			
<b>Module Level</b>		Semester of I		f Deliver	у		
Administering De	epartment	Plant Protection	College	College of Agriculture		riculture	
Module Leader	Ayat Ja	wdat Kadhim	e-mail	ayat.jawdat@uobasrah.edu		asrah.edu.iq	
Module Leader's Acad. Title		Assistant Lecturer	Module Leader's Qualification		MS.C		
Module Tutor		N.A	e-mail N.A				
Peer Reviewer Name		N.A	e-mail N.A				
Scientific Committee Approval Date		/ /2024	Version Number 1				

## **Relation with other Modules**

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	<ol> <li>Definition the student to Analytical chemistry.</li> <li>Definition the student to Chemicals used in the analysis.</li> <li>Definition the student to Quantitative and qualitative estimation of the elements or compounds.</li> <li>Definition the student to Organic chemistry.</li> <li>Definition the student to biochemical molecules</li> </ol>			
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	5. The basics, ideas and basic concepts of soil general Chemistry. 6. The importance of the chemical elements in the composition of the plant. 7. Methods of pH for buffer solution . 8. Acids and bases indicator . 9. Titration and it is importance in find the concentration of solution. 10. Types of chemical bonds. 11. Types of hybridization between chemical molecules 12. Distinguish between hydrocarbons and hydrocarbon derivatives. 13. Distinguish between aliphatic and aromatic hydrocarbons. 14. Alkanes, alkenes and alkynes. 15. Distinguish between animal and plant cells. 16. Life molecules that make up the body of a living organism. 17. Carbohydrates, proteins, Lipids, DNA, and enzymes			
Indicative Contents المحتويات الإرشادية	Introduction about the quantum chemistry Solutions and methods for calculation concentration Ionic balance Indicator Solubility Introduction about the organic chemistry Alkanes, alkenes and alkynes Aromatic hydrocarbons Cells Water			

Carbohydrates
proteins
Lipids
DNA
Enzymes

# **Learning and Teaching Strategies:**

Learning and Teaching Strategies			
استراتيجيات التعلم والتعليم			
Strategies	The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. This will be achieved through classes, interactive tutorials and by considering types of simple experiments involving some sampling activities that are interesting to the students.		

# **Student Workload (SWL)**:

Student Workload (SWL)					
الحمل الدراسي للطالب محسوب لـ ١٥ أسبوعا					
Structured SWL (h/sem)	0.2	Structured SWL (h/w)			
الحمل الدراسي المنتظم للطالب خلال الفصل	93	الحمل الدراسي المنتظم للطالب أسبوعيا	6.2		
Unstructured SWL (h/sem)	0.2	Unstructured SWL (h/w)			
الحمل الدراسي غير المنتظم للطالب خلال الفصل	82	الحمل الدراسي غير المنتظم للطالب أسبوعيا	5.5		
Total SWL (h/sem)					
الحمل الدراسي الكلي للطالب خلال الفصل	الحمل الدر اسي الكلي لل				

# **Module Evaluation:**

# **Module Evaluation**

# تقييم المادة الدراسية

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

	Delivery Plan (Weekly Syllabus)				
	المنهاج الاسبوعي النظري				
	Material Covered				
Week 1	Introduction about the quantum chemistry				
Week 2	Ionic balance				
Week 3	Acid and Base, pH of the solution & Indicator				
Week 4	Solubility and dissolution constant				
Week 5	Introduction of Organic Chemistry				
Week 6	Saturated Hydrocarbons 'AlKanes'				
Week 7	unSaturated Hydrocarbons 'AlKenes'				
Week 8	unSaturated Hydrocarbons 'AlKynes'				
Week 9	Aromatic Comopounds				

Week 10	Cell
Week 11	Carbohydrates
Week 12	Amino acid & proteins
Week 13	Lipids
Week 14	DNA
Week 15	Enzymes
Week 16	Exam

Delivery Plan (Weekly Lab. Syllabus)				
المنهاج الاسبوعي للمختبر				
	Material Covered			
Week 1	Titration of sodium carbonate solution with a prepared solution of unknown concentration of hydrochloric acid			
Week 2	Titration of sodium hydroxide solution with hydrochloric acid solution			
Week 3	Measurement of the melting point			
Week 4	Measurement of the boiling point			
Week 5	Recrystallization			
Week 6	Distillation			

Learning and Teaching Resources				
مصادر التعلم والتدريس				
	Text	Available in the Library?		
	*Fundamental of analytical chemistry, Dr. Karrem Al Shallal .	NO		
Required Texts	*Organic Chemistry	yes		
	Principles of Biochemistry, Prof.Basil k. Dalaly, 1986	yes		

Recommended	
Texts	
Websites	

Grading Scheme مخطط الدرجات						
Group	Group Grade التقدير Marks % Definition					
	A - Excellent	امتياز	90 - 100	Outstanding Performance		
Success Group (50 - 100)	B - Very Good	جيد جدا	80 - 89	Above average with some errors		
	C - Good	جيد	70 - 79	Sound work with notable errors		
	<b>D</b> - 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		

**Note:** Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

# MODULE DESCRIPTION FORM

# نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية						
Module Title	Mathematics			Modu	ıle Delivery	
Module Type		Basic			☑ Theory ☑ Lecture ☑ Lab	
Module Code		<b>MATH 104</b>				
ECTS Credits	5				☐ Tutorial	
SWL (hr/sem)	125			☐ Practical ☑ Seminar		
Module Level		1	Semester of Delivery One		One	
Administering Dep	partment	Plant Protection	College	Agriculture		
Module Leader	ALI ABBAS HAS	SHIM	e-mail	ali_abbas@uomisan.edu.iq		edu.iq
Module Leader's	Acad. Title	Lecturer	Module Leader's Qualification Ph. D.		Ph. D.	
Module Tutor			e-mail			
Peer Reviewer Name		Name	e-mail	E-mail		
Scientific Committee Approval Date		1/10/2024	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 Objectives	• تمكين الطالب من حل المسائل الرياضية.	•		
أهداف المادة الدر اسية	<ul> <li>توفير نوع مناسب من الانضباط في ذهن المتعلمين.</li> <li>إعداد الطالب لمختلف المهن الفنية.</li> </ul>			

	<ul> <li>إعداد الطالب لحياة اقتصادية هادفة ومنتجة وإبداعية وبناءة.</li> </ul>
	<ul> <li>تنمية قوة التفكير والاستدلال.</li> </ul>
Module Learning	<ul> <li>أن يكتسب الطالب وضوح بشأن المفاهيم والعمليات الأساسية للرياضيات.</li> </ul>
Outcomes	<ul> <li>أن ينمي الطالب الدقة والكفاءة في العمليات الرياضية الأساسية.</li> </ul>
	<ul> <li>تنمية قوة التفكير والاستدلال.</li> </ul>
مخرجات التعلم للمادة الدراسية	<ul> <li>أن يتعرف الطالب على علاقة الرياضيات بحياته الحالية والمستقبلية.</li> </ul>
	تعريف الطلبة بالدالة.
	تعريف الطلبة بطرق إيجاد مجال الدوال.
	تعريف الطلبة بطرق إيجاد مدى الدوال.
	تعريف الطلبة بطرق إيجاد الغاية للدوال.
Indicative Contents	شرح خواص الغاية وطرق ايجادها عند اللانهاية.
	تعريف الطلبة بطريقة رسم الدوال.
المحتويات الإرشادية	تعريف الطلبة بطرق اشتقاق الدوال باستخدام التعريف وطرق الاشتقاق.
	شرح للطلبة طريقة إيجاد معادلة المماس للدوال
	شرح تعريف التكامل الغير محدد وخصائصه
	شرح طريقة حساب التكامل المحدد وخصائصه
	شرح وتعريف الطلبة بمشتقة وتكامل الدوال المثلثية وخواصها

	Learning and Teaching Strategies  استراتیجیات التعلم والتعلیم	
Strategies	تزويد الطلبة بالاساسيات الاضافية المتعلقة بمخرجات التفكير والتحليل تكوين مجموعة نفاشية لمناقشة مختلف المواضيع الزراعية طرح الاسئلة التفكيرية خلال المحاضرات تتضمن مثل(ماذا و كيف ومتى ولماذا( اعداد الطلبة واجبات بيتية تتطلب تفسيرات ذاتية بطرق سببية	-

Student Workload (SWL)			
الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem)  الحمل الدر اسي المنتظم للطالب خلال الفصل	47	Structured SWL (h/w)  الحمل الدراسي المنتظم للطالب أسبوعيا	3

Unstructured SWL (h/sem)		Unstructured SWL (h/w)	
الحمل الدراسي غير المنتظم للطالب خلال الفصل	78	الحمل الدراسي غير المنتظم للطالب أسبوعيا	5
Total SWL (h/sem)			
الحمل الدراسي الكلي للطالب خلال الفصل		125	

## **Module Evaluation**

# تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
	Quizzes	3	12% (10)	3, 5 and 10	LO #1, #2 , # 3 and #4, #5
Formative assessment	Assignments	3	12% (15)	3, 6 and 12	LO #2, #3 and #4, #5
	Projects / Lab.				
	Report	1	12% (10)	13	LO #2, #3 and #4
Summative assessment	Midterm Exam	2hr	14% (15)	7	LO #1 - #7
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

# Delivery Plan (Weekly Syllabus)

# المنهاج الاسبوعي النظري

	<u> </u>
	Material Covered
Week 1	المصغوفات المتعامدة
Week 2	المصفوفات المربعة
Week 3	المصفوفة المرافقة
Week 4	المحددات
Week 5	قاعدة كرامر

Week 6	امتحان فصلي
Week 7	المشتقات
Week 8	الدوال المثلثية
Week 9	الدوال الاسية
Week 10	الدوال اللوغاريتمية
Week 11	التكامل
Week 12	تكامل الدوال المثلثية
Week 13	تكامل الدوال الاسية
Week 14	تكامل الدوال اللوغاريتمية
Week 15	امتحان

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

# نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية						
Module Title	English language			Modu	le Delivery	
Module Type		Support			☑ Theory	
Module Code		<b>UOM120</b>			<b>⊠</b> Lecture	
ECTS Credits		2			□ Lab	
SWL (hr/sem)		50		☑ Practical		
					☐ Seminar	
Module Level		1	Semester o	emester of Delivery One		One
Administering Dep	partment	Plant Protection	College	Agricu	Agriculture	
Module Leader	Name: Dr. Farl	han Jasim Mohammed	e-mail	farhana	lhakim@uomisa	n.edu.iq
Module Leader's Acad. Title		lecturer	Module Leader's Qualification Ph.		Ph.D.	
Module Tutor			e-mail			
Peer Reviewer Name		Name	<b>e-mail</b> E-mail			
Scientific Committee Approval Date		1/10/2024	Version Nu	mber	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-The aim of this course is to provide English learners with integrated
	language skills such as reading, listening and writing resulting in a level
Module Objectives	of basic language knowledge.
أهداف المادة الدر إسية	2-This course will focus on grammar rules, basic word knowledge and
,	usage, reading comprehension, reading out of the lesson, and
	Paragraph writing.
	3- A student may be able to listen to native speakers and speak English Language.
	4- A student may be able to write and have creativity in his writing.
	.1 - Uses expressions of Quantity in elementary level of English.
Module Learning	2- Constructs sentences in Present Perfect Tense, Simple Future Tense and Going to
Outcomes	Future Tense both in an oral and written task.
	3- Defines basic Modals and employ them in elementary level of communication and
م في حالت التحل المالاة الأدر البررة	writing skills.
مخرجات التعلم للمادة الدراسية	4- Translates sentences in elementary level from English to another language.
	5- Interprets the texts written in elementary level of English.
	Language is a rule-governed behavior. It is defined as the comprehension and/or use
	of a spoken (i.e., listening and speaking), written (i.e., reading and writing),
	and/or other communication symbol system (e.g., American Sign Language).
	Spoken and written language are composed of receptive (i.e., listening and reading)
	and expressive (i.e., speaking and writing) components.
	Spoken language, written language, and their associated components (i.e., receptive
	and expressive) are each a synergistic system comprised of individual language
Indicative Contents	domains (i.e., phonology, morphology, syntax, semantics, pragmatics) that form a dynamic integrative whole
المحتويات الإرشادية	Phonology study of the speech sound (i.e., phoneme) system of a language, including
	the rules for combining and using phonemes.
	Morphology study of the rules that govern how morphemes, the minimal meaningful
	units of language, are used in a language.
	Syntax the rules that pertain to the ways in which words can be combined to form
	sentences in a language.
	Semantics the meaning of words and combinations of words in a language.

Learning and Teaching Strategies				
	استراتيجيات التعلم والتعليم			
Strategies	<ul> <li>Enable students to recognize:</li> <li>1 - Enabling students to communicate effectively and appropriately in real-life situations.</li> <li>2 - Enabling students to use the English language effectively for the purpose of study across the curriculum.</li> <li>3 - Enabling students to develop and integrate the use of the four language skills: reading, listening, speaking and writing.</li> <li>4 - Enabling students to develop interest in and learn about literature.</li> <li>5- Enable students to review and reinforce the structure that has already been learned</li> </ul>			

Student Workload (SWL)					
الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا					
Structured SWL (h/sem)		Structured SWL (h/w)			
الحمل الدراسي المنتظم للطالب خلال الفصل	32	الحمل الدراسي المنتظم للطالب أسبوعيا	2		
Unstructured SWL (h/sem)	10	Unstructured SWL (h/w)	1		
الحمل الدراسي غير المنتظم للطالب خلال الفصل	18	الحمل الدر اسي غير المنتظم للطالب أسبوعيا	1		
Total SWL (h/sem)					
الحمل الدراسي الكلي للطالب خلال الفصل		50			

	iviodule Evaluation						
	تقييم المادة الدراسية						
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome		
Formative	Quizzes	2	10% (10)	5 and 10	LO #1, #2 and #10, #11		
assessment	Assignments	2	10% (10)	2 and 12	LO #3, #4 and #6, #7		

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

	Delivery Plan (Weekly Syllabus)				
	المنهاج الاسبوعي النظري				
	Material Covered				
Week 1	English preposition				
Week 2	Passive voice				
Week 3	Negative				
Week 4	If clause ( conditional) sentences				
Week 5	Kinds of sentences				
Week 6	A- Simple tense				
Week 7	B-compound tense				
Week 8	c- complex tense				
Week 9	The use of so 'and neither'				
Week 10	Singular + plural				
Week 11	How to answer causations				
Week 12	Number + Roman Numerals				
Week 13	Every day sentences				
Week 14	The verb to be				
Week 15	How to write a composition				

Exam

Learning and Teaching Resources مصادر التعلم والتدريس					
	Text Available in the Library?				
Required Texts	Yule, G. (2015). Oxford practice grammar advanced. Oxford University Press.  Alexander, L. G. (2019). Longman English grammar practice. Addison Wesley	Yes			
Recommended Texts	Various university research and dissertations in the English language related to animal productio				
Websites	https://agendaweb.org/listening/dictations.html				

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

Module Information معلومات المادة الدراسية							
Module Title	Human rig	reedoms	Modu	le Delivery			
Module Type		Basic	⊠ Theory				
Module Code		<b>UOM121</b>			□Lecture		
ECTS Credits		2			□ Lab		
					☐ Tutorial		
SWL (hr/sem)		50		☐ Practical			
				☐ Seminar			
Module Level		1	Semester of Delivery		One		
Administering Dep	partment	Plant Protection	College	ge Agriculture			
Module Leader	Name: Ali Aziz	Dawood	e-mail	ali_izaz@uomisan.edu.iq		1	
Module Leader's A	Acad. Title	Assist. Prof.	Module Leader's Qualification		alification	Ph.D.	
Module Tutor			e-mail				
Peer Reviewer Name		Name	e-mail E-mail				
Scientific Committee Approval Date		01/10/2024	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						
	1. تعريف الطلبة بمفهوم الحرية والديمقر اطية ونشأتها.					
Module Objectives	٢ تعريف الطلبة بحقوق الأنسان والديمقر اطية في الحضار ات القديمة.					
أهداف المادة الدراسية	3 تعريف الطلبة بحقوق الانسان في الشرائع والأديان السماوية.					
	4 التأكيد على مميزات وخصائص حقوق الأنسان ومدى تطبيقها في السلطة.					
	٥ التأكيد على تطبيق الحرية والديمقر اطية بمفهومها الصحيح وفق المنظور المجتمعي.					
	1-أن يعرف الطالب مفهوم الحقوق وقوانينها وتطبيقاتها.					
	2-أن يعرف الطالب كيفية المشاركة ف ي نشر الحقوق وتطبيقها بالعمل الواقعي الحقيقي.					
Module Learning Outcomes	ة -القدرة على استخدام الحقوق وسيلة من أجل التعايش السلمي بين مكونات المجتمع وجميع					
	المخلوقات.					
مخرجات التعلم للمادة الدراسية	4-القدرة على مشاركة الآخرين في نشر هذه الحقوق.					
محرجات التعلم للمادة الدراسية	5-القدرة على تحليل وتعريف مفهوم الحرية والتمييز بين أنواع مختلفة من الحريات.					
	6-التفاعل مع قضايا الحريات على الصعيدين الوطني والدولي والتأثير في تشكيل الرأي العام.					
	الحقوق والحريات الأساسية وغير الأساسية					
Indicative Contents	الحقوق والحريات المدنية					
المحتويات الإرشادية	الحقوق السياسية					
الانسان والقانون الدولي الإنساني						

Learning and Teaching Strategies						
استراتيجيات التعلم والتعليم						
	١-المشاركة بالتحضير في قاعة الدرس					
Strategies	2-طريقة الأسئلة والأجوبة في قاعة الدرس					
	3-الواجبات ت					
	4-التقارير					

## Student Workload (SWL)

الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا						
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	32	Structured SWL (h/w)  الحمل الدراسي المنتظم للطالب أسبوعيا	2			
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	18	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	1			
Total SWL (h/sem)  الحمل الدراسي الكلي للطالب خلال الفصل	50					

### **Module Evaluation**

## تقييم المادة الدراسية

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

## Delivery Plan (Weekly Syllabus)

## المنهاج الاسبوعي النظري

	Material Covered
Week 1	تعريف الحرية ومعانيها
Week 2	التمييز بين الحرية والفوضوية

Week 3	دراسة في أهم الحريات المدنية
Week 4	دراسة في أهم الحريات السياسية
Week 5	المقصود بالديموقراطية، البعد التأريخي
Week 6	أشكال الديموقراطية
Week 7	معايير الدولة الديموقراطية
Week 8	الدستور الديموقراطي
Week 9	الدولة وأشكالها
Week 10	المؤسسات التي تحتاجها الدول الديمقراطية
Week 11	الأنتخابات الديموقراطية ( المفهوم – الشروط – المتطلبات – المقاصد )
Week 12	الاحزاب والنظم الانتخابية
Week 13	جماعات الضغط ( ماهية ، وإنواعها ، ووسائلها )
Week 14	تمثيل الاقليات في الحكم الديموقراطي
Week 15	امتحان

Learning and Teaching Resources							
مصادر التعلم والتدريس							
	Text Available in the Library?						
Required Texts	Required Texts  Diamond L. & M. F. Plattner, eds., (2009), Democracy. A  Reader, Baltimore, Johns Hopkins University Press.						
Recommended	مفهوم الحريات العامة وحقوق الانسان، اطارها التاريخي والفكري						
Texts	والفلسفي، وضماناتها الأساسية						
Websites	http://ghrorg-learning.blogspot.com						

#### **Grading Scheme**

#### مخطط الدرجات

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

Module Information معلومات المادة الدر اسية							
Module Title			Modu	le Delivery			
Module Type		Basic		⊠ Theory			
Module Code		GBOT107		☐ Lecture			
ECTS Credits	7				⊠ Lab		
					☐ Tutorial		
SWL (hr/sem)		175	175		☑ Practical		
					<b>⊠</b> Seminar		
Module Level		1	Semester of Delivery 2		2		
Administering Dep	partment	Plant Protetion	College	ege College of Agriculture			
Module Leader	Karrar Akram	Kamil	e-mail	karar.al	karar.akram@uomisan.edu.iq		
Module Leader's	Acad. Title	Lecturer	Module Leader's Qualification		M.Sc.		
Module Tutor	Name (if available) e-		e-mail	E-mail			
Peer Reviewer Name		N. A.	e-mail E-mail				
Scientific Committee Date	tee Approval	10/10/2024	Version Nu	Version Number 1.0			

Relation with other Modules						
العلاقة مع المواد الدراسية الأخرى						
Prerequisite module	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 الدر اسية	<ol> <li>Introducing the student to the concept of botany &amp; the branches of botany.</li> <li>Understanding the relationship of Botany and other agriculture applied sciences and agriculture technologies.</li> <li>Study of the plant cell and its living and non-living components.</li> <li>Study of plant tissues.</li> <li>Identify the principles of plant morphology.</li> </ol>				
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	<ol> <li>Recognize the location of plants during the history of the evolution of life, and introduction to botany and its most important branches.</li> <li>Recognize the cell: Prokaryotes and Eukaryotes</li> <li>Describe learned about: The living components of the plant cell.</li> <li>Discuss Non-living components of a plant cell. Learn to use an optical microscope and prepare a microscope slide.</li> <li>Understand types of cell division. Describe of normal and meiotic division.</li> <li>Describe the morphology of flowering plants.</li> <li>Discuss components of a flower and the flower rings.</li> <li>Identify types of flowering inflorescences.</li> <li>identifying differences between monocotyledonous and dicotyledonous.</li> <li>Identify types of plant tissues.</li> <li>Recognize plant Taxonomy and the Families of Angiospermae.</li> <li>Providing students with the skills of preparing presentations and speaking in front of an audience.</li> </ol>				
Indicative Contents المحتويات الإرشادية	Part A – Importance of Botany theories of the emergence of life on Earth and the location of plants during the history of the evolution of life. The cell: Prokaryotes and Eukaryotes [SSWL=35 hrs]  Part B – Plant Morphology The components of the seed and seed germination. Types of plant roots, ground and aerial stems. Types of plant leaves and leaf modifications. The components of a flower and the flower rings. Types of flowering inflorescences. Monocotyledonous and dicotyledonous plants. [42 hrs]  Part C – Plant Tissue Plant tissues - meristematic tissue & permanent tissues. [SSWL=14 hrs]				

#### <u>Part D – Plant Taxonomy</u>

Fundamental of Plant Taxonomy. Characteristics of Angiospermae Families. Using classification keys to identify unknown plant species. [SSWL=7 hrs]

#### <u>Part E – Seminar</u>

Providing presentations by students for botany topics. Student discussion after presenting the presentation. [SSWL=7 hrs]

Total hrs = 105 = SSWL - (Exam hrs) = 108 - 3 = 105 hr (Time table hrs x 15 weeks)

Learning and Teaching Strategies						
استراتيجيات التعلم والتعليم						
1. Theoretical lectures, and the use of textbooks book and PowerPoint.						
Strategies	Strategies 2. Assigning students to prepare presentations on topics related to the curriculum.					
3. Field visits and scientific trips.						

Student Workload (SWL)					
الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا					
Structured SWL (h/sem)	100	Structured SWL (h/w)	-		
الحمل الدراسي المنتظم للطالب خلال الفصل	108	الحمل الدراسي المنتظم للطالب أسبوعيا	7		
Unstructured SWL (h/sem)	c=	Unstructured SWL (h/w)			
الحمل الدراسي غير المنتظم للطالب خلال الفصل	67	الحمل الدراسي غير المنتظم للطالب أسبوعيا	4.5		
Total SWL (h/sem)		175			
الحمل الدراسي الكلي للطالب خلال الفصل					

### **Module Evaluation**

## تقييم المادة الدراسية

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

## Delivery Plan (Weekly Syllabus)

### المنهاج الاسبوعي النظري

	المحهاج المسبوعي المسري
	Material Covered
Week 1	Introduction - theories of the emergence of life on Earth and the location of plants during the history of the evolution of life. Introduction to botany and its most important branches.
Week 2	The cell: Prokaryotes and Eukaryotes.
Week 3	The living components of the plant cell.
Week 4	Non-living components of a plant cell.
Week 5	Types of cell division. Stages of normal and meiotic division.
Week 6	The components of the seed. The process of germination and aerial and ground germination.
Week 7	Mid-term Exam + types of plant roots, ground and aerial stems.
Week 8	Identifying types of plant leaves and leaf modifications.
Week 9	The components of a flower and the flower rings.

Week 10	Types of flowering inflorescences.
Week 11	Monocotyledonous and dicotyledonous plants.
Week 12	Plant tissues - meristematic tissue.
Week 13	Plant tissues - permanent tissues.
Week 14	Introduction to Plant Taxonomy – Angiospermae Families.
Week 15	Seminars for botanical topics.

	Delivery Plan (Weekly Lab. Syllabus)					
	المنهاج الاسبوعي للمختبر					
	Material Covered					
Week 1	Lab1: Recognizing types of Microscopes, parts of Light microscope and how to use it.					
Week 2	Lab2: Examine the plant cell and animal cell under microscope.					
Week 3	Lab3: Learn to use an optical microscope and prepare a microscope slide of onion leave.					
Week 4	Lab4: Preparing a slide of upper and lower Epidermis of plant leave and identifying stomata.					
Week 5	Lab5: Make a seed germination experiment and identifying the part of seed embryo.					
Week 6	Lab6: Observing and identifying the difference between Epigeal and Hypogeal germination.					
Week 7	Lab7: Mid-term Exam + Identifying types of plant roots, ground and aerial stems.					
Week 8	Lab8: Identifying types of plant leaves and leaf modifications.					
Week 9	Lab9: The components of a flower and the flower rings.					
Week 10	Lab10: Types of flowering inflorescences.					
Week 11	Lab11: Monocotyledonous and dicotyledonous plants.					
Week 12	Lab12: Examine Plant tissues - meristematic tissue under microscope.					
Week 13	Lab13: Examine Plant tissues - permanent tissues under microscope.					
Week 14	Lab14: study the application of morphological differences in plant identification.					

W	Ve	e	k	1	5
---	----	---	---	---	---

Lab15: making a Classification Key of provided plant samples.

	Learning and Teaching Resources					
	مصادر التعلم والتدريس					
	Text	Available in the Library?				
Required Texts	Fundamentals of Botany, Dr. Mahmoud Muhammad Jabr et al. 2009	No				
Recommended Texts	<ul><li>1- Fundamentals of Botany, Dr. Mahmoud Muhammad Jabr et al. 2009.</li><li>2- Practical Botany - published by the Ministry of Technical Education and Vocational Training - Republic of Yemen.</li></ul>	No				
Websites	https://www.youtube.com/watch?v=SI418f2RonU  https://www.youtube.com/watch?v=ilHgNugsyak  https://www.youtube.com/watch?v=CHEvrUA7ky4  https://www.youtube.com/watch?v=s6vg0ZCVPIk  https://youtu.be/C6hn3sA0ip0?si=9l9yRMYxOjA8t-hB					

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

**Note:** Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

### **Grading Scheme**

#### مخطط الدر جات

Group	Grade	التقدير	Marks %	Definition
	A - Excellent	امتياز	90 - 100	Outstanding Performance
Success Group	<b>B</b> - Very Good	جيد جدا	80 - 89	Above average with some errors
(50 - 100)	C - Good	ختر	70 - 79	Sound work with notable errors
,	<b>D</b> - 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)	<b>F</b> – Fail	راسب	(0-44)	Considerable amount of work required

	Module Information معلومات المادة الدراسية					
Module Title	Plar	nt Protection basi	ics	Modu	le Delivery	
Module Type		Core			☑ Theory	
Module Code		PLPB108			□ Lecture ⊠ Lab	
ECTS Credits		7			☑ Tutorial ☑ Practical	
SWL (hr/sem)		175			☐ Seminar	
Module Level		1	Semester o	of Delivery 2		2
Administering Dep	partment	Pant Protection	College	Agriculture		
Module Leader Qusai Hattab I		Madhi	e-mail	qusay.h	attab@uomisan.	<u>.edu.iq</u>
Module Leader's Acad. Title		Assistant professor	Module Lea	dule Leader's Qualification Ph.D.		Ph.D.
Module Tutor			e-mail			
Peer Reviewer Name		Name	e-mail	E-mail		
Scientific Committee Approval Date		1/10/2024	Version Nu	mber	1.0	

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

Modu	Module Aims, Learning Outcomes and Indicative Contents				
	أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية				
Module Objectives أهداف المادة الدراسية	<ol> <li>Learn about the most important pests and diseases spread in Iraq and the world and the types of their causes</li> <li>It classifies the types of pests and diseases according to their causes, their cycle of life, or the nature of their reproduction</li> <li>The student separates the types of pests and diseases and the most important methods used to reduce their impact on crop productivity -</li> <li>Knows the scientific methods used to reduce the damage of pests and diseases by first adopting preventive methods</li> <li>The student evaluates the cost of chemical control, the type of pesticides used, the method of control, additions, and devices.</li> </ol>				
Module Learning Outcomes	The student should know the basics of plant protection, how to get rid of insect pests, diseases, and fungi that infect plants, and the best ways to protect and protect them.				
Indicative Contents المحتويات الإرشادية	<ol> <li>Identify the types of insects</li> <li>Identify the conditions and mutations that help insects in the environment</li> <li>Identify the positive and negative circumstances affecting the life of insects</li> </ol>				

	Learning and Teaching Strategies			
استراتيجيات التعلم والتعليم				
Strategies	Use presentations/images/brochures/books/surveys to research the shop			

Student Workload (SWL)				
الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا				
Structured SWL (h/sem)  الحمل الدر اسي المنتظم للطالب خلال الفصل	93	Structured SWL (h/w)  الحمل الدراسي المنتظم للطالب أسبوعيا	6.2	

Unstructured SWL (h/sem)		Unstructured SWL (h/w)	_
الحمل الدراسي غير المنتظم للطالب خلال الفصل	82	الحمل الدراسي غير المنتظم للطالب أسبوعيا	5.46
Total SWL (h/sem)			
الحمل الدراسي الكلي للطالب خلال الفصل	175		

### **Module Evaluation**

### تقييم المادة الدراسية

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

	Delivery Plan (Weekly Syllabus)				
	المنهاج الاسبوعي النظري				
	Material Covered				
Week 1	مقدمة عن علم الحشرات				
Week 2	اساليب تغذية الحشرات والعوامل التي ساعدت على البقاء				
Week 3	أ- طرق تكاثر الحشرات				
Week 4	ب- العوامل البيئية المؤثرة في حياة ونشاط الحشرات				

Week 5	طرق مقاومة الحشرات
Week 6	الحكم الأقتصادي والعوامل المهمة في العراق
Week 7	طبيعة حياة واضرار القوارض الزراعية
Week 8	الأهمية الاقتصادية للأفات
Week 9	تعاريف لمصطلحات الأمراض
Week 10	مسببات امراض النباتات الطفيلية
Week 11	مسببات الأمراض غير الطفيلية
Week 12	مراحل تطور المرض وطرق انتشاره
Week 13	طرق مقاومة امراض النبات
Week 14	
Week 15	

	Delivery Plan (Weekly Lab. Syllabus)				
	المنهاج الاسبوعي للمختبر				
	Material Covered				
Week 1	الصفات العامة لشعبة مفصلية الأرجل وصنف الحشرات				
Week 2	تركيب جسم الحشرة / ملحقات الراس / انواع الفم / انواع اللوامس				
Week 3	ملحقات الصدر / انواع الأرجل / انواع الأجنحة / ملحقات البطن				
Week 4	التشكل في الحشرات وتقسيم الحشرات الى رتب				
Week 5	حشرات الحنطة والشعير + الذرة الصفراء + القطن				
Week 6	حشرات النخيل / الفاكهة والقرعيات				
Week 7	التعرف على اهم الأعراض المرضية				
Week 8	دراسة اعراض امراض المحاصيل الحقلية واساليب مقاومتها				
Week 9	دراسة اعراض امراض المحاصيل البستنية واساليب مقاومتها				

#### **Learning and Teaching Resources**

#### مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	<ul><li>1- Principles of plant protection (insects part)</li><li>2- Insect pests</li></ul>	Yes
Recommended Texts	Principles of plant protection (plant diseases part)	No
Websites	https://www.agro-lib.site/2022/04/blog-post_497.html	

#### **Grading Scheme**

#### مخطط الدرجات

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

Module Information معلومات المادة الدراسية						
Module Title	Principles of Soil Science		Modu	le Delivery		
Module Type		Basic			⊠Theory	
Module Code		SOIL109			□Lecture	
Wiodule Code					⊠ Lab	
ECTS Credits		6			☐ Tutorial	
SIAU (bu/som)		150			□Practical	
SWL (hr/sem)		150				
Module Level	1		Semester o	Semester of Delivery 2		2
Administering Dep	partment	Plant Protection	College	Agriculture		ure
Module Leader	Hayder Kh	alaf Mohammed	e-mail	hay	der.khalaf@uoi	misan.edu.iq
Module Leader's Acad. Title Ph.D.		Ph.D.	Module Leader's Qualification P		Ph.D.	
Module Tutor	,		e-mail			
Peer Reviewer Name			e-mail			
Scientific Committee Approval Date 01/10/2024		Version Nu	mber	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 الدر اسية	<ul> <li>Giving the student a basic idea of soil science concepts.</li> <li>Understanding soil and getting to the basics by looking at the geophysical system of the Earth's crust with all its relationships and the role of processes in nature such as the water cycle and energy exchange.</li> <li>Clarifying the rel ationships between soil science and other basic sciences.</li> <li>Understanding the purpose of studying the course: familiarizing yourself with most laboratory equipment and knowing how they work.</li> </ul>				
Module Learning Outcomes  مخرجات التعلم للمادة الدراسية	1- Giving the student a basic idea about the concepts of soil science. 2- Understanding the soil and reaching the basics by looking at the biophysical system of the earth's crust with all its relationships and the role of processes in nature such as the water cycle and energy exchange. 3- Clarifying the relationships between soil science and other basic sciences 4- Reviewing laboratory equipment and knowing how it works 5- Giving a description of most of the environmental problems resulting from neglecting agricultural lands such as pollution and global warming				
Indicative Contents المحتويات الإرشادية	<ol> <li>Using the display screen in the classrooms.</li> <li>Enabling students to visit the library and websites.</li> <li>Displaying illustrative images of different types of devices and how they work.</li> <li>Putting thoughtful questions during lectures including (what, how, when and why)</li> <li>Students participating in preparing seminars and scientific reports</li> <li>Finding solutions to problems and obstacles that students</li> <li>encounter in the practical part</li> <li>Forming a discussion group to discuss various agricultural topics</li> <li>Writing a report on the experiments carried out in the field and laboratory.</li> </ol>				

Learning and Teaching Strategies				
استراتيجيات التعلم والتعليم				
Strategies	The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. This will be achieved through classes, interactive tutorials and by considering types of simple experiments involving some sampling activities that are interesting to the students.			

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ أسبوعا					
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	72	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	1.1		
Total SWL (h/sem)  الحمل الدراسي الكلي للطالب خلال الفصل	150				

#### **Module Evaluation**

## تقييم المادة الدراسية

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

## Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
Week 1	Introduction, and general definitions and concepts of soil
Week 2	Soil sciences
Week 3	Origin and development of soil
Week 4	Soil Physical Properties
Week 5	Soil Water
Week 6	Colloids and soil chemical properties
Week 7	Soil salinity and Alkalinity
Week 8	Exam 1
Week 9	Reclamation of lands affected by salts and management of reclaimed soils
Week 10	Biological and Biochemical properties of soil
Week 11	Soil fertility
Week 12	Plant nutrition
Week 13	Desertification
Week 14	Desertification in Iraq
Week 15	Classification and management of soils in Iraq
Week 16	Exam 2

	Delivery Plan (Weekly Lab. Syllabus)				
	المنهاج الاسبوعي للمختبر				
	Material Covered				
Week 1	Collect soil samples and transport them to the laboratory				
Week 2	Soil moisture content Determination				
Week 3	Determination of some physical properties of the laboratory: Bulk density, true density				
Week 4	Volumetric analysis of soil particles				

Week 5	Determination, pH and Ec
Week 6	Determination of Organic Matter Percentage of Soil
Week 7	Determination of some available nutrients, NPK

	Learning and Teaching Resources					
	مصادر التعلم والتدريس					
	Text	Available in the Library?				
	1. مبادئ علم التربة / د. عبد الله نجم العاني (1980).					
	<ol> <li>مبادئ التربة العملي / م.م. منذر ماجد تاج الدين , م.م. عماد بشير يعقوب</li> <li>(1988).</li> </ol>					
	3. التسميد وخصوبة التربة / د. كاظم مشحوت عواد (1987).					
Required Texts	4. اساسيات علم التربة /د. عبد الفتاح العاني (1984).	yes				
	5. استصلاح الأراضي / د. احمد حيدر الزبيدي (1993).					
	<ul><li>6. ادارة التربة في تخطيط واستعمال الا ا رضي / د . محمد خضير عباس</li><li>(1999).</li></ul>					
	7. التصحر / ا.م.د. ماجد خضير عباس ، ا.م.د. عبد الامير ثجيل صالح (2013).					
Recommended	الزراعة العراقية – علوم التربة والمكننة	مجلة				
Texts						
Websites	Googal					

Grading Scheme						
	مخطط الدرجات					
Group	Grade التقدير Marks % Definition					
Success Group	A - Excellent	امتياز	90 - 100	Outstanding Performance		
(50 - 100)	<b>B</b> - Very Good	جيد جدا	80 - 89	Above average with some errors		
,	<b>C</b> - Good	ختر	70 - 79	Sound work with notable errors		

	<b>D</b> - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group	<b>FX</b> – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
(0 – 49)	<b>F</b> – Fail	راسب	(0-44)	Considerable amount of work required

# نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية						
Module Title	Principles	s of Agricultural Eco	onomics	Module Deliver	Module Delivery	
Module Type		Core		⊠Theo	rv	
Module Code		AGEC110	AGEC110		re	
ECTS Credits		5	⊠Tutorial			
SWL (hr/sem)		125		── ⊠ Seminar		
Module Level			Semester of Delivery		2	
Administering Dep	partment	Plant Protection	College	College o	of Agriculture	
Module Leader	Dr. Alaa	Kazem Farhan	e-mail			
Module Leader's	Acad. Title	Lecturer	111000010 200	Module Leader's Qualification		
Module Tutor			e-mail alaa.k.f@uomisan.edu.iq		an.edu.iq	
Peer Reviewer Name			e-mail			
Scientific Committee Approval Date		04/10/2024	Version Nu	mber		

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

	Introduce students to the importance of agricultural economics
	2. Introducing students to the agricultural economic problem and its most
	important causes.
Module Objectives	3. Definition of economic and non-economic resources and their uses among
أهداف المادة الدر اسية	alternatives.
	4. Definition of the productive function and the first principles of selection.
	5. Introducing students to the nature of production costs.
	6. Introducing students to the importance of farm planning and its most
	important objectives.
	7. Definition of the laws of decreasing yields and successive stages
Module Learning	Students will learn:
Outcomes	Clarify the basic ideas and concepts of agricultural economics.
Outcomes	Address possible problems that arise in how economic resources are used in
	the production process. How to plan the production process.
	3. Explain the substitutionary relationships through the total production
مخرجات التعلم للمادة الدراسية	function.
	Introduction, main principles of production, key definitions of the science of
	agricultural economics.
Indicative Contents	Introducing the agricultural economic problem and its causes, and introducing
maicative contents	the factors of production and their prices.
المحتويات الإرشادية	Examine the relationships between productive resources and their mutual
	potential.
	Study the relationships between productive resources and their interchangeable
	potential.
	Identify agricultural productivity costs and factor returns

Learning and Teaching Strategies				
استراتيجيات التعلم والتعليم				
Strategies	The main strategy that will be adopted in offering this module is to encourage students' participation in discussion and lectures, while at the same time improving and expanding their critical thinking skills. This will be achieved through classrooms where learning takes place through classroom lectures, participation in lecturing, and snap, semester and final exams.			

## Student Workload (SWL)

الحمل الدراسي للطالب محسوب لـ ١٥ أسبوعا					
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	33	Structured SWL (h/w)  الحمل الدراسي المنتظم للطالب أسبوعيا	2.2		
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	92	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	6.13		
Total SWL (h/sem)  الحمل الدراسي الكلي للطالب خلال الفصل		125			

Module Evaluation							
تقييم المادة الدراسية							
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome		
	Quizzes	2	20% (20)	5 and 10	LO #1, #2 and #7, #6		
Formative	Assignments	2	10% (10)	2 and 12	LO #3, #4 and #6, #7		
assessment	Projects / Lab.						
	Report	2	10% (10)	13	LO #5, #7 and #8		
Summative assessment	Midterm Exam	2hr	10% (10)	7	LO #1 - #7		
	Final Exam	3hr	50% (50)	16	All		
Total assessme	ent		100% (100 Marks)				

Delivery Plan (Weekly Syllabus)				
	المنهاج الاسبوعي النظري			
	Material Covered			
Week 1	Economics and its branches			

Week 2	Definition of agricultural economics and its importance
Week 3	Agriculture and its characteristics
Week 4	Objectives of studying farm business
Week 5	The basic pillars of economic activity الزراعي
Week 6	Definition of farm ,Farm manager jobs
Week 7	examination
Week 8	Introduction to the economics of agricultural production
Week 9	Introducing economic resources and human needs
Week 10	Definition of price elasticity of demand
Week 11	Definition of income elasticity of demand
Week 12	Definition of cross elasticity of demand
Week 13	Definition: Law of diminishing returns
Week 14	Estimating the Simple Regression Line Equation for the Farm Production Function
Week 15	Preparatory week before the final Exam
Week 16	examination

Learning and Teaching Resources						
	مصادر التعلم والتدريس					
	Text	Available in the Library?				
Required Texts	- Economics of Agricultural Resources, Dr. Hamed Abdel .Shafi / Faculty of Agriculture - Mansoura University .					
Recommended Texts	- Principles of Agricultural Economics, Dr. Mohamed Shata / Faculty of Agriculture - Mansoura University					
Websites						

#### **Grading Scheme**

#### مخطط الدرجات

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

Module Information معلومات المادة الدراسية							
Module Title	Computer applications		ns/1	Modu	le Delivery		
Module Type		В			☑ Theory		
Module Code		<b>UOM</b> 122			☐ Lecture		
ECTS Credits		3			<b>⊠</b> Lab		
SWL (hr/sem)		75	75		☑ Practical		
					☐ Seminar		
Module Level	1		Semester o	emester of Delivery		2	
Administering Dep	partment	Plant Protection	College	Agricult	Agriculture		
Module Leader	Abbas luaibi ob	aid	e-mail	abbas.a	abbas.alrajhe@uomisan.edu.iq		
Module Leader's	Acad. Title	Asst.Lecturer	Module Leader's Qualification		alification	Msc	
Module Tutor			e-mail				
Peer Reviewer Name		e-mail					
Scientific Commit	tee Approval	1/10/2024	Version Nu	mber	1.0		

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

Module Objectives	Introducing the student to the basics of computers and types of computers Its classification, operating systems and objectives. As for the goals of the practical side It is to provide the student with skills in using operating and application programs and

أهداف المادة الدراسية	how to maintain computer security.				
	Contract Million				
	Students will learn:				
	1. The basics, basic ideas and concepts necessary to understand the structure of the				
Module Learning	computer.				
Outcomes	2. Explain the basic components of the computer and learn about them in detail.				
	3. Explain computer security and explain malware and how to prevent it.				
مخرجات التعلم للمادة الدراسية	4. Understand how to deal with programs safely.				
	5. Explain operating systems and learn about them.				
	6. Explain how to deal with the Windows system and how to install it on computers.				
	7. Learn about keyboard shortcuts and how to use them.				
	Here's a detailed outline of indicative contents for an OOP course. The				
	indicative contents typically cover the following key topics:				
	1. Computer Basics				
	1. The development of computer generations				
	2. Electronic computer				
	3. Data and information				
	4. Computer features				
	5. Areas of computer use				
todicali a Castasta	6. Computer components				
Indicative Contents	7. Types of computers				
المحتويات الإرشادية	8. Classification of computers				
	2. Computer components				
	1. Computer components				
	2. The physical parts of the computer				
	3. Input devices				
	4. Output devices				
	5. Computer box1.Software entity				
	6. Number systems				
	7. Your personal computer				
	7. Tour personal computer				

- 8. Computer platform
- 9. Factors that must Take this into consideration when purchasing a computer

#### **3.**(Computer security and licensing programs)

- 1. Ethics of the electronic world
- 2. Forms of abuses in the world Electronic
- 3. Computer security
- 4. Computer privacy
- 5. Computer software licenses
- 6. Types of licenses
- 7. Intellectual property
- 8. Electronic hacking
- 9. Types of electronic hacking
- 10. Sources of hacking Electronic
- 11. The most security risks widespread
- 12. Malicious software
- 13. Computer viruses
- 14. Damages resulting from Viruses
- 15. Components of viruses
- 16. Types of viruses
- 17. Necessary steps for protection From viruses
- 18. Computer damage On human health

#### **4.Operating Systems**

- 1. Definition of the operating system
- 2. Operating system functions
- 3. Objectives of the operating system
- 4. Operating system classification
- 5. Examples of some operating systems
- 6. Windows 7 operating system
- 7. Windows 7 installation requirements

8.Windows 7 features	

9. Surface components

#### **Learning and Teaching Strategies**

#### استر اتيجيات التعلم والتعليم

#### Strategies

1- Explanation, clarification, and honing general and qualifying skills

- 2- Urging the student to write simple research using the lecture method to create a state of balance between methodological information and source information.
- 3- Urging the student to work on practical projects on the calculator and hold discussion circles among the students on the methodology of the subject and distribute the students into groups.
- 4-Practical lessons in the laboratory
- 5- The method of self-learning and writing scientific reports, and urging the student to evaluate the answers of his fellow students to develop self-development.

**Student Workload (SWL)** الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا Structured SWL (h/sem) Structured SWL (h/w) 48 3 الحمل الدراسي المنتظم للطالب أسبوعيا الحمل الدراسي المنتظم للطالب خلال الفصل Unstructured SWL (h/sem) Unstructured SWL (h/w) 27 2 الحمل الدراسي غير المنتظم للطالب خلال الحمل الدراسي غير المنتظم للطالب أسبوعيا الفصل Total SWL (h/sem) **75** الحمل الدراسي الكلي للطالب خلال الفصل

#### 60

**Module Evaluation** 

تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome	
	Quizzes	2	10% (10)	5 and 10		
Formative assessment	Class group assignments	1	5% (5)	Continuous	To be selected by the module leader	
	Report	1	10% (10)	12		
Summative	Midterm Exam	1hr	25% (25)	7	LO #1 - #7	
assessment	Final Exam	3hr	50% (50)	16	All	
Total assessment			100% (100 Marks)			

Delivery Plan (Weekly Syllabus)			
المنهاج الاسبوعي النظري			
	Material Covered		
Week 1	Chapter One: Computer Basics  1. The development of computer generations  2. Electronic computer  3. Data and information		
Week 2	4. Computer features  5. Areas of computer use		
Week 3	Computer components     Types of computers     Classification of computers		
Week 4	Chapter Two: Computer components  1. Computer components  2. The physical parts of the computer  3. Input devices		
Week 5	4. Output devices		

	5. Computer box
	1.Software entity
	2. Number systems
Week 6	3. Your personal computer
week o	4. Computer platform
	5. Factors that must
	Take this into consideration when purchasing a computer
Week 7	Mid-term Exam
	(Computer security and licensing programs)
	1. Ethics of the electronic world
Week 8	2. Forms of abuses in the world Electronic
	3. Computer security
	4. Computer privacy
	5. Computer software licenses
Week 9	6. Types of licenses
	7. Intellectual property
	1. Electronic hacking
Week 10	2. Types of electronic hacking
	3. Sources of hacking
	Electronic
	4. The most security risks
Week 11	widespread
	5. Malicious software
	6. Computer viruses
	7. Damages resulting from
Week 12	Viruses
	8. Components of viruses
	9. Types of viruses
	10. Necessary steps for protection
Week 13	From viruses
	11. Computer damage On human health

	the fourth chapter
	Operating Systems
	1. Definition of the operating system
Week 14	2. Operating system functions
	3. Objectives of the operating system
	4. Operating system classification
	5. Examples of some operating systems
	1.Windows 7 operating system
Week 15	2. Windows 7 installation requirements
WCCK 13	3. Windows 7 features
	4. Surface components
Week 16	Final examination

Delivery Plan (Weekly Lab. Syllabus)				
المنهاج الاسبوعي للمختبر				
	Material Covered			
Week 1	Showing the components of the computer to the students and what the parts of the computer consist of in detail			
Week 2	Introducing students to the input and output parts and explaining the operation of each device.			
Week 3	Opening the computer case, explaining the internal parts and explaining the function of each part			
Week 4	Show programming examples inside the lab using one of the programming languages to familiarize students			
Week 5	Introducing students to personal computers, explaining their components and parts, how to choose them, and			
Week 6	what are the most important factors to consider when purchasing a computer.			
Week 7	Mid-term Exam			
Week 8	Practical implementation of computer security, privacy protection and computer software licenses and identifying types of licenses, intellectual property statement, examples of hacking and types of hacking			
Week 9	Practical implementation of Introducing students to the sources of hacking, its risks, the most important malware, and examples of it in the form of a presentation. Introducing students			

	practically to computer viruses and the damages resulting from them, what are the types of viruses, and the most important steps necessary to protect against hacking
Week 10	Practical implementation of The harms of computers on human health, introducing students to using computers for prevention and , Introducing students to the operating system, what are the requirements for installing the operating system, and how to install the operating system.
Week 11	Practical implementation of Explain the components of the desktop, the Start menu, and the taskbar.
Week 12	Practical implementation of Folders and files. Explaining the types of files. Introducing the student to the main icons.
Week 13, 14	Practical implementation of Perform operations on windows, how to change the desktop,
Week 15	Practical implementation of To explain the control panel in detail, and to show the control button, and how to install programs

Learning and Teaching Resources				
مصادر التعلم والتدريس				
	Text	Available in the Library?		
Required Texts	Written by:  1- Professor Dr. Ghassan Hamid Abdel Majeed  2-Professor Dr. Ziad Muhammad Abboud  3-Professor Dr. Muhammad Nasser Al-Tarfi  4-Professor Dr. Safaa Abbas Al-Mamouri  2- International Information Network, the Internet  1- Internet Ethics - A. M. Alawi Hind - Al-Shabsi Arab University Center  2- Ethics of dealing with technical and communication resources - Dr. Hussein bin Saeed bin Saif  3- Ethics of the virtual world - Dr. Louay Al-Zoubi 2013	yes		
Websites	websites:  -History of the development of computer networks, objective website: http://machttp://youstaff.blogspot.com: Information and Internet security  http://geeklesstech.com: Internet Law Laws for using the InternetReal-time communication protocols in the Internet (RTP SIP), World of Technolo  ARPANET logical map, http://russbellew.com/Documents/Arpanet_sep_1974.			

Module Information معلومات المادة الدراسية						
Module Title	A	Arabic language		Modu	le Delivery	
Module Type		Basic			☑ Theory	
Module Code				☐ Lecture ☐ Lab		
ECTS Credits		2				
SWL (hr/sem)		50		□ Practical  ☑ Seminar		
Module Level	1		Semester o	Delivery Two		Two
Administering Dep	partment	Plant Protection	College	e Agriculture		
Module Leader	Asmaa Salam I	Khalil	e-mail Asmaa aljbori@uomisan.edu.iq		n.edu.iq	
Module Leader's	Acad. Title		Module Leader's Qualification M.Sc.		M.Sc.	
Module Tutor			e-mail			
Peer Reviewer Name		Name	e-mail	E-mail		
Scientific Committee Approval Date		01/10/2024	Version Nu	mber	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 الدر اسية	أهمية اللغة العربية للاختصاصات العلمية وميزتها بين اللغات الحية تجنب الاخطاء الشائعة وسلامة النطق					
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	أن يتعرف الطالب على قواعد اللغة العربية أن يعرف الطالب كيفية بناء الجمل واستخراجها للعنوان المطلوب.					
Indicative Contents المحتويات الإرشادية	تدرس اللغة العربية على عدة مستويات: المستوى الذي من خلاله يمكن معرفة المعنى التركيبي للنص. المستوى النحوي: وهو المستوى الذي من خلاله يمكن معرفة المعنى المتفرع على المعنى المعجمي، المستوى الدلالي: وهو المستوى الذي من خلاله يمكن معرفة دلالة الألفاظ (الجذر). المستوى الدي من خلاله يمكن معرفة دلالة الألفاظ الصوتية سواء كانت لفظا أو جزءا المستوى الضوتية سواء كانت لفظا أو جزءا من لفظ.					

Learning and Teaching Strategies استراتیجیات التعلم والتعلیم				
Strategies	The main strategy that will be adopted in delivering this module are:  1. Power point presentation (Data show).  2. Explanation on the white board using different color markers.  3. Discussions with the student during teaching.  4. Interaction with students through daily problems practice through lecture.  5. Solve different problems with more exercises.  6. Submit assignment that develop student learning.			

Student Workload (SWL)	
الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا	

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	32	Structured SWL (h/w)  الحمل الدراسي المنتظم للطالب أسبوعيا	2
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	18	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	1
Total SWL (h/sem)  الحمل الدراسي الكلي للطالب خلال الفصل	50		

## **Module Evaluation**

## تقييم المادة الدراسية

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

Delivery Plan (Weekly Syllabus)						
	المنهاج الاسبوعي النظري					
	Material Covered					
Week 1	القران الكريم/الإعجاز البلاغي					
Week 2	سورة الكهف أسباب النزول					
Week 3	تفسير عشرون آية مع الحفظ					

eek 4 في الإعراب أقواعد في الإعراب	قواعد اللغ
eek 5 خبر	المبتدأ وال
eek 6	النواسخ
eek 7	الأفعال النا
eek 8	المفاعيل
eek 9	الأعداد
واعد كتابة الهمزة	الإملاء/قو
eek 11 بة التاء	قواعد كتاب
بي/مقدمة في عصور الأدب العربي ومميزات كل عصر وأصوله الفنية	الأدب العر
قد لنص شعري قديم/قصيدة الحمامة النائحة لأبي فراس الحمداني	دراسة ونذ
شانعة في الكتابة على الكتابة	الأخطاء ال
eek 15	

Learning and Teaching Resources					
مصادر التعلم والتدريس					
	Text	Available in the Library?			
Required Texts	كتاب منهجي	Yes			
Recommended					
Texts					
Websites					

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

	C - Good	ختر	70 - 79	Sound work with notable errors
	<b>D</b> - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group	<b>FX</b> – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
(0 – 49)	<b>F</b> – Fail	راسب	(0-44)	Considerable amount of work required