MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

<table>
<tr><td colspan="4" align="center">Module Information
معلومات المادة الدراسية</td></tr>
<tr><td>Module Title</td><td align="center"><strong style="color:red">Animal Management and behavior</td><td colspan="2">Module Delivery</td></tr>
<tr><td>Module Type</td><td align="center">Core</td><td colspan="2" rowspan="4">☒Theory
☐ Lecture
☒ Lab
☐ Tutorial
☐ Practical
☐ Seminar</td></tr>
<tr><td>Module Code</td><td align="center"><strong style="color:red">VET1030</td></tr>
<tr><td>ECTS Credits</td><td align="center">7</td></tr>
<tr><td>SWL (hr/sem)</td><td align="center"><strong style="color:red">175</td></tr>
<tr><td>Module Level</td><td>1</td><td>Semester of Delivery</td><td>1</td></tr>
<tr><td>Administering Department</td><td>Type Dept. Code</td><td>College</td><td>Type College Code</td></tr>
<tr><td>Module Leader</td><td>Dhyaa Mohammad Taher Jwher</td><td>e-mail</td><td>diaataher@uomosul.edu.iq</td></tr>
<tr><td>Module Leader's Acad. Title</td><td>Professor</td><td>Module Leader's Qualification</td><td>Ph.D.</td></tr>
<tr><td>Module Tutor</td><td>Ayman Hani Taha Suliman</td><td>e-mail</td><td>dr_vetayman@uomosul.edu.iq</td></tr>
<tr><td>Peer Reviewer Name</td><td>aytham saady aldabbgh</td><td>e-mail</td><td>draytham@uomosul.edu.iq</td></tr>
<tr><td>Scientific Committee Approval Date</td><td>15/9/2024</td><td>Version Number</td><td>1.0</td></tr>
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<tr><td colspan="4" align="center">Relation with other Modules
العلاقة مع المواد الدراسية الأخرى</td></tr>
<tr><td>Prerequisite module</td><td>None</td><td>Semester</td><td></td></tr>
<tr><td>Co-requisites module</td><td>None</td><td>Semester</td><td></td></tr>
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	Module Aims, Learning Outcomes and Indicative Contents
	أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية
Module Objectives أهداف المادة الدراسية	1. Developing and understanding the principles of field animal management from a veterinary perspective in a way that supports the practical side of the profession 2. The ability to manage the animal field in the healthiest ways 3. Ability to deal with different animals 4. ‖
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. Knowing the behaviors of the equine family and ways of caring for and looking after them 2. The correct and typical methods for successful management in cow and buffalo pens through their behaviors and production 3. The correct and typical methods for successful management of sheep and goat breeding fields through their behaviors and production 4. Health management of camels and knowing their behaviors 5. The correct methods for the reproduction of different farm animals 6. Concepts about wild animals
Indicative Contents المحتويات الإرشادية	This course provides a description and specification of farm animals of all types and the different methods of raising them for productive purposes [SSWL= 1 hour] Psychological and behavioral characteristics of horses and their care and care of foals (young) [SSWL= 4 hours] Productive characteristics of cattle and their behavior and care of their newborns [SSWL= 6 hours] Characteristics of raising goats and their behavior and care [SSWL= 2 hours] Characteristics of raising sheep and their behavior and care [SSWL= 2 hours] Characteristics of raising buffaloes and their behavior and care [SSWL= 2 hours] Characteristics of raising camels and their behavior and care [SSWL= 3 hours] Methods of reproduction in different animals will be discussed and ways to maximize the benefit from reproduction and proper health management for them [SSWL= 4 hours] The course will also discuss one of the important aspects of wild animals and ways to preserve them as one of the components of environmental balance [SSWL= 4 hours] Total hrs = 90 = (Time table 3 hr x 15 weeks)- theoretical Total hrs = 30 = (Time table 2 hr x 15 weeks)- practical

	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, dealing with different animals and knowing the basic rules for their management, As well as using devices and tools that assist in controlling animals. This will be achieved through classroom and practical lessons that will help students understand and apply.

Student Workload (SWL)			
الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
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	6
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
Formative assessment	Quizzes	2	20% (20)	6 and 10	LO #1, #3, #5, and #6
	Assignments	2	5% (5)	4 and 12	LO #2 #4 and #5, #6
	Projects / Lab.	1	10% (10)	Continuous	All
	Report	1	5% (5)	11	LO #2, #3, #4 and #6
Summative assessment	Midterm Exam	2hr	10% (10)	8	LO #1 - #4
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
المنهاج الاسبوعي النظري	
	Material Covered
Week 1	Description and identification of farm animals
Week 2	Equine behavior
Week 3	Equine and foal care
Week 4	Calf and cattle management
Week 5	Cattle production
Week 6	Cattle behavior

Week 7	Goat management
Week 8	Sheep management
Week 9	Buffaloes management
Week 10	Camel management
Week 11	Buffaloes and camel behavior
Week 12	Management of Animal reproduction 1
Week 13	Management of Animal reproduction 2
Week 14	Wild animals 1
Week 15	Wild animals 2
Week 16	**Preparatory week before the final Exam**

Delivery Plan (Weekly Lab. Syllabus)	
المنهاج الاسبوعي للمختبر	
	Material Covered
Week 1	Lab 1: External parts of Cattle
Week 2	Lab 2: External parts Equine
Week 3	Lab 3: Control and restrains of cattle
Week 4	Lab 4: Control and restrain of equine
Week 5	Lab 5: Age estimation in equine
Week 6	Lab 6: Age estimation in cows, sheep and goat
Week 7	Lab 7: Methods casting
Week 8	Lab 8: Signs of health
Week 9	Lab 9: Drug administration
Week 10	Lab 10: Milking
Week 11	Lab 11: Body score condition
Week 12	Lab 12: Animal Grooming
Week 13	Lab 13: Animal housing
Week 14	Lab 14: Animal examination
Week 15	Lab 15: Farm practices

Learning and Teaching Resources		
مصادر التعلم والتدريس		
	Text	**Available in the Library?**

Required Texts	Animal Husbandry Regained / The Place of Farm Animals in Sustainable Agriculture	Yes
Recommended Texts	Animal management - Domestic animal behavior and welfare	yes
Websites	https://www.routledge.com/Animal-Husbandry-Regained-The-Place-of-Farm-Animals-in-Sustainable-Agriculture/Webster/p/book/9781849714211	

Grading Scheme مخطط الدرجات				
Group	Grade	التقدير	Marks %	Definition
Success Group (50 - 100)	**A -** Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	**FX –** Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	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	**Biorisk management**	**Module Delivery**
Module Type	Core	☒Theory ☒Lecture ☐ Lab ☐Tutorial ☐Practical ☐Seminar
Module Code	VET1040	
ECTS Credits	3	
SWL (hr/sem)	75	

Module Level	1	**Semester of Delivery**	1
Administering Department	Microbiology	**College**	College of Veterinary Medicine
Module Leader	Assist.prof.Dr.Ihasn M Ahmed	**e-mail**	Ihsanahmad@uomosul.edu.iq
Module Leader's Acad. Title	Assist.Professor	**Module Leader's Qualification**	Ph.D.
Module Tutor	Prof.Dr.Safwan albaroodi	**e-mail**	safwanyousif@uomosul.edu.iq
Peer Reviewer Name	Osama azaldeen	**e-mail**	Osama.abdulla@uomosul.edu.iq
Scientific Committee Approval Date	15/9/2024	**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 أهداف المادة الدراسية	1. Important Concepts for Understanding risk and biosafety. 2. Working with potentially infected animals. 3. This course deals with biological materials 4. Decontamination and waste disposal 5. To understand storage of chemicals. 6. To understand the first aid and emergency response in the laboratories.	
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	Important: Write at least 6 Learning Outcomes, better to be equal to the number of study weeks. 1. Distinguish between biological materials 2. Understand the types of PPE. 3. Standard microbiological techniques. 4. Give a definition of Hazardous chemicals. 5. Distinguish between biosafety cabinet classes. 6. Describe first aid and emergency response in the laboratories.	
Indicative Contents المحتويات الإرشادية	1- Laboratory safety symbols and hazard signs. 2- Biosafety cabinet classes :Design, Operation, ,use and misuse. 3- Standard Microbiology Techniques and Safety. 4- Safe use of (pipettes ,centrifuge , homogenizers , shakers , blenders , and sonicators ,ampoules containing infectious materials) . 5- Collection , handling and transport of diagnostic specimens. 6- Decontamination and waste disposal.	
	Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	traditional passive teaching methods may not improve laboratory practices and attitude toward biosafety and biosecurity.[6,7] Individuals working in laboratories need to understand the basic concepts of risk management to implement and adapt them to their always evolving environment. Adult education often requires a more interactive approach to be successful, by allowing a direct correlation with their current work environment. This fosters participants' engagement on issues related to the responsible conduct of science (RCS). One recognized educational method for working professionals is to implement active-learning pedagogical methods in the classroom. Developing human resources for biosafety management was achieved by formulating and implementing a series of training workshops to raise the awareness and knowledge of the biosafety and biosecurity rules among life science researchers and hospital employees working with hazardous microorganisms, samples, and genetically modified organisms. These workshops actively engage participants in the learning process, using group discussions, problem solving, case studies, role-playing, and structured learning groups. This enables all participants to promote the integration of new knowledge and best practices into their theoretical and conceptual frameworks as they learn together.	

Student Workload (SWL)

الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	18	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	1
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	57	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	4
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	75		

Module Evaluation

تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	30% (15)	5,and 10	LO #2, and #4
	Assignments	2	4% (2)	4 and 7	LO #3 and #5
	Projects	1	3% (3)	11	LO #1
	Report	1	3% (3)	Continuous	All
Summative assessment	Midterm Exam	2hr	10% (10)	8	LO - #6
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
Week 1	Introduction: Definitions & Concepts Risk, Hazard, Biorisk, Biosafety, andBiosecurity.
Week 2	Biological Materials (Bacteria, Viruses, Fungi, Parasites, Prions, Zoonotic pathogens, Toxins).
Week 3	Personal protective equipment (PPE). Types of PPE, Route of exposure to pathogens.
Week 4	Laboratory safety symbols and hazard signs.
Week 5	Risks groups and Biosafety Levels.
Week 6	Biosafety cabinet classes :Design, Operation, ,use and misuse.
Week 7	Standard Microbiology Techniques and Safety.

Week 8	Safe use of (pipettes ,centrifuge , homogenizers , shakers , blenders , and sonicators ,ampoules containing infectious materials) .
Week 9	Collection , handling and transport of diagnostic specimens.
Week 10	Decontamination and waste disposal.
Week 11	Working with potentially infected animals. General considerations.
Week 12	Hazardous chemicals (Routes of exposure, storage of chemicals, general rules regarding chemical incompatibilities.
Week 13	Toxic effects of chemicals, Explosive chemicals, Chemical spills , Compressed and liquefied gases).
Week 14	Preparedness and response to Chemical, Biological accidents: - In the Laboratories. - In the field.
Week 15	First aid and emergency response in the Laboratories.
Week 16	Preparatory week before the final Exam

Learning and Teaching Resources
مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts		Yes
Recommended Texts	The biological laboratory risk management handbook WHO-Biosafety-Manual	No
Websites		

Grading Scheme
مخطط الدرجات

Group	Grade	التقدير	Marks %	Definition
Success Group (50 - 100)	**A -** Excellent	امتياز	90 - 100	Outstanding Performance
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<td>Module Delivery</td>
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☒ Theory
☐ Lecture
☐ Lab
☐ Tutorial
☐ Practical
☐ Seminar
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<tr>
<td>ECTS Credits</td>
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<td>SWL (hr/sem)</td>
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<td>Semester of Delivery</td>
<td>three</td>
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<td>Administering Department</td>
<td>Anatomy</td>
<td>College</td>
<td>Veterinary medicine</td>
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<td>Module Leader</td>
<td>Mahmood Awad Ali</td>
<td>e-mail</td>
<td></td>
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<td>Module Leader's Acad. Title</td>
<td>Assistant lecturer</td>
<td>Module Leader's Qualification</td>
<td>Master</td>
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العلاقة مع المواد الدراسية الأخرى</td>
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<tr>
<td>Prerequisite module</td>
<td>None</td>
<td>Semester</td>
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<td>Co-requisites module</td>
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<td>Semester</td>
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Module Aims, Learning Outcomes and Indicative Contents
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

Module Aims أهداف المادة الدراسية	The aim of studying the democracy and human rights topics is to: 1. **Understand** the concept of human rights and explore their sources, including international, regional, national, and religious sources. 2. **Define** administrative corruption, explore its types, and understand its detrimental effects on society. Study methods to combat administrative corruption and promote transparency, accountability, and good governance. 3. **Trace** the historical development and evolution of human rights, examining key milestones and movements that have shaped the modern understanding of human rights. 4. **Differentiate** between different categories of human rights, including civil and political rights, economic and social rights, and environmental, cultural, and developmental rights. 5. **Explore** legal, institutional, and societal guarantees to prevent human rights violations, including guarantees of human rights in Islam, national-level protections, and international safeguards. 6. **Comprehend** the concept of democracy, including its principles, values, and various forms of democratic governance such as direct, semi-direct, indirect, and digital democracy. Overall, studying these topics aims to develop a comprehensive understanding of human rights, democracy, and combating corruption, empowering individuals to actively promote and protect human rights and democratic values in society.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	After these module aims, students should be able to: 1. Demonstrate a comprehensive understanding of the concept of human rights and their sources, including international, regional, national, and religious sources. 2. Identify and explain the fundamental characteristics of human rights, such as universality, indivisibility, interdependence, and inalienability. 3. Analyze the historical emergence and evolution of human rights, including key milestones and movements that have shaped their development. 4. Differentiate between different categories of human rights, including civil and political rights, economic and social rights, and environmental, cultural, and developmental rights. 5. Evaluate and apply legal, institutional, and societal guarantees to prevent human rights violations, considering guarantees in Islam, at the national level, and within the international framework. 6. Understand and discuss the concept of democracy, including its principles, values, and different forms of democratic governance. 7. Evaluate the Islamic stance on democracy and engage in critical analysis of the strengths and weaknesses of the democratic system. 8. Recognize and assess the impact of administrative corruption on society and propose methods to combat and prevent corruption in administrative systems. 9. Demonstrate critical thinking skills by analyzing and evaluating different

	perspectives on human rights, democracy, and corruption.
	10. Apply acquired knowledge and skills to promote and protect human rights, democracy, and good governance in personal, professional, and civic contexts. Overall, students should have a solid understanding of democracy and human rights, democracy, and corruption issues, and be able to apply this knowledge to contribute to the advancement of human rights and democratic values in society.
Indicative Contents المحتويات الإرشادية	The indicative content includes: 1. Definition and sources of democracy and human rights (international, regional, national, religious). [3h] 2. Characteristics of democracy and human rights: universality, indivisibility, interdependence, inalienability. [3h] 3. Emergence and evolution of human rights: historical development, key milestones, influential movements. [3h] 4. Types of human rights: civil and political, economic and social, environmental, cultural, and developmental. [3h] 5. Guarantees to prevent human rights violations: legal, institutional, societal safeguards, Islamic guarantees, national and international levels. [3h] 6. Concept of democracy: principles, values, forms of governance (direct, semi-direct, indirect). [3h] 7. Islamic stance on democracy: compatibility, strengths, weaknesses. [3h] 8. Critique of the democratic system: analysis of strengths and weaknesses. [3h] 9. Administrative corruption: definition, types, societal impact. [3h] 10. Methods to combat administrative corruption. [3h]

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	When it comes to learning and teaching strategies for a human rights module, there are several approaches can be taken to enhance understanding and engagement. Here are some effective strategies: 1. Interactive Discussions: Encourage students to actively participate in discussions, debates, and group activities. This promotes critical thinking, allows for different perspectives to be shared, and fosters a deeper understanding of human rights issues. 2. Case Studies: Present real-life case studies that highlight human rights violations or achievements. Analyzing these cases helps students apply theoretical concepts to practical situations and develops their problem-solving skills.

3. Research Projects: Assign research projects on specific human rights topics or issues. This encourages independent learning, critical analysis, and the development of research skills.
4. Collaborative Learning: Foster collaboration among students through group projects or assignments. This encourages teamwork, peer learning, and the exchange of diverse perspectives.
5. Assessment Variety: Use a variety of assessment methods, including essays, presentations, debates, and quizzes, to assess students' understanding of human rights concepts and their ability to apply them to real-world situations.

Student Workload (SWL)
الحمل الدراسي للطالب

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	33	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	2
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	17	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
Formative assessment	Quizzes	2	15% (15)	5, 10	LO #2, 4, 6 and 8
	Assignments	2	15% (15)	3, 5, 8, 11, 13	LO # 1, 3, 7, 6, 9 and 10
	Projects / Lab.				
	Report	1	10% (10)	13	LO # 2,4,5,7,9and 10
Summative assessment	Midterm Exam	2 hr	10% (10)	7	LO # 1-7
	Final Exam	3 hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)
المنهاج الاسبوعي النظري

	Material Covered
Week 1	محاضرة تعريفية
Week 2	حقوق الانسان في الحضارات القديمة.
Week 3	حقوق الانسان في الحضارات القديمة
Week 4	مفهوم وخصائص حقوق الانسان.
Week 5	مفهوم وخصائص حقوق الانسان
Week 6	الاعلان العالمي لحقوق الانسان.
Week 7	الاعلان العالمي لحقوق الانسان
Week 8	نظرة تاريخية في نشوء الفكر الديمقراطي.
Week 9	نظرة تاريخية في نشوء الفكر الديمقراطي
Week 10	مفهوم الديمقراطية.
Week 11	صور الديمقراطية
Week 12	صور الديمقراطية
Week 13	الاسلام والديمقراطية.
Week 14	الديمقراطية والمواطنة وانظمة الحكم.
Week 15	الديمقراطية والمواطنة وانظمة الحكم
Week 16	**Preparatory week before the final Exam**

Delivery Plan (Weekly Lab. Syllabus)
المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	
Week 2	
Week 3	
Week 4	
Week 5	
Week 6	
Week 7	

	Learning and Teaching Resources مصادر التعلم والتدريس	
	Text	Available in the Library?
Required Texts	ضمانات حقوق الانسان وحمايتها وفقا للقانون الدولي والتشريع الوطني / نبيل عبد الرحمن ناصر الدين	No
Recommended Texts	الديمقراطية وحقوق الانسان / د. امير عبد العزيز	No
Websites		

Grading Scheme مخطط الدرجات				
Group	Grade	التقدير	Marks (%)	Definition
Success Group (50 - 100)	**A - Excellent**	امتياز	90 - 100	Outstanding Performance
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Fail Group (0 – 49)	**FX – Fail**	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	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	English Language	Module Delivery
Module Type	Core	☒ Theory ☐ Lecture ☐ Lab ☐ Tutorial ☐ Practical ☐ Seminar
Module Code	UOM1020	
ECTS Credits	2	
SWL (hr/sem)	50	

Module Level	1	Semester of Delivery	1
Administering Department	Type Dept. Code	College	Type College Code
Module Leader	Anwar Mohammad Jasim	e-mail	anwar.a.j@uomosul.edu.iq
Module Leader's Acad. Title	Associate Professor	Module Leader's Qualification	MSc
Module Tutor	Firas Abed	e-mail	firasabed@uomosul.edu.iq
Peer Reviewer Name	Mohammed Ghasan	e-mail	mgsaeed@uomosul.edu.iq
Scientific Committee Approval Date	15/9/2024	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 أهداف المادة الدراسية	1. Teaching Basic English grammar to connect words to form a meaningful sentence with the help of some general rules applied. To keep students understanding English Grammar better, we will try to break the sentence and stress the words which will help them gain the meaning of the sentences. 2. Objective comprehension develops critical reading and thinking skills of the learners. It mainly cultivates and nurtures the love of reading and learning of the students. The main learning outcome of reading comprehension is to gather relevant information regarding English texts. The main objective of reading comprehension is to activate and reinforce the writing, grammar, vocabulary, and punctuation skills of the students. 3. The main objective can be summarized as teaching students the most important English terms that help students in their academic levels. 4. These terms are medical and give the student confidence to use them in several lessons and fields.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. This course seeks to develop the students' abilities in grammar, oral skills, reading, writing and study skills 2. Students will heighten their awareness of correct usage of English grammar in writing and speaking. 3. Students will improve their speaking ability in English both in terms of fluency and comprehensibility. 4. Students will give oral presentations and receive feedback on their performance. 5. Students will increase their reading speed and comprehension of academic articles. 6. Students will improve their reading fluency skills through extensive reading. 7. Students will define veterinary medical terms associated with movement, the Integumentary, skeletal, muscular, nervous, special senses, endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems. 8. Learn to comprehend combinations of roots, suffixes and prefixes in common medical applications. 9. Interpret and apply identified general veterinary medical abbreviations.
Indicative Contents المحتويات الإرشادية	Indicative content includes the following. • Intermediate level teaching or upper intermediate English level. In this section, you can improve students' grammar with our clear and simple grammar lessons. [SSWL=12 hr.] • Teaching reading and writing to help students explore different ways of developing reading and writing skills. [SSWL=6 hr.] • The English language contains an enormous and ever-growing number of words. Enhancing students' vocabulary by learning new words can seem overwhelming, but if the students know the common prefixes and suffixes of English, they will understand many more words. [SSWL=4 hr.] • Mastering common prefixes and suffixes is like learning code. Once you crack the code, you can not only spell words more correctly but also recognize and perhaps even define unfamiliar words. [SSWL=2 hr.] • A combining vowel sometimes is used to make the medical term easier to pronounce. O is the most used as a combining vowel. [SSWL=2 hr.]

	- Additionally, a lot of veterinary medical terms related to the Body Planes, Body cavities, and Cell organelles are taught in the classroom. [SSWL=2 hr.] - Many of the terms used to describe Science of Study and tissue types are included in the syllabus. [SSWL=2 hr.] Total hrs. = SSWL - (Exam hrs.) = 33 - 3 = 30 hrs. (Timetable hrs. x 15 weeks)

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	- Integrating technology into the classroom can make learning more engaging and accessible. Tools like interactive whiteboards, educational apps, and online resources are modern learning approaches. - Provide multiple opportunities for pronunciation of the terms. - Opportunities for students to collaborate with each other Include open-ended questions in the lessons. - Discussion is used in lectures as an effective way of delivering the study material to students.

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	33	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	2
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	17	**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
Formative assessment	Quizzes	5	25% (25)	2, 5, 8, 10 and 14	LO #1, #3, #5, #7, #8, and #9
	Assignments	1	5% (5)	6 and 8	LO #2 #4
	Onsite Assignments	1	5% (5)	10and 12	LO #7, #8
	Report	1	5% (5)	13	LO #2, #3, 4#, #6, #8 and #9
Summative assessment	Midterm Exam	2hr	10% (10)	7	LO #1 - #6
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
المنهاج الاسبوعي النظري	
	Material Covered
Week 1	Introduction
Week 2	Basic grammatical rules Present simple tense
Week 3	Basic grammatical rules
Week 4	Basic grammatical rules Past simple tense
Week 5	Basic grammatical rules
Week 6	Basic grammatical rules Present progressive aspect
Week 7	Basic grammatical rules Past progressive aspect
Week 8	Basic grammatical rules Present perfect tense
Week 9	Basic grammatical rules Past perfect tense
Week 10	Future time
Week 11	Comprehension Reading and writing

Week 12	**Comprehension** **Reading and writing**
Week 13	**Comprehension** **Reading and writing**
Week 14	**Comprehension** **Reading and writing**
Week 15	**Comprehension** **Reading and writing**
Week 16	**Preparatory week before the final Exam**

Learning and Teaching Resources
مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	Books of grammar	Available online
Recommended Texts	Books of comprehension and different selected texts	Available online
Websites	All books will be provided electronically for each student.	

Grading Scheme
مخطط الدرجات

Group	Grade	التقدير	Marks %	Definition
Success Group (50 - 100)	**A** - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	**FX** – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	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	**General Biology**	**Module Delivery**	
Module Type	Core	☒Theory	
Module Code	**VET1010**	☒Lecture	
ECTS Credits	**8**	☒Lab	
SWL (hr/sem)	**200**	☐Tutorial ☐Practical ☐Seminar	
Module Level	1	**Semester of Delivery**	1
Administering Department	Microbiology	**College**	College of Veterinary Medicine
Module Leader	Prof.Dr.wasan Alobaidii	**e-mail**	wasenamkad@uomosul.edu.iq
Module Leader's Acad. Title	Professor	**Module Leader's Qualification**	Ph.D.
Module Tutor	Prof.Dr.safwan albaroodi	**e-mail**	safwanyousif@uomosul.edu.iq
Peer Reviewer Name	Dr.Saba abdelraheem	**e-mail**	Sabaraheem@uomosul.edu.iq
Scientific Committee Approval Date	15/9/2024	**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 أهداف المادة الدراسية	1. Important Concepts for Understanding origin of life 2. Structure of cell and function 3. This course deals with the basic Structure of tissues. 4. Main structure of prokaryotic and eukaryotic 5. To understand Mitosis and Meiosis 6. To understand the Nucleic acid types
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	Important: Write at least 6 Learning Outcomes, better to be equal to the number of study weeks. 1. Distinguish between prokaryotic and eukaryotic. 2. Understand the differences between types of tissues. 3. Describe the basic structure of the cells. 4. Distinguish between different parasites. 5. Describe the microscope. 6. Define what is meant by genes and chromosomes. 7. Discuss types of nucleic acids. 8. Discuss the characters of bacteria and viruses.
Indicative Contents المحتويات الإرشادية	1-Laboratory Equipments 2-The Microscope 3-KingdomMonera/ Prokaryote/Bacteria 4-Kingdom Protista/ Eukaryote (unicellular)/ Mastigophora 5-Kingdom Animalia (multicellular) Invertebrates / Coelenterata / Hydra 6-Cell Division: Binary Fission, Mitosis and Meiosis 7-Types of tissues

Learning and Teaching Strategies
استراتيجيات التعلم والتعليم

Strategies	teaching strategies have experienced a significant shift to meet individual student's needs and being more interactive and activity-based learning through collaboration techniques that would require participation and engagement of learners. Thus, many strategies evolved as an attempt to fulfil the objectives of the learning process, by shifting the focus from instructor-driven to learner-centered teaching strategies. Many universities/colleges do rely on the traditional textbook and memorization approach with poor students' engagement. Some attempts introduced some dynamical models for biological processes which would allow biology students to create their own models for structures. Thus, introducing simulations and modelling modules as teaching methods in biology ,Introduction of simulations and modelling is a significant transformation in biology education towards problem-based learning in undergraduate studies , Virtual tools were developed to simulate real biological characteristics on personal computers leading to better understanding of

genetics concept by the students

advances in science at large including technology,Advances in the field of associated techniques greatly contributed to the current knowledge on biology at systems, organs, cellular and molecular biology levels., ultimately modernizing teaching of cell biology , Further developments in the teaching mode involved the integration of multimedia technology in teaching. It was found that the introduction of multimedia technology in the teaching of biology significantly improved students' achievement , It is evident that the integration of multimedia technology and teaching has altered instructional strategies in educational institutions. Advances in computer applications and educational softwares significantly boosted the educational process. Interactive cloud computing models has been used to solve various biological problems. Such models further enriched the teaching contents and improved teaching effect

Student Workload (SWL)			
الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
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	122	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	8
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	200		

Module Evaluation					
تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	20% (10)	5 and 10	LO #1, #6 ,#8
	Assignments	2	6% (3)	4 and 7	LO #2, #4
	Projects / Lab.	2	10% (5)	Continuous	All
	Report	1	4% (1)	13	LO #5, #7
Summative assessment	Midterm Exam	2hr	10% (10)	8	LO #1 - #3
	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 definitions of terms
Week 2	Origin of life
Week 3	Characteristics of living organisms
Week 4	Kingdoms of living world
Week 5	Kingdom: Monera(prokaryotic)
Week 6	Kingdom: Protista(Eukaryotic)
Week 7	Phylum: Sarcomastigophora
Week 8	Subphylum:Vertebrata(Chordata) Class :Amphibia(frog)
Week 9	Living organisms
Week 10	Comparison between Prokaryotic and Eukaryotic cells
Week 11	Mitosis and Meiosis
Week 12	Types of living tissues
Week 13	General characters of bacteria and viruses
Week 14	Nucleic acid types and functions
Week 15	Genes and Chromosomes
Week 16	Preparatory week before the final Exam

Delivery Plan (Weekly Lab. Syllabus)	
المنهاج الاسبوعي للمختبر	
	Material Covered
Week 1	Laboratory Equipments
Week 2	The Microscope
Week 3	The Cell: Structure of cell & function
Week 4	KingdomMonera/ Prokaryote/Bacteria
Week 5	Kingdom Protista/ Eukaryote (unicellular)/ Mastigophora
Week 6	Kingdom Protista / Eukaryote(unicellular)/ Sarcodena , Ciliophora ,Sporozoa
Week 7	Kingdom Animalia (multicellular) Invertebrates / Coelenterata / *Hydra*
Week 8	Kingdom Animalia (multicellular) Invertebrates Nematoda/Ascaris , Ancylostoma
Week 9	Kingdom Animalia (multicellular) Invertebrates Trematoda/Fasciola,Schistosoma
Week 10	Kingdom Animalia (multicellular) Invertebrates Cestoda/Taenia

Week 11	Kingdom Animalia / vertebrates / Frog , Fish
Week 12	Cell Division: Binary Fission, Mitosis and Meiosis
Week 13	Types of tissues
Week 14	Bacterial staining
Week 15	Preparatory week before the final Exam

Learning and Teaching Resources
مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	**General biology ,2021**	Yes
Recommended Texts	Concepts of Biology	No
Websites		

Grading Scheme
مخطط الدرجات

Group	Grade	التقدير	Marks %	Definition
Success Group (50 - 100)	**A** - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
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Fail Group (0 – 49)	**FX** – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	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

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<tr><td colspan="4" align="center">Module Information
معلومات المادة الدراسية</td></tr>
<tr><td>Module Title</td><td align="center"><strong style="color:red">Skeleton Anatomy</td><td colspan="2">Module Delivery</td></tr>
<tr><td>Module Type</td><td align="center">Core</td><td colspan="2" rowspan="4">☒Theory
☐ Lecture
☒Lab
☐Tutorial
☐Practical
☐Seminar</td></tr>
<tr><td>Module Code</td><td align="center"><strong style="color:red">VET1020</td></tr>
<tr><td>ECTS Credits</td><td align="center">8</td></tr>
<tr><td>SWL (hr/sem)</td><td align="center"><strong style="color:red">150</td></tr>
<tr><td>Module Level</td><td>1</td><td>Semester of Delivery</td><td>1</td></tr>
<tr><td>Administering Department</td><td>Anatomy</td><td>College</td><td>Veterinary medicine</td></tr>
<tr><td>Module Leader</td><td>Adnan Ali Hasso</td><td>e-mail</td><td>adnanhasso69@uomosul.edu.iq</td></tr>
<tr><td>Module Leader's Acad. Title</td><td>Professor</td><td>Module Leader's Qualification</td><td>Master</td></tr>
<tr><td>Module Tutor</td><td>Thekra Fadel Saleh</td><td>e-mail</td><td>thekraaltaee@uomusol.edu.iq</td></tr>
<tr><td>Peer Reviewer Name</td><td>Ali Ahmed Hasan</td><td>e-mail</td><td>ali.ahmad@uomosul.edu.iq</td></tr>
<tr><td>Scientific Committee Approval Date</td><td>15/9/2024</td><td>Version Number</td><td>1.0</td></tr>
</table>

<table>
<tr><td colspan="4" align="center">Relation with other Modules
العلاقة مع المواد الدراسية الأخرى</td></tr>
<tr><td>Prerequisite module</td><td>None</td><td>Semester</td><td></td></tr>
<tr><td>Co-requisites module</td><td>None</td><td>Semester</td><td></td></tr>
</table>

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Objectives أهداف المادة الدراسية	1. Anatomical knowledge is the basis for reasoning and developing surgical techniques as well as for the analysis of medical imaging (radiography, CT, MRI, etc.). It is essential for students to be able to rely on normal examinations in order to build their clinical thought process. 2. Providing a scientific basis for knowing each organ of the body and determining its location and the organs adjacent to it, which helps in forming a complete idea for the student when conducting physical examinations of the animal in an attempt to explain a specific disease condition or diagnose and treat it. 3. Using anatomical information as an introduction to understanding other related sciences such as surgery, obstetrics, and disease diagnosis. 4. Teaching students how to benefit from studying the anatomy of different farm animals in veterinary application in advanced study stages and also after graduation in veterinary clinics and hospitals by linking anatomical facts with clinical science applications. 5. Acquiring scientific skills by reviewing various educational and scientific references and websites worldwide. 6. A descriptive study of the different parts of the animal's body and comparing them with other animals, identifying the most important individual and qualitative differences and determining their functions. 7. Knowing and understanding the relationship between anatomy and other closely related sciences such as physiology and how to benefit from this knowledge in other applied sciences. 8. Identify the normal parts of the animal and compare them later with pathological cases in clinical sciences and work on applying what has been learned to clinical pathological cases.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. The student will acquire the ability to identify the natural shape of each organ of the animal's body. 2. The student should be able to examine the anatomical structures of each organ of the animal's body.

	3. The student's skill in identifying modern laboratory equipment used in preparing anatomical organs and how to fix and maintain them for the purpose of examination and study.
	4. The ability of the newly graduated veterinarian to be familiar with the natural anatomical structures of different animals.
	5. To be familiar with the use of laboratory and field equipment in making anatomical models of various animals.
	6. The newly graduated veterinarian must be prepared to work in specialized veterinary centers and hospitals.
Indicative Contents المحتويات الإرشادية	1- Introduction to anatomy and osteology **6hrs** 2- General description of the skull with comparative **5hrs** 3- General description of the shoulder girdle and bone of the thoracic limb with joints **7hrs** 4- General description of the vertebral column and comparative. **5hrs** 5- General description of the pelvic girdle and bone of the pelvic limb with joints **7hrs** **Total hrs = 30**

Learning and Teaching Strategies
استراتيجيات التعلم والتعليم

Strategies	The main strategy that will be adopted in delivering this module is to learning the students the safe animal examination methods that ensure the safety of the veterinarian firstly and ensure access to the correct diagnosis and treatment of case related to the reproductive system, while improving and expanding students' skills in practical application at the same time. This will be achieved through theoretical lectures, practical lessons and field visits to animal breeding farms.

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

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	93	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	6
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	107	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	7
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	**150**		

Module Evaluation				
تقييم المادة الدراسية				
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	4	20% (20)	6,8,10 & 12	LO #1, #3 and #4, #6
	Assignments	1	5% (5)	7	LO #2 and #5
	Projects / Lab.	1	10% (10)	Continuous	All
	Report	2	5% (5)	13 & 14	LO #4 and #5
Summative assessment	Midterm Exam	2hr	10% (10)	8	LO #1 - #7
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
المنهاج الاسبوعي النظري	
	Material Covered
٣--Week	Introduction to anatomy and osteology
2.5 -Week	General description of the skull with comparative
3.5- Week	General description of the shoulder girdle and bone of the thoracic limb with joints.
2.5- Week	General description of the vertebral column and comparative.
3.5- Week	General description of the pelvic girdle and bone of the pelvic limb with joints
Week 16	Preparatory week before the final Exam

Delivery Plan (Weekly Lab. Syllabus)
المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	Skull comparative.
Week 2	Cervical and thoracic vertebrae in horse with comparative.
Week 3	Lumber, Sacral and coccygeal vertebrae in horse with comparative.
Week 4	Ribs and sternum in horse with comparative.
Week 5	Bones of shoulder girdle - scapula of horse with comparative anatomy.
Week 6	Humerus with comparative anatomy.
Week 7	Radius and ulna with comparative anatomy.
Week 8	Carpal and metacarpal bones in horse with comparative.
Week 9	Digit in horse with comparative.
Week 10	Bones of pelvic girdle - pelvic bone in horse with comparative.
Week 11	Femur and patella in horse with comparative.
Week 12	Tibia and fibula in horse with comparative.
Week 13	Tarsus, metatarsus and digit in horse with comparative.
Week 14	Arteries and nerves of the thoracic limb in sheep
Week 15	Review

Learning and Teaching Resources
مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	Konig H.E., Liebich H.G.. Veterinary Anatomy of Domestic Mammals, Textbook and Coloured Atlas, 3rd ed.Germany 2007	Yes
Recommended Texts	3- Dyce K. M.,Sack W.O., Wensing C. J. G. T textbook Of Veterinary Anatomy. 4th ed. Saunders 2010	Yes
Websites		

Grading Scheme
مخطط الدرجات

Group	Grade	التقدير	Marks %	Definition
Success Group (50 - 100)	**A - Excellent**	امتياز	90 - 100	Outstanding Performance
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Fail Group	**FX – Fail**	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded

(0 – 49)	F – Fail	راسب	(0-44)	Considerable amount of work required

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MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية				
Module Title	**Animal Husbandry**		**Module Delivery**	⊠ Theory ☐ Lecture ☐ Lab ☐ Tutorial ☐ Practical ☐ Seminar
Module Type	Core			
Module Code	**VET1070**			
ECTS Credits	**5**			
SWL (hr/sem)	**125**			
Module Level	UGx11 1	**Semester of Delivery**		2
Administering Department	Dep. of Vet. Pub. Health	**College**	College of Vet. Med.	
Module Leader	Omer Hashem Sheet	**e-mail**	omar.sheet@uomosul.edu.iq	
Module Leader's Acad. Title	Assit. Prof.	**Module Leader's Qualification**		Ph.D.
Module Tutor	Prof. Dr. sufwan Albaroody	**e-mail**	Safwanyousif@uomosul.edu.iq	
Peer Reviewer Name	Assit. Prof. Ayman Abdullah Ali	**e-mail**	amoonizzz@uomosul.edu.iq	
Scientific Committee Approval Date	010/02/2025	**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 أهداف المادة الدراسية	1. Developing and understanding the principles of field Pet Animal Care from a veterinary perspective in a way that supports the practical side of the profession 2. The ability to manage the Pet Animal Care field in the healthiest ways 3. Ability to deal with different Pet Animal. 4. Pet bird feeding and breeding 5. Animal Communication and Behavior	
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. Explanation of scientific subjects through theoretical lectures. 2. Applications of pet animal care in laboratories. 3. Student prepares a scientific related reports with pet animal care 4. Student prepares a scientific related reports with animal husbandry 5. Teaching students about therapeutic methods 6. Animal control	
Indicative Contents المحتويات الإرشادية	This course provides an English language tool for assessing animal behavior in interaction with humans and pets. The psychological and behavioral characteristics of various types of pets are presented. The course will include the advantages of raising pets, principles of health management, diseases that may affect them, and diseases that may be transmitted to humans, as it will address aspects of their causes and prevention. In this course, students will be taught the importance and benefits of raising pets [SSWL= 6 hours]. Also, how to deal with animals and ways to restrain, restrain and control them, along with the methods and means that help in their reproduction. We will focus in these aspects on cats and dogs [SSWL= 6 hours] As for the other aspect, it will address the methods of feeding them (dogs, cats and birds), housing them and estimating their ages [SSWL= 6 hours] Students will also be taught the best methods of vaccination [SSWL= 2 hours] Knowing the behaviors and methods of communicating with pets of all kinds [SSWL= 2 hours] The course will also address the management aspects of some laboratory animals such as guinea pigs and rabbits [SSWL= 6 hours] Finally, general care methods for pet birds [SSWL= 5 hours]. Total hrs = 30 = (Time table 2 hr x 15 weeks)	

	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, dealing with different pet animal to deal with it the basic rules for their health care and management, As well as using devices and tools that assist in controlling animals. This will be achieved through classroom and lessons that will help students understand and apply it in the labor market.	

Student Workload (SWL)

الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	33	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	2
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	92	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	6
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	**125**		

Module Evaluation

تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	**Quizzes**	2	10% (10)	5 and 10	LO #1, #2, #3 and #9, #10, #11
	Assignments	2	10% (10)	2 and 12	LO #3, #4 and #6, #7, #8, #9
	Projects / Lab.				
	Report	1	20% (10)	13	LO #5, #8 and #10, #11
Summative assessment	**Midterm Exam**	2hr	10% (10)	7	LO #1 - #8
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
Week 1	History and Breeds
Week 2	Animal health of pet animal
Week 3	Animal health of pet birds
Week 4	Animal Handling and methods of restrain
Week 5	Management of Reproduction in Dogs
Week 6	Management of Reproduction in Cats
Week 7	Pet feeding

Week 8	Pet bird feeding
Week 9	Housing
Week 10	Age estimation
Week 11	Vaccination
Week 12	Pet Communication and Behavior
Week 13	Guinea pig management
Week 14	Rabbits pet animals
Week 15	Pet bird general care

Learning and Teaching Resources		
مصادر التعلم والتدريس		
	Text	Available in the Library?
Required Texts	Small Animal Care and Management 4th Edition	Yes
Recommended Texts	Veterinary Guide for Animal Owners: Caring for Cats, Dogs, Chickens, Sheep, Cattle, Rabbits and More, 2nd Edition	yes
Websites	https://www.audible.com/cat/Home-Garden/Pets-Animal-Care-Audiobooks/18573724011	

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

<table>
<tr><td colspan="4" align="center">Module Information
معلومات المادة الدراسية</td></tr>
<tr><td>Module Title</td><td align="center">Arabic Language</td><td>Module Delivery</td><td></td></tr>
<tr><td>Module Type</td><td align="center">Basic</td><td colspan="2" rowspan="4">☒Theory
☐ Lecture
☐ Lab
☐ Tutorial
☐Practical
☐Seminar</td></tr>
<tr><td>Module Code</td><td align="center">UOM1010</td></tr>
<tr><td>ECTS Credits</td><td align="center">2</td></tr>
<tr><td>SWL (hr/sem)</td><td align="center">50</td></tr>
<tr><td>Module Level</td><td align="center">1</td><td>Semester of Delivery</td><td>2</td></tr>
<tr><td>Administering Department</td><td></td><td>College</td><td></td></tr>
<tr><td>Module Leader</td><td>رافع عبد الغني يحيى</td><td>e-mail</td><td></td></tr>
<tr><td>Module Leader's Acad. Title</td><td>Lecturer</td><td>Module Leader's Qualification</td><td>Ph.D.</td></tr>
<tr><td>Module Tutor</td><td></td><td>e-mail</td><td></td></tr>
<tr><td>Peer Reviewer Name</td><td></td><td>e-mail</td><td></td></tr>
<tr><td>Scientific Committee Approval Date</td><td>11/06/2023</td><td>Version Number</td><td>1.0</td></tr>
</table>

<table>
<tr><td colspan="4" align="center">Relation with other Modules
العلاقة مع المواد الدراسية الأخرى</td></tr>
<tr><td>Prerequisite module</td><td>None</td><td>Semester</td><td></td></tr>
<tr><td>Co-requisites module</td><td>None</td><td>Semester</td><td></td></tr>
</table>

<table>
<tr><td align="center">Module Aims, Learning Outcomes and Indicative Contents</td></tr>
</table>

	أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية
Module Objectives أهداف المادة الدراسية	١- التعرف على الكلام العربي: من ناحية تعريفة، اقسامة، الى علامات كل قسم منه. ٢- معرفة الجملة العربية واقسام الجملة العربية والجمل الاسمية والجمل الفعلية ٣- التعرف على حركات الاعراب: سواء كانت اصلية او فرعية ٤- معرفة الطالب بالعفل العربي: من حيث الصحة والاعلال ٥- معرفة الطالب الفعل العربي من حيث اللزوم والتعدي ٦- معرفة لطالب الفعل العربي من حيث الزمن ٧- طرق كتابة العدد و تذكرة وتانيثه ٨- معرفة علامات الترقيم في الكلام ٩- تعلم قواعد رسم الهمزة ١٠- التعرف على طريقة كتابة التاء المربوطة، والمبسوطة ١١- قل ولا تقل: الأخطاء الشائعة لدى المتكلمين والكتاب ١٢- معرفة ماهو الأسلوب الخبري، ١٣- معرفة ماهو الأسلوب الانشائي، ١٤- تعلم مهارات لغوية: تنمية الذوق اللغوي، وتحسين الأسلوب لدى المتعلمين
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	١- ان يعرف الطالب الكلام العربي: من ناحية تعريفة، اقسامة، الى علامات كل قسم منه. ٢- ان يتعلم الطالب الجملة العربية واقسام الجملة العربية والجمل الاسمية والجمل الفعلية ٣- التعرف على حركات الاعراب: سواء كانت اصلية او فرعية ٤- ان يعرف الطالب العفل العربي: من حيث الصحة والاعلال ٥- ان يتعلم الطالب الفعل العربي من حيث اللزوم والتعدي ٦- معرفة الطالب الفعل العربي من حيث الزمن ٧- معرف الطالب طرق كتابة العدد و تذكرة وتانيثه ٨- معرفة الطالب لعلامات الترقيم في الكلام ٩- ان يتعلم الطالب قواعد رسم الهمزة ١٠- معرف الطالب على طريقة كتابة التاء المربوطة، والمبسوطة ١١- قل ولا تقل: الأخطاء الشائعة لدى المتكلمين والكتاب ١٢- التعرف على الأسلوب الخبري، ١٣- معرفة ماهو الأسلوب الانشائي، ١٤- التعلم على مهارات لغوية: تنمية الذوق اللغوي، وتحسين الأسلوب لدى المتعلمين
Indicative Contents المحتويات الإرشادية	١- التعرف على الكلام العربي: من ناحية تعريفة، اقسامة، الى علامات كل قسم منه[ساعه ٢] ٢- معرفة الجملة العربية واقسام الجملة العربية والجمل الاسمية والجمل الفعلية، ساعه ٢ ٣- التعرف على حركات الاعراب: سواء كانت اصلية او فرعية، ساعه ٢ ٤- معرفة الطالب بالعفل العربي: من حيث الصحة والاعلال، ساعه ٢ ٥- معرفة الطالب الفعل العربي من حيث اللزوم والتعدي، ساعه ٢ ٦- معرفة لطالب الفعل العربي من حيث الزمن، ساعه ٢ ٧- طرق كتابة العدد و تذكرة وتانيثه، ساعه ٢ ٨- معرفة علامات الترقيم في الكلام، ساعه ٢ ٩- تعلم قواعد رسم الهمزة، ساعه ٢ ١٠- التعرف على طريقة كتابة التاء المربوطة، والمبسوطة، ساعه ٢ ١١- قل ولا تقل: الأخطاء الشائعة لدى المتكلمين والكتاب ، ساعه ٢ ١٢- معرفة ماهو الأسلوب الخبري، ساعه ٢ ١٣- معرفة ماهو الأسلوب الانشائي، ساعه ٢ ١٤- التعلم مهارات لغوية: تنمية الذوق اللغوي، وتحسين الأسلوب لدى المتعلمين، ساعه ٢

Learning and Teaching Strategies	
استراتيجيات التعلم والتعليم	
Strategies	الإستراتيجية الرئيسية التي سيتم تبنيها في تقديم هذه الوحدة هي تشجيع الطلاب على المشاركه في الكلام الفري وكتبابته بالصورة الصحيحه ، مع تحسين مهارات التفكير النقدي وتوسيعها في نفس الوقت. سيتم تحقيق ذلك من خلال الفصول والبرامج التعليمية التفاعلية ومن خلال النظر في أنواع التجارب البسيطة التي تتضمن بعض أنشطة أخذ العينات التي تهم الطلاب.

Student Workload (SWL)			
الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	33	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	2
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	17	**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**
Formative assessment	Quizzes	٢	٢٠% (٢٠)	5 and 10	LO #1, #2 and #10, #11
	Assignments	٢	١٠% (١٠)	2 and 12	LO #3, #4 and #6, #7
	Assignments	١	٥% (٥)	2 and 12	LO #3, #4 and #6, #7
	Report	٥	٥% (٥)	13	LO #5, #8 and #10
Summative assessment	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	الكلام العربي: تعريفة، اقسامة، وعلامات كل قسم.

Week 2	الجملة العربية: تعريفها ، اقسامها : الاسمية والفعلية
Week 3	حركات الاعراب: اصلية، فرعية
Week 4	العفل العربي: من حيث الصحة والاعلال
Week 5	الفعل العربي من حيث اللزوم والتعدي
Week 6	الفعل العربي من حيث الزم
Week 7	امتحان
Week 8	العدد: تذكرة، وتانيثه
Week 9	علامات الترقيم في الكلام
Week 10	قواعد رسم الهمزة
Week 11	التاء المربوطة، والمبسوطة
Week 12	قل ولا تقل: الأخطاء الشائعة لدى المتكلمين والكتاب
Week 13	الأسلوب الخبري،
Week 14	والأسلوب الإنشائي
Week 15	مهارات لغوية: تنمية الذوق اللغوي، وتحسين الأسلوب لدى المتعلمين
Week 16	امتحان نهاية الفصل

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

Learning and Teaching Resources		
مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	جامع الدروس العربية: الشيخ مصطفى الغلاييني	no
Recommended Texts	الجملة العربية: تأليفها وأقسامها د. فاضل السامرائي	No

Websites	https://www.almrsal.com/post/923401

Grading Scheme مخطط الدرجات				
Group	**Grade**	التقدير	**Marks %**	**Definition**
Success Group (50 - 100)	**A -** Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	**FX** – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	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	**Computer**	**Module Delivery**	
Module Type	**B**	☒ Theory ☐ Lecture ☒ Lab ☐ Tutorial ☐ Practical ☐ Seminar	
Module Code	**UOM1030**		
ECTS Credits	**3**		
SWL (hr/sem)	**75**		
Module Level	1	**Semester of Delivery**	2
Administering Department	Type Dept. Code	**College**	Type College Code
Module Leader	Iman Thannoon Sedeeq	**e-mail**	iman.sedeeq@uomosul.edu.iq
Module Leader's Acad. Title	lecturer	**Module Leader's Qualification**	Ph.D.
Module Tutor	Rasha Jamal Aldeen Raghad mohammed Jasim	**e-mail**	Rashajamal84@uomosul.edu.iq Reghad.m.j81@uomosul.edu.iq
Peer Reviewer Name	Name	**e-mail**	E-mail
Scientific Committee Approval Date		**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 أهداف المادة الدراسية	1. Utilize the computer for fundamental tasks 2. Identify and discuss the hardware components of the computer 3. Identify the basics of the operating system 4. Creating documents using word processor , creating presentations using powerpoint and creating and formatting worksheets using excel. 5. Conducting research on the internet. 6. Introduction to basics of electronic mail and cloud computing and services.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. The student will have the knowledge of using the computer for fundamental tasks. 2. The student knows how the computers work 3. The student will have the required knowledge and skills to use Ms-programs (Word, Powerpoint and Excel) to create documents, presentations, and worksheets 4. The student will be able to conduct research on the internet 5. The student will be able to write, send and receive an email 6. The student will have the basic knowledge of cloud computing and services
Indicative Contents المحتويات الإرشادية	Indicative content includes the following. The course will provide the following: - Concepts of hardware and software and their components [SSWL= 3hour] - Concepts of operating system functions and usage SSWL= [2 hour] - Creating and formatting documents using word processor SSWL= [2 hour] - Creating and formatting presentations using powerpoint SSWL= [2 hour] - Creating and formatting worksheets using spreadsheet software SSWL= [2 hour] - How to conduct research on the internet SSWL= [2 hour] - Sending and receiving an electronic email SSWL= [1 hour] - Definition of cloud computing and services SSWL= [1 hour] Total hrs = 30= (Time table 1 hr x 15 weeks)- theoretical Total hrs = 60 = (Time table 2 hr x 15 weeks)- practical

	Learning and Teaching Strategies
	استراتيجيات التعلم والتعليم
Strategies	1. Combination of theoretical lectures and practical applications of given concepts in those lectures. 2. Quizzes and homework.

	Student Workload (SWL)		
الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	63	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	4
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	12	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	75		

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

	Delivery Plan (Weekly Syllabus)
	المنهاج الاسبوعي النظري
	Material Covered
Week 1	Introduction to computers: concepts of hardware and software
Week 2	Computer portions, I/O units and Memory types
Week 3	Computer types and features
Week 4	Basics of operating system
Week 5	Operating system and graphical user interface
Week 6	Word processing :basics and formatting text
Week 7	Word processing: creating and managing tables
Week 8	Introduction to spreadsheet software
Week 9	Pivot table, data validation and data visualization

Week 10	Introduction to PowerPoint
Week 11	Advanced features in Powerpoint: hyperlinks and action buttons
Week 12	Computer network concepts
Week 13	Web browser software and engines and understanding URL
Week 14	Basics of electronic mail
Week 15	Cloud computing and services
Week 16	**Preparatory week before the final Exam**

	Delivery Plan (Weekly Lab. Syllabus) المنهاج الاسبوعي للمختبر
	Material Covered
Week 1	Lab1: Introduction to computers: concepts of hardware and software
Week 2	Lab2: Computer portions, I/O units and Memory types
Week 3	Lab3: Computer types and features
Week 4	Lab4: Basics of operating system
Week 5	Lab5: Operating system and graphical user interface
Week 6	Lab6: Word processing :basics and formatting text
Week 7	Lab7: Word processing: creating and managing tables
Week 8	Lab8: Introduction to spreadsheet software
Week 9	Lab9: Pivot table, data validation and data visualization
Week 10	Lab10: Introduction to PowerPoint
Week 11	Lab11: Advanced features in Powerpoint: hyperlinks and action buttons
Week 12	Lab12: Computer network concepts
Week 13	Lab13: Web browser software and engines and understanding URL
Week 14	Lab14: Basics of electronic mail
Week 15	Lab15: Cloud computing and services

	Learning and Teaching Resources مصادر التعلم والتدريس	
	Text	**Available in the Library?**
Required Texts	- Graham Brown, David Watson, "Cambridge IGCSE Information and communication Technology", 3rd Edition(2020) - Microsoft office 2019 step by step 1st Edition by Curits Frye and Joan Lambart	

Recommended Texts	
Websites	Coursera.org, udemy.com

Grading Scheme مخطط الدرجات				
Group	**Grade**	**التقدير**	**Marks %**	**Definition**
Success Group (50 - 100)	**A -** Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
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Fail Group (0 – 49)	**FX –** Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	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

<table>
<tr><td colspan="4" align="center">Module Information
معلومات المادة الدراسية</td></tr>
<tr><td>Module Title</td><td><strong style="color:red">General Chemistry</td><td colspan="2">Module Delivery</td></tr>
<tr><td>Module Type</td><td>Basic</td><td colspan="2" rowspan="4">☒ Theory
☐ Lecture
☒ Lab
☐ Tutorial
☐ Practical
☐ Seminar</td></tr>
<tr><td>Module Code</td><td><strong style="color:red">VET1050</td></tr>
<tr><td>ECTS Credits</td><td>6</td></tr>
<tr><td>SWL (hr/sem)</td><td><strong style="color:red">150</td></tr>
<tr><td>Module Level</td><td>1</td><td>Semester of Delivery</td><td>2</td></tr>
<tr><td>Administering Department</td><td>Physiology, Biochemistry and Pharmacology</td><td>College</td><td>Veterinary Medicine</td></tr>
<tr><td>Module Leader</td><td>Elham M. Hachim</td><td>e-mail</td><td>elhelham91@uomosul.edu.iq</td></tr>
<tr><td>Module Leader's Acad. Title</td><td>Professor</td><td>Module Leader's Qualification</td><td>Ph.D.</td></tr>
<tr><td>Module Tutor</td><td>Yaareb J. Mousa</td><td>e-mail</td><td>yarub204@uomosul.edu.iq</td></tr>
<tr><td>Peer Reviewer Name</td><td>Zaineb F. Saaed</td><td>e-mail</td><td>zainabfa1q@uomosul.edu.iq</td></tr>
<tr><td>Scientific Committee Approval Date</td><td>15/9/2024</td><td>Version Number</td><td>1.0</td></tr>
</table>

<table>
<tr><td colspan="4" align="center">Relation with other Modules
العلاقة مع المواد الدراسية الأخرى</td></tr>
<tr><td>Prerequisite module</td><td>None</td><td>Semester</td><td></td></tr>
<tr><td>Co-requisites module</td><td>None</td><td>Semester</td><td></td></tr>
</table>

Module Aims, Learning Outcomes and Indicative Contents
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

Module Objectives أهداف المادة الدراسية	1. To understand atoms, molecules, and biomolecules. 2. To develop problem solving skills and understanding of principles of biochemistry. 3. The course deals with the basic concept of carbohydrates, lipids, proteins, enzymes, and vitamins. 4. This course includes biochemistry and biochemical reactions inside animal body.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. Basics of biochemistry and its relationship to other basic and clinical sciences from the molecular and cellular levels to tissues, organs and various body systems. 2. Identify how animal body biomolecules integrate with each other. 3. List the main carbohydrates classification and importance to body. 4. Identify types of lipids and their functions. 5. Classify amino acids and proteins with their main function. 6. List the various biochemical tests that can be conduct. 7. Recognize the biochemical fluctuations associated with different disorders and diseases in animals.
Indicative Contents المحتويات الإرشادية	Indicative content includes the following: Part A – Analytic and organic chemistry • Atom • Types of bonds • Preparation of solutions • Molarity and molality • Aldehydes and ketones • Alcohols and carboxylic acids • Amines and amides [SSWL=6 hrs] Part B - Carbohydrates • Definition, Classification and Functions of Carbohydrates • Structure of Glucose • Isomerism • Mutarotation • Chemical Properties of Monosaccharides • Glycoside Formation • Derivatives of Monosaccharides • Disaccharides • Polysaccharides (Glycans) • Glycoproteins [SSWL=8 hrs] Part C - Lipids •Definition, Classification and Functions of Lipids • Fatty Acids • Essential Fatty Acids • Reactions of Lipids • Characterization of Fat • Triacylglycerols and Neutral Fat • Phospholipids

	• Glycolipids • Cholesterol • Lipoproteins • Eicosanoids
	• Micelles, Lipid Bilayer and Liposomes.
	[SSWL=6 hrs]
	Part D – Amino acids and proteins
	•General Nature of Amino Acids
	• Classification of Amino Acids
	• Modified or Nonstandard Amino Acids
	• Properties of Amino Acids
	• Biologically Important Peptides
	• Definition, Classification and Functions of Proteins
	• Structure of Proteins
	• Properties of Proteins
	[SSWL=10 hrs]
	Total hrs = 30

Learning and Teaching Strategies
استراتيجيات التعلم والتعليم

Strategies	Encouraging the student's commitment to attendance and active participation in lectures and taking daily, semester and final theoretical and practical exams. Using educational and technological means, and the modern method in teaching the subject and referring to practical training examples. Discussion is used in lectures as an effective means of delivering the study material to students and keeping up with the latest methods, approaches and modern trends in the teaching process.

Student Workload (SWL)			
الحمل الدراسي للطالب محسوب لـ ١٥ أسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	63	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	4
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	87	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	5
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	**150**		

Module Evaluation					
تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	4	20% (20)	4, 6, 8, 10	LO #1, #2, #3, #4
	Assignments	1	5% (5)	9	LO #5, #6, #7
	Projects / Lab.	1	5% (5)	Continuous	All
	Report	1	10% (10)	12	LO #1, #5 and #6
Summative assessment	Midterm Exam	1hr	10% (10)	10	LO #1-#5
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
المنهاج الاسبوعي النظري	
	Material Covered
Week 1	Atom and Types of bonds
Week 2	Preparation of solutions, molarity and molality
Week 3	Aldehydes and ketones, Alcohols, carboxylic acids, amines and amides
Week 4	Classification and Functions of Carbohydrates
Week 5	Monosaccharides and Disaccharides
Week 6	Derivatives of Monosaccharides
Week 7	Polysaccharides
Week 8	Classification and Functions of Lipids
Week 9	Fatty Acids
Week 10	Lipoproteins
Week 11	General Nature of Amino Acids and Classification of Amino Acids
Week 12	Modified or Nonstandard Amino Acids
Week 13	Properties of Amino Acids and Biologically Important Peptides
Week 14	Definition, Classification of Proteins
Week 15	Functions and properties of proteins
Week 16	**Preparatory week before the final Exam**

Delivery Plan (Weekly Lab. Syllabus)	
المنهاج الاسبوعي للمختبر	
	Material Covered
Week 1	General Instruction
Week 2	Preparation of solutions : solid substances
Week 3	Preparation of solutions : liquid substances
Week 4	Saponification
Week 5	Preparation of aspirin
Week 6	Qualitative analysis of carbohydrates: general test of carbohydrates
Week 7	Reducing properties of sugars
Week 8	Polysaccharide tests
Week 9	Qualitative analysis of proteins
Week 10	Specific color reactions of amino acids
Week 11	Emulsification
Week 12	Qualitative analysis of lipids
Week 13	Tests for fatty acids
Week 14	Tests for cholesterol
Week 15	Acid number
Week 16	**Preparatory week before the final Exam**

Learning and Teaching Resources		
مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	General, Organic, and Biochemistry. 9th Edition (2022) Katherine Denniston et al., McGraw Hill / Medical Publisher.	Yes
	Biochemistry by Pankaja Naik (Author), 6th edition (2022), Jaypee Brothers Medical Publishers Pvt Ltd.	Yes
Recommended Texts	Harper's Illustrated Biochemistry, 32nd Edition (2023) by Peter J. Kennelly (Author), Kathleen M. Botham (Author), Owen McGuinness (Author). McGraw Hill / Medical Publisher.	Yes
Websites	https://themedicalbiochemistrypage.org/	

Grading Scheme مخطط الدرجات				
Group	**Grade**	التقدير	**Marks %**	**Definition**
Success Group (50 - 100)	**A** – Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 – 89	Above average with some errors
	C – Good	جيد	70 – 79	Sound work with notable errors
	D – Satisfactory	متوسط	60 – 69	Fair but with major shortcomings
	E – Sufficient	مقبول	50 – 59	Work meets minimum criteria
Fail Group (0 – 49)	**FX** – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	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	**Muscular Anatomy**	**Module Delivery**	
Module Type	Core	☒Theory	
Module Code	**VET1060**	☐ Lecture ☒Lab	
ECTS Credits	**8**	☐Tutorial ☐Practical	
SWL (hr/sem)	**150**	☐Seminar	
Module Level	1	**Semester of Delivery**	1
Administering Department	Anatomy	**College**	Veterinary medicine
Module Leader	Ammar Ghanim Alhaaik	**e-mail**	alhaaik_ag@uomosul.edu.iq
Module Leader's Acad. Title	Assist.Professor	**Module Leader's Qualification**	PhD
Module Tutor	Thekra Fadel Saleh	**e-mail**	thekraaltaee@uomusol.edu.iq
Peer Reviewer Name	Ali Ahmed Hasan	**e-mail**	ali.ahmad@uomosul.edu.iq
Scientific Committee Approval Date	15/9/2024	**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 أهداف المادة الدراسية	1. Anatomical knowledge is the basis for reasoning and developing surgical techniques as well as for the analysis of medical imaging (radiography, CT, MRI, etc.). It is essential for students to be able to rely on normal examinations in order to build their clinical thought process. 2. Providing a scientific basis for knowing each organ of the body and determining its location and the organs adjacent to it, which helps in forming a complete idea for the student when conducting physical examinations of the animal in an attempt to explain a specific disease condition or diagnose and treat it. 3. Using anatomical information as an introduction to understanding other related sciences such as surgery, obstetrics, and disease diagnosis. 4. Teaching students how to benefit from studying the anatomy of different farm animals in veterinary application in advanced study stages and also after graduation in veterinary clinics and hospitals by linking anatomical facts with clinical science applications. 5. Acquiring scientific skills by reviewing various educational and scientific references and websites worldwide. 6. A descriptive study of the different parts of the animal's body and comparing them with other animals, identifying the most important individual and qualitative differences and determining their functions. 7. Knowing and understanding the relationship between anatomy and other closely related sciences such as physiology and how to benefit from this knowledge in other applied sciences. 8. Identify the normal parts of the animal and compare them later with pathological cases in clinical sciences and work on applying what has been learned to clinical pathological cases.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. The student will acquire the ability to identify the natural shape of each organ of the animal's body. 2. The student should be able to examine the anatomical structures of each organ of the animal's body.

	3. The student's skill in identifying modern laboratory equipment used in preparing anatomical organs and how to fix and maintain them for the purpose of examination and study. 4. The ability of the newly graduated veterinarian to be familiar with the natural anatomical structures of different animals. 5. To be familiar with the use of laboratory and field equipment in making anatomical models of various animals. 6. The newly graduated veterinarian must be prepared to work in specialized veterinary centers and hospitals.
Indicative Contents المحتويات الإرشادية	1- Introduction to myology **9hrs** 2- General description of head, neck and shoulder girdle muscles with name, origin and insertion. **8hrs** 3- General description of thoracic limb muscles with name, origin and insertion. **10hrs** 4- General description of abdominal and sub- lumbar muscles with name, origin and insertion.. **8hrs** 5- General description of pelvic girdle muscles and pelvic limb muscles with name, origin and insertion.**10hrs** **Total hrs = 45**

Learning and Teaching Strategies
استراتيجيات التعلم والتعليم

Strategies	The main strategy that will be adopted in delivering this module is to learning the students the safe animal examination methods that ensure the safety of the veterinarian firstly and ensure access to the correct diagnosis and treatment of case related to the reproductive system, while improving and expanding students' skills in practical application at the same time. This will be achieved through theoretical lectures, practical lessons and field visits to animal breeding farms.

Student Workload (SWL)			
الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	93	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	6
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	107	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	7
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	**150**		

Module Evaluation				
تقييم المادة الدراسية				
	Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	4	20% (20)	6,8,10 & 12	LO #1, #3 and #4, #6
	Assignments	1	5% (5)	7	LO #2 and #5
	Projects / Lab.	1	10% (10)	Continuous	All
	Report	1	5% (5)	13 & 14	LO #4 and #5
Summative assessment	Midterm Exam	2hr	10% (10)	8	LO #1 - #7
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
المنهاج الاسبوعي النظري	
	Material Covered
٣--Week	Introduction to myology
2.5 -Week	General description of head, neck and shoulder girdle muscles with name, origin and insertion.
3.5- Week	General description of thoracic limb muscles with name, origin and insertion
2.5- Week	General description of abdominal and sub- lumbar muscles with name, origin and insertion
3.5- Week	General description of pelvic girdle muscles and pelvic limb muscles with name, origin and insertion
Week 16	Preparatory week before the final Exam

Delivery Plan (Weekly Lab. Syllabus)
المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	Muscles of the head in sheep
Week 2	Muscles of the neck in sheep
Week 3	Muscles of the shoulder girdle in the sheep
Week 4	Muscles of the shoulder lateral group
Week 5	Muscles of the shoulder medial group
Week 6	Muscles of the arm and manus (extensors and flexors muscles)
Week 7	Muscles of the forearm and manus (extensors and flexors muscles)
Week 8	Arterial and nerve supply of the thoracic limb in sheep
Week 9	Muscle of respiratory system
Week 10	Muscles of the sub- lumbar region with the lateral muscles of hip and thigh in the sheep
Week 11	Muscles of the medial region of hip and thigh with cranial muscle of thigh in the sheep
Week 12	Flexor and extensor muscle of the pelvic limb
Week 13	Arterial and nerve supply of the pelvic limb in sheep
Week 14	Muscles of the abdominal wall
Week 15	Review .

Learning and Teaching Resources
مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	Konig H.E., Liebich H.G.. Veterinary Anatomy of Domestic Mammals, Textbook and Coloured Atlas, 3rd ed.Germany 2007	Yes
Recommended Texts	3- Dyce K. M.,Sack W.O., Wensing C. J. G. T textbook Of Veterinary Anatomy. 4th ed. Saunders 2010	Yes
Websites		

Grading Scheme
مخطط الدرجات

Group	Grade	التقدير	Marks %	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings

	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	**FX** – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required

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MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية			

Module Title	**Poultry Management**	**Module Delivery**	
Module Type	Core	☒ Theory ☐ Lecture ☒ Lab ☐ Tutorial ☐ Practical ☐ Seminar	
Module Code	**VEH1080**		
ECTS Credits	**5**		
SWL (hr/sem)	**125**		
Module Level	1	**Semester of Delivery**	2
Administering Department	Dep. of Vet. Pub. Health	**College**	College of Vet. Med.
Module Leader	Thamer Abdulazeez Ezzulddin	**e-mail**	thamer1961 @uomosul.edu.iq
Module Leader's Acad. Title	Professor	**Module Leader's Qualification**	Ph.D.
Module Tutor	Yaman saad Fadel	**e-mail**	Ymansaadds@ uomosul.edu.iq
Peer Reviewer Name	Ayman Hani Taha Suliman	**e-mail**	Dr_vetayman@uomosul.edu.iq
Scientific Committee Approval Date	15/9/2024	**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 أهداف المادة الدراسية	1. Developing and understanding the principles of field poultry management from a veterinary perspective in a way that supports the practical side of the profession 2. The ability to manage the poultry field in the healthiest ways 3. Ability to deal with different types of poultry
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. Explanation of scientific subjects through theoretical lectures. 2. Training of students for practical applications in laboratories. 3. Student prepare a scientific related reports.
Indicative Contents المحتويات الإرشادية	Indicative content includes the following. Introduction to poultry science Advantages of Chicken farming, Principles of health management, poultry diseases Causes, Various aspects for prevention and control of poultry diseases. In this section, the student learns the importance and benefits of investing in the poultry sector, the risks involved, and how to avoid and control them. [SSWL=3 hrs] Types of disinfectants used in poultry farms, Poultry houses, types. Cleaning. Fumigation, Stress Management in Poultry. In this section, the student learns the types of fields used in poultry farming and the types of sterilizers used in cleaning, sterilization and fumigation. [SSWL=3 hrs] Hatching and hatchery management. In this section, the student learns how to select eggs suitable for hatching and operate and manage incubators. [SSWL=1 hr] Broiler chicken production, Layers chicken raising, Broiler breeder raising. In this section, the student learns how to raise different types of poultry breeds according to the nature of their production (meat or eggs). [SSWL=3 hrs] Vaccination and Preventive Medication, Routes of administration of vaccine, this section, the student learns the types of vaccines given to poultry, how to store them, and how to administer them.es. [SSWL=1 hr] Breeding turkey, ducks and geese. In this section, the student learns about raising ducks, geese, and turkeys, and the feeds used in feeding. [SSWL=1 hr] Feed materials, food additives and medicines, feed formulation, and drinking Water. In this section, the student learns about the crops used in nutrition and how to grind and mix them to form suitable feeds, as well as the specifications of drinking water, especially wells water. [SSWL=15 hrs] Total hrs = 15 = (Time table hr x 15 weeks)

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, dealing with different chicken and knowing the basic rules for their management, As well as using devices and tools that assist in Chicken reproduction. This will be achieved through classroom and practical lessons that will help students understand and apply.

Student Workload (SWL)

الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	48	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	3
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	77	Unstructured SWL (h/w) 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
Formative assessment	Quizzes	2	20% (20)	5 and 10	LO #1, #2, and #3
	Assignments	1	5% (5)	2 and 12	LO #1 #2 and #3
	Projects / Lab.	1	10% (10)	Continuous	All
	Report	1	5% (5)	13	LO #1, #2, and #3
Summative assessment	Midterm Exam	2hr	10% (10)	8	LO #1 - #3
	Final Exam	3hr	50% (50)	16	All
Total assessment		100% (100 Marks)			

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
Week 1	Poultry Industry in Iraq and Terminology
Week 2	Poultry Health Management
Week 3	Biology of the chickens
Week 4	Egg structure and Hygiene; Factors affecting egg production
Week 5	Artificial Hatching and Hatcheries
Week 6	Poultry houses Design
Week 7	Nutrition and Rations Formation
Week 8	Chick brooding
Week 9	Management of Breeder, Broiler and Layer chickens
Week 10	Poultry managements in hot climate `
Week 11	Management of Ostrich, turkey, duck and geese

Week 12	Biosecurity in poultry industry
Week 13	Vaccination Management
Week 14	Poultry waste management
Week 15	Introduction to poultry management diseases
Week 16	**Preparatory week before the final Exam**

Delivery Plan (Weekly Lab. Syllabus)
المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	Lab 1: Classification of poultry
Week 2	Lab 2: Phenotypes of poultry
Week 3	Lab 3: Egg Storage – Disinfection and Fumigation
Week 4	Lab 4: Sexing and sex-linked traits
Week 5	Lab 5: Poultry Equipment's
Week 6	Lab 6: Feeding formulation and Calculations of feed components in rations
Week 7	Lab 7: Anatomy of avian digestive system
Week 8	Lab 8: Anatomy of avian respiratory system
Week 9	Lab 9: Anatomy of avian immune system Introduction to immunology
Week 10	Lab 10: Anatomy of avian circulatory system , reproductive system and urinary system
Week 11	Lab 11: Disinfection of poultry Houses and Hatcheries
Week 12	Lab 12: Vaccination programs
Week 13	Lab 13: Lighting and Systems for poultry
Week 14	Lab 14: Ventilation Systems for poultry
Week 15	Lab 15: Visiting of poultry farm

Learning and Teaching Resources		
مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	Poultry Science / Poultry Nutrition and Management	Yes
Recommended Texts	Poultry Health - A Guide for Professionals	yes
Websites	https://www.routledge.com/Animal-Husbandry-Regained-The-Place-of-Farm-Animals-in-Sustainable-Agriculture/Webster/p/book/9781849714211	

Grading Scheme مخطط الدرجات				
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