



**Ministry of Higher Education  
and Scientific Research**

**Scientific supervision and evaluation device**

**Department of Quality Assurance and Academic Accreditation**

**Accreditation Department**

**university of Diyala**

**veterinary collage**

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***Academic program and course description guide for the  
internal medicine branch of study***

**2024**

## Introduction:

The educational program is considered a coordinated and organized package of academic courses that include procedures and experiences organized in the form of academic vocabulary, the main purpose of which is to build and refine the skills of graduates, making them qualified to meet the requirements of the labor market. It is reviewed and evaluated annually through internal or external audit procedures and programs such as the external examiner program.

The description of the academic program provides a brief summary of the main features of the program and its courses, indicating the skills that students are working to acquire based on the objectives of the academic program. The importance of this description is evident because it represents the cornerstone of obtaining program accreditation, and the teaching staff

participates in writing it under the supervision of the scientific committees in the scientific departments.

This guide, in its second edition, includes a description of the academic program after updating the vocabulary and paragraphs of the previous guide in light of the latest developments in the educational system in Iraq, which included a description of the academic program in its traditional form (annual, quarterly), in addition to adopting the description of the academic program circulated according to the book of the Department of Studies 3/2906. On 5/3/2023 with regard to programs that adopt the Bologna Process as a basis for their work.

In this area, we can only emphasize the importance of writing descriptions of academic programs and courses to ensure the smooth conduct of the educational process.

**Ministry of Higher Education and Scientific Research  
Supervision and Scientific Evaluation Agency  
Quality Assurance and Academic Accreditation department  
Accreditation Department**

**Academic program  
and course  
description guide**

**2024**

## **Academic program description form**

University name: **Diyala.**

College/Institute: **College of Veterinary Medicine.**

Scientific Department: **Pathology and poultry diseases.**

Name of the academic or professional program: **Bachelor's degree.**

Name of final degree: **Bachelor of Veterinary Medicine and Surgery.**

Study system: **one semester.**

Description preparation date: **2024**

Date of filling the file: **9/5/2024**

**signature:**

**Name of department head:**

**Date:**

**signature:**

**Name of Scientific**

**Check the file by**

**Quality Assurance and Academic Accreditation department**

**Name of Head of Quality Assurance and Academic Accreditation  
department:**

**Date**

**Signature**

## **Authentication of the Dean**

### **1. Program vision**

Excellence and creativity in the field of veterinary science in accordance with international standards and leadership in veterinary education and scientific research to ensure the public health and the development of livestock with a cleaner environment.

### **2. Program message**

Preparing graduates of veterinarians and scientific talents specialized in veterinary medicine and surgery to contribute to protecting from diseases, diagnosing and treating their diseases, and preserving and developing livestock, as well as combating common diseases and environmental pollution.

### 3.Aims of program

- 1- Clarification of veterinary ethics.
- 2- Clarification of laws of veterinary medicine.

### 4. Program accreditation

Theoretical lectures.

### 5. Other external influences

library, Internet

### 6. Program structure

Notes *	Percentasge	Units	Course	Program structure
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	<b>100</b>	<b>1</b>	<b>1</b>	<b>Enterprise requirements</b>
	<b>100</b>	<b>1</b>	<b>1</b>	<b>College requirements</b>
	<b>100</b>	<b>1</b>	<b>1</b>	<b>Department requirements</b>
		<b>not found</b>		<b>Summer training</b>
				<b>others</b>

\* ممكن ان تتضمن الملاحظات فيما اذا كان المقرر أساسي او اختياري .

<b>7. Program description:</b>				
<b>Hours</b>		<b>Course name</b>	<b>Course symbol</b>	<b>Year / level</b>
<b>practical</b>	<b>theoretical</b>	<b>Veterinary ethics</b>		<b>5<sup>th</sup> /2024</b>
<b>not</b>	<b>1</b>			



**9. Teaching and learning strategies**

Giving theoretical lectures.

**8. Expected learning outcomes of the programmed**

**Knowledge/introducing students to the principles of poultry diseases**

**learning outcomes statement**

**learning outcomes**

**Skills**

**1- The ability of the graduate to be a high veterinarian qualified from the veterinary ethics.**

**2- To be experience the laws of veterinary medicine.**

**learning outcomes statement**

**learning outcomes**

**learning outcomes statement**

**learning outcomes**

**Values / Gaining the ability to deal with and treat animals**

**learning outcomes statement**

**learning outcomes**

learning outcomes statement	learning outcomes
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**10. Methods of Evaluation**

- 1- Conducting oral and written tests, daily and monthly.
- 2- Student participation and interaction in the classroom.
- 3- Performing assigned activities and duties

**11. The Stuff of department**

**Members of Staff**

Numbers		Special requirements/skills (if found)		Specialization		Scientific rank
Lecturer	stuff			Special	General	
none	1			pathology	Veterinary and surgery medicine	professor
	1			pathology	Veterinary and surgery medicine	Assist. Prof.
	1			pathology		lecture

	1			pathology	Veterinary and surgery medicine  Veterinary and surgery medicine	assist. Lecture
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<b>Professional development</b>
<b>Orienting new faculty members</b>
Preparing seminars and introductory courses for new teachers, along with holding periodic meetings to introduce them to the work context and daily guidance, and to give ongoing advice and guidance.
<b>Professional development for faculty members</b>
Continuous learning through searching for new developments using the library and the Internet, in addition to attending seminars and discussions

<b>12. Acceptance standard</b>
Admission is centralized by the Ministry of Higher Education and Scientific Research, based on the student's average in secondary school.

13. The most important sources of information about the program

Library of college  
Central library of university

14. Program development plan

- 1- Developing the scientific and administrative staff through annual evaluation that reveals strengths and weaknesses.
- 2- Proposing strategies, plans and executive policies to ensure quality and reliability.
- 3- Preparing comprehensive data and statistics about the college, its goals, departments, activities and future plans
- 4- Developing guidelines for methods of applying quality and academic accreditation in order to achieve the best

**Program skills chart**

Learning outcomes required from the programme

3ج	skills		Knowledge				Essential or optional	Course name	Course symbol	Year				
	2ج	1ج	4ب	3ب	2ب	1ب					4أ	3أ	2أ	1أ
											Essential	veterinary ethics		3 <sup>d</sup> /20
											Essential	veterinary ethics		

## Course description form

Course name

**Veterinary ethics**

Course symbol

Year / semester

2023/2024

Date

9-5-2024

Available attendance forms

Mandatory attendance

Number of study hours (total)/number of units (total)

Theoretical 15 hrs

number of units: 1 unit

Name of the course administrator (if more than one name is mentioned)

Prof. Dr. Ahmed J. Mohammed

Assist. Prof. Dr. Anas A. Humadi  
Lecture Mohammed Abed Mahmoud  
Assist. Lecture Eman A. Azawee

Aims of course

**Study the veterinary ethics and the laws.**

Strategies of teaching and learning

- 1-Using the method of presenting on the screen, asking direct questions to the students and involving them in the lecture.
- 2- Assigning the student to write a report on the veterinary ethics.
- 3- Display colorful pictures and videos of veterinary ethics.

Course structure Theoretical veterinary ethics course program / five level / second course

Evaluation method	Learning method	Unit	The outcomes	Hours	week
Exam	Lecture	Veterinary ethics	Veterinarian medical doctor duties	1	1
Exam	Lecture	Veterinary ethics	Ethics of veterinarians	1	2
Exam	Lecture	Veterinary ethics	Veterinary job licenses	1	3

Exam	Lecture	Veterinary ethics	Veterinary medicine clinic	1	4
Exam	Lecture	Veterinary ethics	Veterinary medical services	1	5
Exam	Lecture	Veterinary ethics	Veterinary medical consultant burses	1	6
Exam	Lecture	Veterinary ethics	Order for giving consultant	1	7
Exam	Lecture	Veterinary ethics	Graduating consultant of veterinaries	1	8
Exam	Lecture	Veterinary ethics	Job ethics	1	9
Exam	Lecture	Veterinary ethics	Job ethics	1	10
Exam	Lecture	Veterinary ethics	Job ethics	1	11
Exam	Lecture	Veterinary ethics	Job ethics	1	12
Exam	Lecture	Veterinary ethics	Job ethics	1	13
Exam	Lecture	Veterinary ethics	Job ethics	1	14
Exam		Veterinary ethics	Job ethics	1	15

### Course evaluation

Final exam of the course

Short quizzes

The activities

### Learning and teaching references

Required textbooks (methodology )

Veterinarian by Piper Hopple

The general references



<p>Veterinarian by Rachel Schott</p>	
<ul style="list-style-type: none"> <li>- Veterinary medical journals issued by Iraqi veterinary medical colleges.</li> <li>- Arab and international veterinary medical journals</li> </ul>	<p>Recommended supporting books and references (scientific journals, reports....)</p>
<p><a href="http://www.iasj.net">http://www.iasj.net</a> Iraqi academic scientific journals</p> <p><a href="http://www.bls.gov/k12/nature04.htm">http://www.bls.gov/k12/nature04.htm</a></p> <p><a href="http://public.careercruising.com/us/en">http://public.careercruising.com/us/en</a></p>	<p>Electronic references, Internet sites</p>

## **Concepts and terminology:**

Description of the academic program: The description of the academic program provides a brief summary of its vision, mission, and objectives, including an accurate description of the targeted learning outcomes according to specific learning strategies.

Course Description: Provides a necessary summary of the most important characteristics of the course and the learning outcomes that the student is expected to achieve, demonstrating whether he or she has made the most of the available learning opportunities. It is derived from the program description.

Program Vision: An ambitious picture for the future of the academic program to be a developed, inspiring, motivating, realistic and applicable program.

The program's mission: It briefly explains the goals and activities necessary to achieve them, and also defines the program's development paths and directions.

Program objectives: These are statements that describe what the academic program intends to achieve within a specific period of time and are measurable and observable.

Curriculum structure: All courses/study subjects included in the academic program according to the approved learning system (semester, annual, Bologna track), whether it is a requirement (ministry, university, college, or scientific department), along with the number of study units.

Learning outcomes: A consistent set of knowledge, skills, and values that the student has acquired after the successful completion of the academic program. The learning outcomes for each course must be determined in a way that achieves the program objectives.

Teaching and learning strategies: They are the strategies used by the faculty member to develop the student's teaching and learning, and they are plans that are followed to reach the learning goals. That is, it describes all curricular and extracurricular activities to achieve the learning outcomes of the programme.

## **Academic program description form**

University name: Diyala University

College/Institute: College of Veterinary Medicine

Scientific Department: Department of Internal Medicine

Name of the academic or professional program: Bachelor of Veterinary  
Medicine

Name of final degree: Bachelor of Veterinary Medicine and Surgery

Study system: semester/courses

Description preparation date: 2024

Date of filling the file: 9/1/2023

**Check the file by**

**Quality Assurance and Academic Accreditation department**

**Name of Head of Quality Assurance and Academic Accreditation  
department:**

**Date**

**Signature**

**Authentication of the Dean**

### **1. Program vision**

After graduation our students will be able to work in a multidisciplinary team in the veterinary health sector.

To ensure optimal team performance and effective results in treating medical cases.

### **2. Program message**

Our college seeks to obtain international accreditation and rise to the global level in terms of quality of outputs and graduation highly qualified veterinarians in caring for field and pet animals, and serving the community.

### **3. objectives of the program**

- Achieving quality standards based on scientific institutional quality standards.
- Graduating veterinarians with a bachelor's degree in veterinary medicine and surgery, who are able to conduct and examine Disease cases, diagnosing the disease and providing treatment on scientific basis.

□After graduation, our students will be able to work in a multidisciplinary team in the health and wealth sector

Animals to ensure optimal team performance and effective results for the safety of society and field animals.

□Preparing veterinarians capable of interacting in the workplace and solving urgent problems in the livestock sector.

□ Graduating doctors with high skills and knowledge in conducting scientific research in various specialized fields.

□Encouraging faculty members, staff, and students to enhance their technical skills and benefit from modern technologies in transferring knowledge, producing scientific research, and creating curricula for educational programs.

□Implementing a development program for faculty and staff.

#### **4. Program accreditation**

The application process has begun

#### **5. Other external influences**

Veterinary hospital, library, Internet, community, Doctors Syndicate

#### **6. Program structure**

Program structure	percentage	Credit hours	Number of Courses	Reviews
	%100		9	Institution Requirements
	%100		9	College Requirements
	%100		9	Department Requirements
				Summer Training
	.....	.....	.....	Other

\*Notes may include whether the course is basic or elective.

7.Program description				
Credit hours		Name of the course or course	Course or course code	Year/level
practical	theoretical			
30hours		Veterinary application		the third
120 hours	90 hours	Internal medicine		the fourth
	90 hours	Infectious diseases		
60 hours	30 hours	Clinic		
		Pathological diagnoses		

	15 hours	Epidemiological		
	30 hours	zoonotic diseases		
120 hours	90 hours	Internal medicine		Fifth
	15 hours	Clinic		
		Research methods		

8. Expected learning outcomes of the program
<b>Knowledge</b>
<p>1.Learning Outcomes 1 Study of various internal diseases, especially common ones or emergency cases that the veterinarian may face.</p> <p>-2Identifying medical conditions and methods of treating them.</p> <p>-3Understanding the veterinary pathological interactions between internal diseases and diseases in other branches</p> <p>-4Knowing ways to prevent some diseases</p> <p>-5Identifying the legal responsibilities for some diseases, especially transmissible ones</p> <p>Statement of learning outcomes</p>
<b>Skills</b>
<p>-1Take an accurate medical history, especially for infectious diseases</p> <p>-2The correct methods for measuring and reading clinical conditions</p> <p>3-Clinical skills in examining animals</p>
<b>Value</b>
<p>1- Developing expertise by dealing with transitional situations</p> <p>2- Recognizing professional responsibility in dealing with communicable diseases</p>



3-Using modern methods in treating medical conditions

## **9. Teaching and learning strategies**

- 1.Theoretical lectures using illustrations (interactive whiteboard and data show(
- 2.Practical application of concepts studied in laboratories and the veterinary hospital.
- 3.Seminars (students are assigned a topic within the curriculum for presentation and discussion)
- 4.Solving scientific problems by discussing them within small groups to reach the correct solutions
5. In-person and electronic blended learning for student activities via the e-learning platform (Classroom)

## **10. Evaluation methods**

- 1.Discussion within lectures
- 2.Mid-course exams and end-of-course exams
- 3.Continuous evaluation
- 4.Clinical groups
- 5.Practical exams

## 11. The teaching staff

### Faculty members

Preparing the teaching staff		Special requirements/skills (if any)		Specialization		Scientific rank
lecturer	Basic			private	general	
nothing	√			Internal and preventive medicine	Veterinary medicine and surgery	ا.م.د رعد محمود حسين
nothing	√			Internal and preventive medicine	Veterinary medicine and surgery	ا.م.د احمد حنش خلاف
nothing	√			Internal and preventive medicine	Veterinary medicine and surgery	ا.م.د طارق رفعت منت
nothing	√			Internal and preventive medicine	Veterinary medicine and surgery	ا.م. وليد ابراهيم جليل
nothing	√			Internal preventive medicine	Veterinary medicine and surgery	م.د رؤى عدنان
nothing	√			zoonotic diseases	Veterinary medicine and surgery	م.م ايات جاسم
experienced				Medicine treatment	Veterinary medicine and surgery	ا.د نزار جبار مصلح

## **Professional development**

Orienting new faculty members

Guiding new faculty members through preparing courses and seminars in addition to meetings for college councils and councils Branches and through official notifications on the official website.

## **Professional development for faculty members**

Continuing and permanent education through searching for developments in the library and scientific journals And the Internet, in addition to scientific seminars and seminars, and through practice in hospitals Veterinary.

## **12. Acceptance criterion**

1. Central admission through the Ministry of Higher Education and Scientific Research, based on the sixth grade average, is done via an electronic form
2. Parallel acceptance channel

## **13. The most important sources of information about the program**

1. University website
2. The website of the Ministry of Higher Education and Scientific Research
- 3- The college library and the university's central library

#### **14. Program development plan**

1. Developing academic curricula annually and updating them in line with developments in the diagnosis and treatment of diseases

Esotericism

2. Developing the scientific and administrative staff in the college based on annual evaluations and diagnosing areas of weakness

And strength

3. Developing senior leaders, faculty members, employees, and workers at the college

### Program skills chart

Learning outcomes required from the programme												Essential or optional	Course Name	Course Code	Year/level
values				skills				Knowledge							
4 <sub>ج</sub>	3 <sub>ج</sub>	2 <sub>ج</sub>	1 <sub>ج</sub>	4 <sub>ب</sub>	3 <sub>ب</sub>	2 <sub>ب</sub>	1 <sub>ب</sub>	4 <sub>ا</sub>	3 <sub>ا</sub>	2 <sub>ا</sub>	1 <sub>ا</sub>				
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	Veterinary application		the third
												Basic			
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	Internal medicine		the fourth
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	Infectious diseases		
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	Clinical pathology		

		✓				✓				✓		Basic	<b>Epidemiological</b>		<b>Fifth</b>
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	<b>Clinic</b>		
		✓				✓				✓		Basic	<b>Zoonotic diseases</b>		
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	<b>Internal medicine</b>		
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	<b>clinic</b>		
			✓				✓				✓	Basic	<b>Research of methods</b>		

•Please check the boxes corresponding to the individual learning outcomes from the program subject to evaluation

## Course description form

1. Course Name:	
medicine	
2. Course Code:	
Fourth year	
3. Semester / Year:	
First and 2 <sup>nd</sup> semester 2023-2024	
4. Description Preparation Date:	
20	
5. Available Attendance Forms:	
Mandatory attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
90 hours	
7. Course administrator's name (mention all, if more than one name)	
الاسم: ا.م.د. احمد خنش خلاف      الايميل: ahmed.h@uodiyala.edu.iq	
8-Course Objective	
Course Objectives	<ul style="list-style-type: none"> <li>-1Identify internal diseases of field anim</li> <li>-2Diagnosis of diseases related to animal production (milk, meat(</li> <li>-3Identify diseases of the musculoskeletal system</li> <li>-4Identify diseases of the cardiovascular system</li> <li>-5Identify diseases of the urinary system</li> <li>-6Diseases resulting from poisoning</li> <li>7- Nutritional deficiency diseases</li> </ul>

## 9. Teaching and learning strategies

1- The method of delivery is accompanied by interrogation by directing questions to the students and involving them in the lecture.

-2Assigning the student to write reports related to the course topics.

-4Displaying pictures and films of surgical operations through the data show device.

5- Use of computers

## 10. Course structure

Evaluation method	Learning method	Unit or subject name	Required learning Outcomes	Hours	Week

## 11. Course evaluation

Daily exams

Reports preparation

Mid-course exam

final exam

## 12 .Learning and teaching resources

Veterinary Medicine

Required textbooks (methodology, if any(



<ul style="list-style-type: none"> <li>- Large animal internal medicine</li> <li>- Disease of dairy cattle</li> <li>- Bovine medicine</li> <li>Disease of small Ruminants</li> </ul>	Main references (sources(
<ul style="list-style-type: none"> <li>Veterinary medical journals -</li> <li>issued by Iraqi veterinary medical .colleges</li> <li>ab and international medical -</li> <li>journals</li> </ul>	Recommended supporting books and references (scientific journals, reports(....
<a href="http://www.iasj.net">http://www.iasj.net</a> Iraqi academic scien journals	Electronic references, Internet sites

### Course Structure: Internal Medicine/fourth Stage/First Course

Evaluation method	Learning method	Unit or subject name	Required learning Outcomes	Hours	Week
<i>Exam</i>	practical	Introductions	ا + ب + ج	3	1
<i>Exam</i>	practical	Disease of Buccal cavity	ا + ب + ج	3	2
<i>Exam</i>	practical	SIMPLE INDIGESTION	ا + ب + ج	3	3
<i>Exam</i>	practical	RUMINAL TYMPANY	ا + ب + ج	3	4
<i>Exam</i>	practical	TRAUMATIC RETICULOPERITONITIS	ا + ب + ج	3	5
<i>Exam</i>	practical	VAGUS INDIGESTION	ا + ب + ج	3	6
<i>Exam</i>	practical	Right-SIDE DISPLACEMENT OF THE ABOMASUM	ا + ب + ج + د	3	7
<i>Exam</i>	practical	LEFT-SIDE DISPLACEMENT OF THE ABOMASUM	ا + ب + ج + د	3	8
<i>Exam</i>	practical	INTESTINAL OBSTRUCTION IN CATTLE	ا + ب + ج + د	3	9

<i>Exam</i>	practical	HEMORRHAGIC BOWEL	ا + ب + ج + د	3	10
<i>Exam</i>	practical	DIETARY ABOMASAL IMPACTI ON IN CATTLE	ا + ب + ج + د	3	11
<i>Exam</i>	practical	ABOMASAL ULCERS OF CATTLE	ا + ب + ج + د	3	12
<i>Exam</i>	practical	1 EQUIN E COLIC	ا + ب + ج + د	3	13
<i>Exam</i>	practical	Diseases of the liver	ا + ب + ج + د	3	14
<i>Exam</i>	practical	Manifestations of liver and biliary disease	ا + ب + ج + د	3	15
<b>Course Structure: Internal Medicine/fourth Stage/second Course</b>					
<i>Exam</i>	practical	Diseases of the Respiratory System	ا + ب + ج + د	3	1
<i>Exam</i>	practical	Principal manifestations of respiratory insufficiency	ا + ب + ج + د	3	2
<i>Exam</i>	practical	Diseases of the pleura and diaphragm	ا + ب + ج + د	3	3
<i>Exam</i>	practical	Special examination of the respiratory system	ا + ب + ج + د	3	4
<i>Exam</i>	practical	PRINCIPLES TREATMENT OF RESPIRATORY TRACT DISEASE	ا + ب + ج + د	3	5
<i>Exam</i>	practical	DISEASES OF THE LUNG	ا + ب + ج + د	3	6
<i>Exam</i>	practical	Diffuse diseases of the brain	ا + ب + ج + د	3	7

<i>Exam</i>	practical	INCREASED INTRACRANIAL PRESSURE	ا + ب + ج + د	3	8
<i>Exam</i>	practical	Focal diseases of the brain	ا + ب + ج + د	3	9
<i>Exam</i>	practical	Diseases of the epidermis and dermis	ا + ب + ج + د	3	10
<i>Exam</i>	practical	Disease of wool ,hair .follics	ا + ب + ج + د	3	11
<i>Exam</i>	practical	Diseases of the skin, conjunctiva, and External ear and PPT	ا + ب + ج + د	3	12
<i>Exam</i>	practical	Dermatitis and dermatosis	ا + ب + ج + د	3	13
<i>Exam</i>	practical	Diseases of the skin	ا + ب + ج + د	3	14
<i>Exam</i>	practical	URTICARIA	ا + ب + ج + د	3	15

**Check the file by**

**Quality Assurance and Academic Accreditation department**

**Name of Head of Quality Assurance and Academic Accreditation department:**

**Date**

**Signature**

## **Academic program description form**

University name: Diyala University

College/Institute: College of Veterinary Medicine

Scientific Department: Department of Internal Medicine

Name of the academic or professional program: Bachelor of Veterinary  
Medicine

Name of final degree: Bachelor of Veterinary Medicine and Surgery

Study system: semester/courses

Description preparation date: 2024

Date of filling the file: 9/1/2023

**Raad Mahmmd**

## 2. Program vision

After graduation our students will be able to work in a multidisciplinary team in the veterinary health sector.

To ensure optimal team performance and effective results in treating medical cases.

## 2. Program message

Our college seeks to obtain international accreditation and rise to the global level in terms of quality of outputs and graduation highly qualified veterinarians in caring for field and pet animals, and serving the community.

## 3. objectives of the program

□ Achieving quality standards based on scientific institutional quality standards.

□ Graduating veterinarians with a bachelor's degree in veterinary medicine and surgery, who are able to conduct and examine

Disease cases, diagnosing the disease and providing treatment on scientific basis.

□ After graduation, our students will be able to work in a multidisciplinary team in the health and wealth sector

Animals to ensure optimal team performance and effective results for the safety of society and field animals.

□Preparing veterinarians capable of interacting in the workplace and solving urgent problems in the livestock sector.

□ Graduating doctors with high skills and knowledge in conducting scientific research in various specialized fields.

□Encouraging faculty members, staff, and students to enhance their technical skills and benefit from modern technologies in transferring knowledge, producing scientific research, and creating curricula for educational programs.

□Implementing a development program for faculty and staff.

#### 4. Program accreditation

The application process has begun

#### 5. Other external influences

Veterinary hospital, library, Internet, community, Doctors Syndicate

#### 6. Program structure

Program structure	percentage	Credit hours	Number of Courses	Reviews
	%100		9	Institution Requirements
	%100		9	College Requirements

	%100		9	Department Requirements
				Summer Training
	.....	.....	.....	Other

\*Notes may include whether the course is basic or elective.

7. Program description				
Credit hours		Name of the course or course	Course or course code	Year/level
practical	theoretical			
30hours		Veterinary application		the third
120 hours 60 hours	90 hours 90 hours 30 hours 15 hours 30 hours	Internal medicine Infectious diseases Clinic Pathological diagnoses Epidemiological zoonotic diseases		the fourth
120 hours	90 hours 15 hours	Internal medicine Clinic Research methods		Fifth

## 8. Expected learning outcomes of the program

### Knowledge

1.Learning Outcomes 1 Study of various internal diseases, especially common ones or emergency cases that the veterinarian may face.

-2Identifying medical conditions and methods of treating them.

-3Understanding the veterinary pathological interactions between internal diseases and diseases in other branches

-4Knowing ways to prevent some diseases

-5Identifying the legal responsibilities for some diseases, especially transmissible ones

Statement of learning outcomes

### Skills

-1Take an accurate medical history, especially for infectious diseases

-2The correct methods for measuring and reading clinical conditions

3-Clinical skills in examining animals

### Value

1- Developing expertise by dealing with transitional situations

2- Recognizing professional responsibility in dealing with communicable diseases

3-Using modern methods in treating medical conditions

## 9. Teaching and learning strategies

1.Theoretical lectures using illustrations (interactive whiteboard and data show(



2. Practical application of concepts studied in laboratories and the veterinary hospital.

3. Seminars (students are assigned a topic within the curriculum for presentation and discussion)

4. Solving scientific problems by discussing them within small groups to reach the correct solutions

5. In-person and electronic blended learning for student activities via the e-learning platform (Classroom)

## **10. Evaluation methods**

1. Discussion within lectures

2. Mid-course exams and end-of-course exams

3. Continuous evaluation

4. Clinical groups

5. Practical exams

## **11. The teaching staff**

**Faculty members**

Preparing the teaching staff		Special requirements/skills (if any)		Specialization		Scientific rank
lecturer	Basic			private	general	
nothing	√			Internal and preventive medicine	Veterinary medicine and surgery	ا.م.د رعد محمود حسين
nothing	√			Internal and preventive medicine	Veterinary medicine and surgery	ا.م.د احمد حنش خلاف
nothing	√			Internal and preventive medicine	Veterinary medicine and surgery	ا.م.د طارق رفعت منت
nothing	√			Internal and preventive medicine	Veterinary medicine and surgery	ا.م. وليد ابراهيم جليل
nothing	√			Internal preventive medicine	Veterinary medicine and surgery	م.د رؤى عدنان
nothing	√			zoonotic diseases	Veterinary medicine and surgery	م.م ايات جاسم
experienced				Medicine and treatment	Veterinary medicine and surgery	ا.د نزار جبار مصلح

**Professional development**

### Orienting new faculty members

Guiding new faculty members through preparing courses and seminars in addition to meetings for college councils and councils Branches and through official notifications on the official website.

### Professional development for faculty members

Continuing and permanent education through searching for developments in the library and scientific journals And the Internet, in addition to scientific seminars and seminars, and through practice in hospitals Veterinary.

## 12. Acceptance criterion

1. Central admission through the Ministry of Higher Education and Scientific Research, based on the sixth grade average, is done via an electronic form
2. Parallel acceptance channel

## 13. The most important sources of information about the program

1. University website
2. The website of the Ministry of Higher Education and Scientific Research
- 3- The college library and the university's central library

## 14. Program development plan

1. Developing academic curricula annually and updating them in line with developments in the diagnosis and treatment of diseases

Esotericism

2. Developing the scientific and administrative staff in the college based on annual evaluations and diagnosing areas of weakness

And strength

3. Developing senior leaders, faculty members, employees, and workers at the college

### Program skills chart

Learning outcomes required from the programme												Essential or optional	Course Name	Course Code	Year/level
values				skills				Knowledge							
4 <sub>ج</sub>	3 <sub>ج</sub>	2 <sub>ج</sub>	1 <sub>ج</sub>	4 <sub>ب</sub>	3 <sub>ب</sub>	2 <sub>ب</sub>	1 <sub>ب</sub>	4 <sub>ا</sub>	3 <sub>ا</sub>	2 <sub>ا</sub>	1 <sub>ا</sub>				
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	Veterinary application		the third
												Basic			
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	Internal medicine		the fourth
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	Infectious diseases		
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	Clinical pathology		

		✓				✓				✓		Basic	<b>Epidemiological</b>		<b>Fifth</b>
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	<b>Clinic</b>		
		✓				✓				✓		Basic	<b>Zoonotic diseases</b>		
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	<b>Internal medicine</b>		
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	<b>clinic</b>		
			✓				✓				✓	Basic	<b>Research of methods</b>		

•Please check the boxes corresponding to the individual learning outcomes from the program subject to evaluation

## Course description form

1. Course Name:	
Medicine	
2. Course Code:	
Fifth year	
3. Semester / Year:	
First and 2 <sup>nd</sup> semester 2023-2024	
4. Description Preparation Date:	
20	
5. Available Attendance Forms:	
Mandatory attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
90 hours	
7. Course administrator's name (mention all, if more than one name)	
الاسم: ا.م.د. رعد محمود حسين      الاميل: raad.m@uodiyala.edu.iq	
8-Course Objective	
Course Objectives	<ul style="list-style-type: none"> <li>-1Identify internal diseases of field anim</li> <li>-2Diagnosis of diseases related to animal production (milk, meat(</li> <li>-3Identify diseases of the musculoskeletal system</li> <li>-4Identify diseases of the cardiovascular system</li> <li>-5Identify diseases of the urinary system</li> <li>-6Diseases resulting from poisoning</li> <li>7- Nutritional deficiency diseases</li> </ul>

## 9. Teaching and learning strategies

1- The method of delivery is accompanied by interrogation by directing questions to the students and involving them in the lecture.

-2Assigning the student to write reports related to the course topics.

-4Displaying pictures and films of surgical operations through the data show device.

5- Use of computers

## 10. Course structure

Evaluation method	Learning method	Unit or subject name	Required learning Outcomes	Hours	Week

## 11. Course evaluation

Daily exams

Reports preparation

Mid-course exam

final exam

## 12 .Learning and teaching resources

Veterinary Medicine

Required textbooks (methodology, if any(



<ul style="list-style-type: none"> <li>- Large animal internal medicine</li> <li>- Disease of dairy cattle</li> <li>- Bovine medicine</li> <li>- Disease of small Ruminants</li> </ul>	Main references (sources(
<ul style="list-style-type: none"> <li>- Veterinary medical journals issued by Iraqi veterinary medical colleges</li> <li>- Lab and international medical journals</li> </ul>	Recommended supporting books and references (scientific journals, reports(....
<ul style="list-style-type: none"> <li>- <a href="http://www.iasj.net">http://www.iasj.net</a> Iraqi academic science journals</li> </ul>	Electronic references, Internet sites

### Course Structure: Internal Medicine/Fifth Stage/First Course

Evaluation method	Learning method	Unit or subject name	Required learning Outcomes	Hours	Week
<i>Exam</i>	Theoretical	Introductions	ا + ب + ج	3	1
<i>Exam</i>	Theoretical	Milk fever	ا + ب + ج	3	2
<i>Exam</i>	Theoretical	Milk fever, Downer cow syndrom	ا + ب + ج	3	3
<i>Exam</i>	Theoretical	Diseases caused by nutritional deficiencies: Introduction	ا + ب + ج	3	4
<i>Exam</i>	Theoretical	Downer cow syndrom	ا + ب + ج	3	5
<i>Exam</i>	Theoretical	Hypomagnesemia tetany	ا + ب + ج	3	6
<i>Exam</i>	Theoretical	Pregnancy toxemia, Azoturia	ا + ب + ج + د	3	7
<i>Exam</i>	Theoretical	Iodine deficiency Zinc deficiency,	ا + ب + ج + د	3	8
<i>Exam</i>	Theoretical	Ketosis	ا + ب + ج + د	3	9
<i>Exam</i>	Theoretical	Postparturient hemoglobinuria	ا + ب + ج + د	3	10

<i>Exam</i>	Theoretical	Vitamin A deficiency	ا + ب + ج + د	3	11
<i>Exam</i>	Theoretical	Vitamin E and selenium deficiency	ا + ب + ج + د	3	12
<i>Exam</i>	Theoretical	Vitamin D deficiency	ا + ب + ج + د	3	13
<i>Exam</i>	Theoretical	Copper deficiency	ا + ب + ج + د	3	14
<i>Exam</i>	Theoretical	Deficiency of calcium, magnesium and phosphorus, Deficiency of vitamin C and manganese, Deficiency of thiamin, B12, riboflavin and choline	ا + ب + ج + د	3	15

**Course Structure: Internal Medicine/Fifth Stage/Second Course**

<i>Exam</i>	Theoretical	Diseases of cardiovascular system	ا + ب + ج + د	3	1
<i>Exam</i>	Theoretical	Diseases of cardiovascular system	ا + ب + ج + د	3	2
<i>Exam</i>	Theoretical	Diseases of cardiovascular system	ا + ب + ج + د	3	3
<i>Exam</i>	Theoretical	Diseases of cardiovascular system	ا + ب + ج + د	3	4
<i>Exam</i>	Theoretical	Diseases of cardiovascular system	ا + ب + ج + د	3	5
<i>Exam</i>	Theoretical	Diseases of urinary system	ا + ب + ج + د	3	6
<i>Exam</i>	Theoretical	Diseases of urinary system	ا + ب + ج + د	3	7

<i>Exam</i>	Theoretical	Diseases of urinary system	ا + ب + ج + د	3	8
<i>Exam</i>	Theoretical	Diseases of musculoskeletal system	ا + ب + ج + د	3	9
<i>Exam</i>	Theoretical	Diseases of musculoskeletal system	ا + ب + ج + د	3	10
<i>Exam</i>	Theoretical	Diseases of musculoskeletal system	ا + ب + ج + د	3	11
<i>Exam</i>	Theoretical	Diseases of musculoskeletal system, Diseases caused by poisonous materials	ا + ب + ج + د	3	12
<i>Exam</i>	Theoretical	Diseases caused by poisonous materials	ا + ب + ج + د	3	13
<i>Exam</i>	Theoretical	Diseases caused by poisonous materials	ا + ب + ج + د	3	14
<i>Exam</i>	Theoretical	Diseases caused by poisonous materials	ا + ب + ج + د	3	15

الاستاذ المساعد الدكتور  
 رعد محمود حسين  
 رئيس فرع الطب الباطني والوقائي

**Concepts and terminology:**

Description of the academic program: The description of the academic program provides a brief summary of its vision, mission, and objectives, including an accurate description of the targeted learning outcomes according to specific learning strategies.

Course Description: Provides a necessary summary of the most important characteristics of the course and the learning outcomes that the student is expected to achieve, demonstrating whether he or she has made the most of the available learning opportunities. It is derived from the program description.

Program Vision: An ambitious picture for the future of the academic program to be a developed, inspiring, motivating, realistic and applicable program.

The program's mission: It briefly explains the goals and activities necessary to achieve them, and also defines the program's development paths and directions.

Program objectives: These are statements that describe what the academic program intends to achieve within a specific period of time and are measurable and observable.

Curriculum structure: All courses/study subjects included in the academic program according to the approved learning system (semester, annual, Bologna track), whether it is a requirement (ministry, university, college, or scientific department), along with the number of study units.

Learning outcomes: A consistent set of knowledge, skills, and values that the student has acquired after the successful completion of the academic program. The learning outcomes for each course must be determined in a way that achieves the program objectives.

Teaching and learning strategies: They are the strategies used by the faculty member to develop the student's teaching and learning, and they are plans that are followed to reach the learning goals. That is, it describes all curricular and extracurricular activities to achieve the learning outcomes of the programme.

## **Academic program description form**

University name: Diyala University

College/Institute: College of Veterinary Medicine

Scientific Department: Department of Internal Medicine

Name of the academic or professional program: Bachelor of Veterinary  
Medicine

Name of final degree: Bachelor of Veterinary Medicine and Surgery

Study system: semester/courses

Description preparation date: 2024

Date of filling the file: 9/1/2023

التوقيع :

اسم المعاون العلمي:

التاريخ :

التوقيع :

اسم رئيس القسم: رعد محمود  
حسين

التاريخ :

دقق الملف من قبل

شعبة ضمان الجودة والأداء الجامعي

اسم مدير شعبة ضمان الجودة والأداء الجامعي:

التاريخ

التوقيع

مصادقة

السيد العميد

### 3. Program vision

After graduation our students will be able to work in a multidisciplinary team in the veterinary health sector.

To ensure optimal team performance and effective results in treating medical cases.

### 2. Program message

Our college seeks to obtain international accreditation and rise to the global level in terms of quality of outputs and graduation highly qualified veterinarians in caring for field and pet animals, and serving the community.

### **3. objectives of the program**

□ Achieving quality standards based on scientific institutional quality standards.

□ Graduating veterinarians with a bachelor's degree in veterinary medicine and surgery, who are able to conduct and examine

Disease cases, diagnosing the disease and providing treatment on scientific basis.

□ After graduation, our students will be able to work in a multidisciplinary team in the health and wealth sector

Animals to ensure optimal team performance and effective results for the safety of society and field animals.

□ Preparing veterinarians capable of interacting in the workplace and solving urgent problems in the livestock sector.

□ Graduating doctors with high skills and knowledge in conducting scientific research in various specialized fields.

□ Encouraging faculty members, staff, and students to enhance their technical skills and benefit from modern technologies in transferring knowledge, producing scientific research, and creating curricula for educational programs.

□ Implementing a development program for faculty and staff.



#### 4. Program accreditation

The application process has begun

#### 5. Other external influences

Veterinary hospital, library, Internet, community, Doctors Syndicate

#### 6. Program structure

Program structure	percentage	Credit hours	Number of Courses	Reviews
	%100		9	Institution Requirements
	%100		9	College Requirements
	%100		9	Department Requirements
				Summer Training
	.....	.....	.....	Other

\*Notes may include whether the course is basic or elective.

#### 7. Program description

Credit hours		Name of the course or course	Course or course code	Year/level
practical	theoretical			
30hours		Veterinary application		the third
120 hours 60 hours	90 hours 90 hours 30 hours 15 hours 30 hours	Internal medicine Infectious diseases Clinic Pathological diagnoses Epidemiological zoonotic diseases		the fourth
120 hours	90 hours 15 hours	Internal medicine Clinic Research methods		Fifth

8. Expected learning outcomes of the program
<b>Knowledge</b>
<p>1.Learning Outcomes 1 Study of various internal diseases, especially common ones or emergency cases that the veterinarian may face.</p> <p>-2Identifying medical conditions and methods of treating them.</p> <p>-3Understanding the veterinary pathological interactions between internal diseases and diseases in other branches</p> <p>-4Knowing ways to prevent some diseases</p>

-5Identifying the legal responsibilities for some diseases, especially transmissible ones

Statement of learning outcomes

### Skills

-1Take an accurate medical history, especially for infectious diseases

-2The correct methods for measuring and reading clinical conditions

3-Clinical skills in examining animals

### Value

1- Developing expertise by dealing with transitional situations

2- Recognizing professional responsibility in dealing with communicable diseases

3-Using modern methods in treating medical conditions

## 9. Teaching and learning strategies

1.Theoretical lectures using illustrations (interactive whiteboard and data show(

2.Practical application of concepts studied in laboratories and the veterinary hospital.

3.Seminars (students are assigned a topic within the curriculum for presentation and discussion)

4.Solving scientific problems by discussing them within small groups to reach the correct solutions

5. In-person and electronic blended learning for student activities via the e-learning platform (Classroom)

## 10. Evaluation methods

1. Discussion within lectures
2. Mid-course exams and end-of-course exams
3. Continuous evaluation
4. Clinical groups
5. Practical exams

## 11. The teaching staff

### Faculty members

Preparing the teaching staff		Special requirements/skills (if any)		Specialization		Scientific rank
lecturer	Basic			private	general	
nothing	√			Internal and preventive medicine	Veterinary medicine and surgery	ا.م.د رعد محمود حسين
nothing	√			Internal and preventive medicine	Veterinary medicine and surgery	ا.م.د احمد حنش خلاف
nothing	√			Internal and preventive medicine	Veterinary medicine and surgery	ا.م.د طارق رفعت منت
nothing	√			Internal and preventive medicine	Veterinary medicine and surgery	ا.م. وليد ابراهيم جليل

nothing	√			Internal preventive medicine	Veterinary medicine and surgery	م.د روى عدنان
nothing	√			zoonotic diseases	Veterinary medicine and surgery	م.م ايات جاسم
experienced				Medicine and treatment	Veterinary medicine and surgery	ا.د نزار جبار مصلح

### Professional development

#### Orienting new faculty members

Guiding new faculty members through preparing courses and seminars in addition to meetings for college councils and councils Branches and through official notifications on the official website.

#### Professional development for faculty members

Continuing and permanent education through searching for developments in the library and scientific journals And the Internet, in addition to scientific seminars and seminars, and through practice in hospitals Veterinary.

## 12. Acceptance criterion

1. Central admission through the Ministry of Higher Education and Scientific Research, based on the sixth grade average, is done via an electronic form
2. Parallel acceptance channel

### **13. The most important sources of information about the program**

1. University website
2. The website of the Ministry of Higher Education and Scientific Research
- 3- The college library and the university's central library

### **14. Program development plan**

1. Developing academic curricula annually and updating them in line with developments in the diagnosis and treatment of diseases

Esotericism

2. Developing the scientific and administrative staff in the college based on annual evaluations and diagnosing areas of weakness

And strength

3. Developing senior leaders, faculty members, employees, and workers at the college

### Program skills chart

Learning outcomes required from the programme												Essential or optional	Course Name	Course Code	Year/level
values				skills				Knowledge							
4 <sub>ج</sub>	3 <sub>ج</sub>	2 <sub>ج</sub>	1 <sub>ج</sub>	4 <sub>ب</sub>	3 <sub>ب</sub>	2 <sub>ب</sub>	1 <sub>ب</sub>	4 <sub>ا</sub>	3 <sub>ا</sub>	2 <sub>ا</sub>	1 <sub>ا</sub>				
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	Veterinary application		the third
												Basic			
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	Internal medicine		the fourth
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	Infectious diseases		
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	Clinical pathology		

		✓				✓				✓		Basic	<b>Epidemiological</b>		<b>Fifth</b>
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	<b>Clinic</b>		
		✓				✓				✓		Basic	<b>Zoonotic diseases</b>		
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	<b>Internal medicine</b>		
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	<b>clinic</b>		
			✓				✓				✓	Basic	<b>Research of methods</b>		

•Please check the boxes corresponding to the individual learning outcomes from the program subject to evaluation



## Course description form

1. Course Name:	
Clinic	
2. Course Code:	
third year	
3. Semester / Year:	
2 <sup>nd</sup> semester 2023-2024	
4. Description Preparation Date:	
20	
5. Available Attendance Forms:	
Mandatory attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
90 hours	
7. Course administrator's name (mention all, if more than one name)	
الاسم: ا.م.د رعد محمود حسين      الايميل: raad.a@uodiyala.edu.iq	
8-Course Objective	
Course Objectives	<ul style="list-style-type: none"> <li>-1Identify internal diseases of field anim</li> <li>-2Diagnosis of diseases related to animal production (milk, meat(</li> <li>-3Identify diseases of the musculoskeletal system</li> <li>-4Identify diseases of the cardiovascular system</li> <li>-5Identify diseases of the urinary system</li> <li>-6Diseases resulting from poisoning</li> <li>7- Nutritional deficiency diseases</li> </ul>

## 9. Teaching and learning strategies

1- The method of delivery is accompanied by interrogation by directing questions to the students and involving them in the lecture.

-2Assigning the student to write reports related to the course topics.

-4Displaying pictures and films of surgical operations through the data show device.

5- Use of computers

## 10. Course structure

Evaluation method	Learning method	Unit or subject name	Required learning Outcomes	Hours	Week

## 11. Course evaluation

Daily exams

Reports preparation

Mid-course exam

final exam

## 12 .Learning and teaching resources

Veterinary Medicine

Required textbooks (methodology, if any(

<ul style="list-style-type: none"> <li>- Large animal internal medicine</li> <li>- Disease of dairy cattle</li> <li>- Bovine medicine</li> <li>Disease of small Ruminants</li> </ul>	Main references (sources(
<ul style="list-style-type: none"> <li>Veterinary medical journals -</li> <li>issued by Iraqi veterinary medical .colleges</li> <li>ab and international medical -</li> <li>journals</li> </ul>	Recommended supporting books and references (scientific journals, reports(....
<a href="http://www.iasj.net">http://www.iasj.net</a> Iraqi academic scien journals	Electronic references, Internet sites

### Course Structure: Internal Medicine/ third Stage/2<sup>nd</sup> Course

Evaluation method	Learning method	Unit or subject name	Required learning Outcomes	Hours	Week
<i>Exam</i>	practical	Case history	ا + ب + ج	3	1
<i>Exam</i>	practical	Animal body temprature	ا + ب + ج	3	2
<i>Exam</i>	practical	respiration	ا + ب + ج	3	3
<i>Exam</i>	practical	Examination skin.coat and horny structures	ا + ب + ج	3	4
<i>Exam</i>	practical	Examination lymph nodes	ا + ب + ج	3	5
<i>Exam</i>	practical	Examination digestive system	ا + ب + ج	3	6
<i>Exam</i>	practical	Examination cardiovascular system	ا + ب + ج + د	3	7
<i>Exam</i>	practical	Examination urinary system	ا + ب + ج + د	3	8
<i>Exam</i>	practical	Examination of the udder	ا + ب + ج + د	3	9

<i>Exam</i>	practical	Different routes drug administration	ا + ب + ج + د	3	10
<i>Exam</i>	practical	Allergic test	ا + ب + ج + د	3	11
<i>Exam</i>	practical	General examination	ا + ب + ج + د	3	12
<i>Exam</i>	practical	Routine clinic examination animale	ا + ب + ج + د	3	13
<i>Exam</i>	practical	Examination case history	ا + ب + ج + د	3	14
<i>Exam</i>	practical	Examination sensitivity test	ا + ب + ج + د	3	15

الاستاذ المساعد الدكتور

رعد محمود حسين

رئيس فرع الطب الباطني والوقائي

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## **Academic program description form**

University name: Diyala University

College/Institute: College of Veterinary Medicine

Scientific Department: Department of Internal Medicine

Name of the academic or professional program: Bachelor of Veterinary  
Medicine

Name of final degree: Bachelor of Veterinary Medicine and Surgery

Study system: semester/courses

Description preparation date: 2024

Date of filling the file: 9/1/2023

التوقيع :

اسم المعاون العلمي:

التاريخ :

التوقيع :

اسم رئيس القسم: رعد محمود  
حسين

التاريخ :

دقق الملف من قبل

شعبة ضمان الجودة والأداء الجامعي

اسم مدير شعبة ضمان الجودة والأداء الجامعي:

التاريخ

التوقيع

مصادقة

السيد العميد

#### 4. Program vision

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Disease cases, diagnosing the disease and providing treatment on scientific basis.

□ After graduation, our students will be able to work in a multidisciplinary team in the health and wealth sector

Animals to ensure optimal team performance and effective results for the safety of society and field animals.

□ Preparing veterinarians capable of interacting in the workplace and solving urgent problems in the livestock sector.

□ Graduating doctors with high skills and knowledge in conducting scientific research in various specialized fields.

□ Encouraging faculty members, staff, and students to enhance their technical skills and benefit from modern technologies in transferring knowledge, producing scientific research, and creating curricula for educational programs.

□ Implementing a development program for faculty and staff.



#### 4. Program accreditation

The application process has begun

#### 5. Other external influences

Veterinary hospital, library, Internet, community, Doctors Syndicate

#### 6. Program structure

Program structure	percentage	Credit hours	Number of Courses	Reviews
	%100		9	Institution Requirements
	%100		9	College Requirements
	%100		9	Department Requirements
				Summer Training
	.....	.....	.....	Other

\*Notes may include whether the course is basic or elective.

#### 7. Program description

Credit hours		Name of the course or course	Course or course code	Year/level
practical	theoretical			
30hours		Veterinary application		the third
120 hours 60 hours	90 hours 90 hours 30 hours 15 hours 30 hours	Internal medicine Infectious diseases Clinic Pathological diagnoses Epidemiological zoonotic diseases		the fourth
120 hours	90 hours 15 hours	Internal medicine Clinic Research methods		Fifth

8. Expected learning outcomes of the program
<b>Knowledge</b>
<p>1.Learning Outcomes 1 Study of various internal diseases, especially common ones or emergency cases that the veterinarian may face.</p> <p>-2Identifying medical conditions and methods of treating them.</p> <p>-3Understanding the veterinary pathological interactions between internal diseases and diseases in other branches</p> <p>-4Knowing ways to prevent some diseases</p>

-5Identifying the legal responsibilities for some diseases, especially transmissible ones

Statement of learning outcomes

### Skills

-1Take an accurate medical history, especially for infectious diseases

-2The correct methods for measuring and reading clinical conditions

3-Clinical skills in examining animals

### Value

1- Developing expertise by dealing with transitional situations

2- Recognizing professional responsibility in dealing with communicable diseases

3-Using modern methods in treating medical conditions

## 9. Teaching and learning strategies

1.Theoretical lectures using illustrations (interactive whiteboard and data show(

2.Practical application of concepts studied in laboratories and the veterinary hospital.

3.Seminars (students are assigned a topic within the curriculum for presentation and discussion)

4.Solving scientific problems by discussing them within small groups to reach the correct solutions

5. In-person and electronic blended learning for student activities via the e-learning platform (Classroom)

## 10. Evaluation methods

1. Discussion within lectures
2. Mid-course exams and end-of-course exams
3. Continuous evaluation
4. Clinical groups
5. Practical exams

## 11. The teaching staff

### Faculty members

Preparing the teaching staff		Special requirements/skills (if any)		Specialization		Scientific rank
lecturer	Basic			private	general	
nothing	√			Internal and preventive medicine	Veterinary medicine and surgery	ا.م.د رعد محمود حسين
nothing	√			Internal and preventive medicine	Veterinary medicine and surgery	ا.م.د احمد حنش خلاف
nothing	√			Internal and preventive medicine	Veterinary medicine and surgery	ا.م.د طارق رفعت منت
nothing	√			Internal and preventive medicine	Veterinary medicine and surgery	ا.م. وليد ابراهيم جليل

nothing	√			Internal preventive medicine	Veterinary medicine and surgery	م.د روى عدنان
nothing	√			zoonotic diseases	Veterinary medicine and surgery	م.م ايات جاسم
experienced				Medicine treatment	Veterinary medicine and surgery	ا.د نزار جبار مصلح

### Professional development

#### Orienting new faculty members

Guiding new faculty members through preparing courses and seminars in addition to meetings for college councils and councils Branches and through official notifications on the official website.

#### Professional development for faculty members

Continuing and permanent education through searching for developments in the library and scientific journals And the Internet, in addition to scientific seminars and seminars, and through practice in hospitals Veterinary.

## 12. Acceptance criterion

1. Central admission through the Ministry of Higher Education and Scientific Research, based on the sixth grade average, is done via an electronic form
2. Parallel acceptance channel

### **13. The most important sources of information about the program**

1. University website
2. The website of the Ministry of Higher Education and Scientific Research
- 3- The college library and the university's central library

### **14. Program development plan**

1. Developing academic curricula annually and updating them in line with developments in the diagnosis and treatment of diseases

Esotericism

2. Developing the scientific and administrative staff in the college based on annual evaluations and diagnosing areas of weakness

And strength

3. Developing senior leaders, faculty members, employees, and workers at the college

### Program skills chart

Learning outcomes required from the programme												Essential or optional	Course Name	Course Code	Year/level
values				skills				Knowledge							
4 <sub>ج</sub>	3 <sub>ج</sub>	2 <sub>ج</sub>	1 <sub>ج</sub>	4 <sub>ب</sub>	3 <sub>ب</sub>	2 <sub>ب</sub>	1 <sub>ب</sub>	4 <sub>ا</sub>	3 <sub>ا</sub>	2 <sub>ا</sub>	1 <sub>ا</sub>				
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	Veterinary application		the third
												Basic			
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	Internal medicine		the fourth
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	Infectious diseases		
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	Clinical pathology		

		✓				✓				✓		Basic	<b>Epidemiological</b>		<b>Fifth</b>
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	<b>Clinic</b>		
		✓				✓				✓		Basic	<b>Zoonotic diseases</b>		
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	<b>Internal medicine</b>		
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	<b>clinic</b>		
			✓				✓				✓	Basic	<b>Research of methods</b>		

•Please check the boxes corresponding to the individual learning outcomes from the program subject to evaluation



## Course description form

1. Course Name:	
Clinic	
2. Course Code:	
Forth year	
3. Semester / Year:	
First and 2 <sup>nd</sup> semester 2023-2024	
4. Description Preparation Date:	
20	
5. Available Attendance Forms:	
Mandatory attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
90 hours	
7. Course administrator's name (mention all, if more than one name)	
الاسم: ا.م.د رعد محمود حسين      الايميل: raad.a@uodiyala.edu.iq	
8-Course Objective	
Course Objectives	<ul style="list-style-type: none"> <li>-1Identify internal diseases of field anim</li> <li>-2Diagnosis of diseases related to animal production (milk, meat(</li> <li>-3Identify diseases of the musculoskeletal system</li> <li>-4Identify diseases of the cardiovascular system</li> <li>-5Identify diseases of the urinary system</li> <li>-6Diseases resulting from poisoning</li> <li>7- Nutritional deficiency diseases</li> </ul>

## 9. Teaching and learning strategies

1- The method of delivery is accompanied by interrogation by directing questions to the students and involving them in the lecture.

-2Assigning the student to write reports related to the course topics.

-4Displaying pictures and films of surgical operations through the data show device.

5- Use of computers

## 10. Course structure

Evaluation method	Learning method	Unit or subject name	Required learning Outcomes	Hours	Week

## 11. Course evaluation

Daily exams

Reports preparation

Mid-course exam

final exam

## 12 .Learning and teaching resources

Veterinary Medicine

Required textbooks (methodology, if any(

<ul style="list-style-type: none"> <li>- Large animal internal medicine</li> <li>- Disease of dairy cattle</li> <li>- Bovine medicine</li> <li>Disease of small Ruminants</li> </ul>	Main references (sources(
<ul style="list-style-type: none"> <li>Veterinary medical journals -</li> <li>issued by Iraqi veterinary medical .colleges</li> <li>ab and international medical -</li> <li>journals</li> </ul>	Recommended supporting books and references (scientific journals, reports(....
<a href="http://www.iasj.net">http://www.iasj.net</a> Iraqi academic scien journals	Electronic references, Internet sites

### Course Structure: Internal Medicine/Fourh Stage/First Course

Evaluation method	Learning method	Unit or subject name	Required learning Outcomes	Hours	Week
<i>Exam</i>	practical	Introductions	ا + ب + ج	9	1
<i>Exam</i>	practical	Milk fever	ا + ب + ج	9	2
<i>Exam</i>	practical	Milk fever, Downer cow syndrom	ا + ب + ج	9	3
<i>Exam</i>	practical	Diseases caused by nutritional deficiencies: Introduction _ received medical cases on veterinary clinic	ا + ب + ج	9	4
<i>Exam</i>	practical	Downer cow syndrom	ا + ب + ج	9	5
<i>Exam</i>	practical	Hypomagnesemia tetany	ا + ب + ج	9	6
<i>Exam</i>	practical	Pregnancy toxemia, Azoturia	ا + ب + ج + د	9	7
<i>Exam</i>	practical	Iodine deficiency Zinc deficiency, _received	ا + ب + ج + د	9	8

		medical cases on veterinary clinic			
<i>Exam</i>	practical	Ketosis	ا + ب + ج + د	9	9
<i>Exam</i>	practical	Postparturient hemoglobinuria	ا + ب + ج + د	9	10
<i>Exam</i>	practical	Vitamin A deficiency	ا + ب + ج + د	9	11
<i>Exam</i>	practical	Vitamin E and selenium deficiency _received medical cases on veterinary clinic	ا + ب + ج + د	9	12
<i>Exam</i>	practical	Vitamin D deficiency	ا + ب + ج + د	9	13
<i>Exam</i>	practical	Copper deficiency	ا + ب + ج + د	9	14
<i>Exam</i>	practical	Deficiency of calcium, magnesium and phosphorus, Deficiency of vitamin C and manganese, Deficiency of thiamin, B12, riboflavin and choline _received medical cases on veterinary clinic	ا + ب + ج + د	9	15

**Course Structure: Internal Medicine/Fifth Stage/Second Course**

<i>Exam</i>	practical	Diseases of cardiovascular system	ا + ب + ج + د	9	1
<i>Exam</i>	practical	Diseases of cardiovascular system	ا + ب + ج + د	9	2
<i>Exam</i>	practical	Diseases of cardiovascular system	ا + ب + ج + د	9	3
<i>Exam</i>	practical	Diseases of cardiovascular	ا + ب + ج + د	9	4

		system _received medical cases on veterinary clinic			
<i>Exam</i>	practical	Diseases of cardiovascular system	ا + ب + ج + د	9	5
<i>Exam</i>	practical	Diseases of urinary system	ا + ب + ج + د	9	6
<i>Exam</i>	practical	Diseases of urinary system	ا + ب + ج + د	9	7
<i>Exam</i>	practical	Diseases of urinary system _received medical cases on veterinary clinic	ا + ب + ج + د	9	8
<i>Exam</i>	practical	Diseases of musculoskeletal system	ا + ب + ج + د	9	9
<i>Exam</i>	practical	Diseases of musculoskeletal system	ا + ب + ج + د	9	10
<i>Exam</i>	practical	Diseases of musculoskeletal system	ا + ب + ج + د	9	11
<i>Exam</i>	practical	Diseases of musculoskeletal system, Diseases caused by poisonous materials _received medical cases on veterinary clinic	ا + ب + ج + د	9	12
<i>Exam</i>	practical	Diseases caused by poisonous materials	ا + ب + ج + د	9	13
<i>Exam</i>	practical	Diseases caused by poisonous materials	ا + ب + ج + د	9	14
<i>Exam</i>	practical	Diseases caused by poisonous materials _received	ا + ب + ج + د	9	15

		medical cases on veterinary clinic			
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الاستاذ المساعد الدكتور  
رعد محمود حسين  
رئيس فرع الطب الباطني والوقائي

**Concepts and terminology:**

Description of the academic program: The description of the academic program provides a brief summary of its vision, mission, and objectives, including an accurate description of the targeted learning outcomes according to specific learning strategies.

Course Description: Provides a necessary summary of the most important characteristics of the course and the learning outcomes that the student is expected to achieve, demonstrating whether he or she has made the most of the available learning opportunities. It is derived from the program description.

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The program's mission: It briefly explains the goals and activities necessary to achieve them, and also defines the program's development paths and directions.

Program objectives: These are statements that describe what the academic program intends to achieve within a specific period of time and are measurable and observable.

Curriculum structure: All courses/study subjects included in the academic program according to the approved learning system (semester, annual, Bologna track), whether it is a requirement (ministry, university, college, or scientific department), along with the number of study units.

Learning outcomes: A consistent set of knowledge, skills, and values that the student has acquired after the successful completion of the academic program. The learning outcomes for each course must be determined in a way that achieves the program objectives.

Teaching and learning strategies: They are the strategies used by the faculty member to develop the student's teaching and learning, and they are plans that are followed to reach the learning goals. That is, it describes all curricular and extracurricular activities to achieve the learning outcomes of the programme.

## **Academic program description form**

University name: Diyala University

College/Institute: College of Veterinary Medicine

Scientific Department: Department of Internal Medicine

Name of the academic or professional program: Bachelor of Veterinary  
Medicine

Name of final degree: Bachelor of Veterinary Medicine and Surgery

Study system: semester/courses

Description preparation date: 2024

Date of filling the file: 9/1/2023



التوقيع :

اسم المعاون العلمي:

التاريخ :

التوقيع :

اسم رئيس القسم: رعد محمود  
حسين

التاريخ :

دقق الملف من قبل

شعبة ضمان الجودة والأداء الجامعي

اسم مدير شعبة ضمان الجودة والأداء الجامعي:

التاريخ

التوقيع

مصادقة

السيد العميد

## 5. Program vision

After graduation our students will be able to work in a multidisciplinary team in the veterinary health sector.

To ensure optimal team performance and effective results in treating medical cases.

## 2. Program message

Our college seeks to obtain international accreditation and rise to the global level in terms of quality of outputs and graduation highly qualified veterinarians in caring for field and pet animals, and serving the community.

### **3. objectives of the program**

□ Achieving quality standards based on scientific institutional quality standards.

□ Graduating veterinarians with a bachelor's degree in veterinary medicine and surgery, who are able to conduct and examine

Disease cases, diagnosing the disease and providing treatment on scientific basis.

□ After graduation, our students will be able to work in a multidisciplinary team in the health and wealth sector

Animals to ensure optimal team performance and effective results for the safety of society and field animals.

□ Preparing veterinarians capable of interacting in the workplace and solving urgent problems in the livestock sector.

□ Graduating doctors with high skills and knowledge in conducting scientific research in various specialized fields.

□ Encouraging faculty members, staff, and students to enhance their technical skills and benefit from modern technologies in transferring knowledge, producing scientific research, and creating curricula for educational programs.

□ Implementing a development program for faculty and staff.

#### 4. Program accreditation

The application process has begun

#### 5. Other external influences

Veterinary hospital, library, Internet, community, Doctors Syndicate

#### 6. Program structure

Program structure	percentage	Credit hours	Number of Courses	Reviews
	%100		9	Institution Requirements
	%100		9	College Requirements
	%100		9	Department Requirements
				Summer Training
	.....	.....	.....	Other

\*Notes may include whether the course is basic or elective.

#### 7. Program description

Credit hours		Name of the course or course	Course or course code	Year/level
practical	theoretical			
30hours		Veterinary application		the third
120 hours 60 hours	90 hours 90 hours 30 hours 15 hours 30 hours	Internal medicine Infectious diseases Clinic Pathological diagnoses Epidemiological zoonotic diseases		the fourth
120 hours	90 hours 15 hours	Internal medicine Clinic Research methods		Fifth

8. Expected learning outcomes of the program
<b>Knowledge</b>
<p>1.Learning Outcomes 1 Study of various internal diseases, especially common ones or emergency cases that the veterinarian may face.</p> <p>-2Identifying medical conditions and methods of treating them.</p> <p>-3Understanding the veterinary pathological interactions between internal diseases and diseases in other branches</p> <p>-4Knowing ways to prevent some diseases</p>

-5Identifying the legal responsibilities for some diseases, especially transmissible ones

Statement of learning outcomes

### Skills

-1Take an accurate medical history, especially for infectious diseases

-2The correct methods for measuring and reading clinical conditions

3-Clinical skills in examining animals

### Value

1- Developing expertise by dealing with transitional situations

2- Recognizing professional responsibility in dealing with communicable diseases

3-Using modern methods in treating medical conditions

## 9. Teaching and learning strategies

1.Theoretical lectures using illustrations (interactive whiteboard and data show(

2.Practical application of concepts studied in laboratories and the veterinary hospital.

3.Seminars (students are assigned a topic within the curriculum for presentation and discussion)

4.Solving scientific problems by discussing them within small groups to reach the correct solutions

5. In-person and electronic blended learning for student activities via the e-learning platform (Classroom)

## 10. Evaluation methods

1. Discussion within lectures
2. Mid-course exams and end-of-course exams
3. Continuous evaluation
4. Clinical groups
5. Practical exams

## 11. The teaching staff

### Faculty members

Preparing the teaching staff		Special requirements/skills (if any)		Specialization		Scientific rank
lecturer	Basic			private	general	
nothing	√			Internal and preventive medicine	Veterinary medicine and surgery	ا.م.د رعد محمود حسين
nothing	√			Internal and preventive medicine	Veterinary medicine and surgery	ا.م.د احمد حنش خلاف
nothing	√			Internal and preventive medicine	Veterinary medicine and surgery	ا.م.د طارق رفعت منت
nothing	√			Internal and preventive medicine	Veterinary medicine and surgery	ا.م. وليد ابراهيم جليل

nothing	√			Internal preventive medicine	Veterinary medicine and surgery	م.د روى عدنان
nothing	√			zoonotic diseases	Veterinary medicine and surgery	م.م ايات جاسم
experienced				Medicine treatment	Veterinary medicine and surgery	ا.د نزار جبار مصلح

### Professional development

#### Orienting new faculty members

Guiding new faculty members through preparing courses and seminars in addition to meetings for college councils and councils Branches and through official notifications on the official website.

#### Professional development for faculty members

Continuing and permanent education through searching for developments in the library and scientific journals And the Internet, in addition to scientific seminars and seminars, and through practice in hospitals Veterinary.

## 12. Acceptance criterion

1. Central admission through the Ministry of Higher Education and Scientific Research, based on the sixth grade average, is done via an electronic form
2. Parallel acceptance channel

### **13. The most important sources of information about the program**

1. University website
2. The website of the Ministry of Higher Education and Scientific Research
- 3- The college library and the university's central library

### **14. Program development plan**

1. Developing academic curricula annually and updating them in line with developments in the diagnosis and treatment of diseases

Esotericism

2. Developing the scientific and administrative staff in the college based on annual evaluations and diagnosing areas of weakness

And strength

3. Developing senior leaders, faculty members, employees, and workers at the college



### Program skills chart

Learning outcomes required from the programme												Essential or optional	Course Name	Course Code	Year/level
values				skills				Knowledge							
4 <sub>ج</sub>	3 <sub>ج</sub>	2 <sub>ج</sub>	1 <sub>ج</sub>	4 <sub>ب</sub>	3 <sub>ب</sub>	2 <sub>ب</sub>	1 <sub>ب</sub>	4 <sub>ا</sub>	3 <sub>ا</sub>	2 <sub>ا</sub>	1 <sub>ا</sub>				
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	Veterinary application		the third
												Basic			
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	Internal medicine		the fourth
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	Infectious diseases		
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	Clinical pathology		

		✓				✓				✓		Basic	<b>Epidemiological</b>		<b>Fifth</b>
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	<b>Clinic</b>		
		✓				✓				✓		Basic	<b>Zoonotic diseases</b>		
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	<b>Internal medicine</b>		
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	<b>clinic</b>		
			✓				✓				✓	Basic	<b>Research of methods</b>		

•Please check the boxes corresponding to the individual learning outcomes from the program subject to evaluation

## Course description form

1. Course Name:	
Clinic	
2. Course Code:	
Fifth year	
3. Semester / Year:	
First and 2 <sup>nd</sup> semester 2023-2024	
4. Description Preparation Date:	
20	
5. Available Attendance Forms:	
Mandatory attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
90 hours	
7. Course administrator's name (mention all, if more than one name)	
الاسم: ا.م.د. احمد خنش خلاف      الايميل: ahmed.h@uodiyala.edu.iq	
8-Course Objective	
Course Objectives	<ul style="list-style-type: none"> <li>-1Identify internal diseases of field anim</li> <li>-2Diagnosis of diseases related to animal production (milk, meat(</li> <li>-3Identify diseases of the musculoskeletal system</li> <li>-4Identify diseases of the cardiovascular system</li> <li>-5Identify diseases of the urinary system</li> <li>-6Diseases resulting from poisoning</li> <li>7- Nutritional deficiency diseases</li> </ul>

## 9. Teaching and learning strategies

1- The method of delivery is accompanied by interrogation by directing questions to the students and involving them in the lecture.

-2Assigning the student to write reports related to the course topics.

-4Displaying pictures and films of surgical operations through the data show device.

5- Use of computers

## 10. Course structure

Evaluation method	Learning method	Unit or subject name	Required learning Outcomes	Hours	Week

## 11. Course evaluation

Daily exams

Reports preparation

Mid-course exam

final exam

## 12 .Learning and teaching resources

Veterinary Medicine

Required textbooks (methodology, if any(

<ul style="list-style-type: none"> <li>- Large animal internal medicine</li> <li>- Disease of dairy cattle</li> <li>- Bovine medicine</li> <li>Disease of small Ruminants</li> </ul>	Main references (sources(
<ul style="list-style-type: none"> <li>Veterinary medical journals -</li> <li>issued by Iraqi veterinary medical .colleges</li> <li>ab and international medical -</li> <li>journals</li> </ul>	Recommended supporting books and references (scientific journals, reports(....
<a href="http://www.iasj.net">http://www.iasj.net</a> Iraqi academic scien journals	Electronic references, Internet sites

### Course Structure: Internal Medicine/Fifth Stage/First Course

Evaluation method	Learning method	Unit or subject name	Required learning Outcomes	Hours	Week
<i>Exam</i>	practical	Introductions	ا + ب + ج	9	1
<i>Exam</i>	practical	Milk fever	ا + ب + ج	9	2
<i>Exam</i>	practical	Milk fever, Downer cow syndrom	ا + ب + ج	9	3
<i>Exam</i>	practical	Diseases caused by nutritional deficiencies: Introduction _ received medical cases on veterinary clinic	ا + ب + ج	9	4
<i>Exam</i>	practical	Downer cow syndrom	ا + ب + ج	9	5
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<i>Exam</i>	practical	Iodine deficiency Zinc deficiency, _received	ا + ب + ج + د	9	8

		medical cases on veterinary clinic			
<i>Exam</i>	practical	Ketosis	ا + ب + ج + د	9	9
<i>Exam</i>	practical	Postparturient hemoglobinuria	ا + ب + ج + د	9	10
<i>Exam</i>	practical	Vitamin A deficiency	ا + ب + ج + د	9	11
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<i>Exam</i>	practical	Vitamin D deficiency	ا + ب + ج + د	9	13
<i>Exam</i>	practical	Copper deficiency	ا + ب + ج + د	9	14
<i>Exam</i>	practical	Deficiency of calcium, magnesium and phosphorus, Deficiency of vitamin C and manganese, Deficiency of thiamin, B12, riboflavin and choline _received medical cases on veterinary clinic	ا + ب + ج + د	9	15

**Course Structure: Internal Medicine/Fifth Stage/Second Course**

<i>Exam</i>	practical	Diseases of cardiovascular system	ا + ب + ج + د	9	1
<i>Exam</i>	practical	Diseases of cardiovascular system	ا + ب + ج + د	9	2
<i>Exam</i>	practical	Diseases of cardiovascular system	ا + ب + ج + د	9	3
<i>Exam</i>	practical	Diseases of cardiovascular	ا + ب + ج + د	9	4

		system _received medical cases on veterinary clinic			
<i>Exam</i>	practical	Diseases of cardiovascular system	ا + ب + ج + د	9	5
<i>Exam</i>	practical	Diseases of urinary system	ا + ب + ج + د	9	6
<i>Exam</i>	practical	Diseases of urinary system	ا + ب + ج + د	9	7
<i>Exam</i>	practical	Diseases of urinary system _received medical cases on veterinary clinic	ا + ب + ج + د	9	8
<i>Exam</i>	practical	Diseases of musculoskeletal system	ا + ب + ج + د	9	9
<i>Exam</i>	practical	Diseases of musculoskeletal system	ا + ب + ج + د	9	10
<i>Exam</i>	practical	Diseases of musculoskeletal system	ا + ب + ج + د	9	11
<i>Exam</i>	practical	Diseases of musculoskeletal system, Diseases caused by poisonous materials _received medical cases on veterinary clinic	ا + ب + ج + د	9	12
<i>Exam</i>	practical	Diseases caused by poisonous materials	ا + ب + ج + د	9	13
<i>Exam</i>	practical	Diseases caused by poisonous materials	ا + ب + ج + د	9	14
<i>Exam</i>	practical	Diseases caused by poisonous materials _received	ا + ب + ج + د	9	15

		medical cases on veterinary clinic			
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الاستاذ المساعد الدكتور  
احمد خنش خلاف  
مقرر فرع الطب الباطني والوقائي

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Description of the academic program: The description of the academic program provides a brief summary of its vision, mission, and objectives, including an accurate description of the targeted learning outcomes according to specific learning strategies.

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Program objectives: These are statements that describe what the academic program intends to achieve within a specific period of time and are measurable and observable.

Curriculum structure: All courses/study subjects included in the academic program according to the approved learning system (semester, annual, Bologna track), whether it is a requirement (ministry, university, college, or scientific department), along with the number of study units.

Learning outcomes: A consistent set of knowledge, skills, and values that the student has acquired after the successful completion of the academic program. The learning outcomes for each course must be determined in a way that achieves the program objectives.

Teaching and learning strategies: They are the strategies used by the faculty member to develop the student's teaching and learning, and they are plans that are followed to reach the learning goals. That is, it describes all curricular and extracurricular activities to achieve the learning outcomes of the programme.

## **Academic program description form**

University name: Diyala University

College/Institute: College of Veterinary Medicine

Scientific Department: Department of Internal Medicine

Name of the academic or professional program: Bachelor of Veterinary  
Medicine

Name of final degree: Bachelor of Veterinary Medicine and Surgery

Study system: semester/courses

Description preparation date: 2024

Date of filling the file: 9/1/2023

التوقيع :

اسم المعاون العلمي:

التاريخ :

التوقيع :

اسم رئيس القسم: رعد محمود  
حسين

التاريخ :

دقق الملف من قبل

شعبة ضمان الجودة والأداء الجامعي

اسم مدير شعبة ضمان الجودة والأداء الجامعي:

التاريخ

التوقيع

مصادقة

السيد العميد

## 6. Program vision

After graduation our students will be able to work in a multidisciplinary team in the veterinary health sector.

To ensure optimal team performance and effective results in treating medical cases.

## 2. Program message

Our college seeks to obtain international accreditation and rise to the global level in terms of quality of outputs and graduation highly qualified veterinarians in caring for field and pet animals, and serving the community.

### **3. objectives of the program**

□ Achieving quality standards based on scientific institutional quality standards.

□ Graduating veterinarians with a bachelor's degree in veterinary medicine and surgery, who are able to conduct and examine

Disease cases, diagnosing the disease and providing treatment on scientific basis.

□ After graduation, our students will be able to work in a multidisciplinary team in the health and wealth sector

Animals to ensure optimal team performance and effective results for the safety of society and field animals.

□ Preparing veterinarians capable of interacting in the workplace and solving urgent problems in the livestock sector.

□ Graduating doctors with high skills and knowledge in conducting scientific research in various specialized fields.

□ Encouraging faculty members, staff, and students to enhance their technical skills and benefit from modern technologies in transferring knowledge, producing scientific research, and creating curricula for educational programs.

□ Implementing a development program for faculty and staff.

#### 4. Program accreditation

The application process has begun

#### 5. Other external influences

Veterinary hospital, library, Internet, community, Doctors Syndicate

#### 6. Program structure

Program structure	percentage	Credit hours	Number of Courses	Reviews
	%100		9	Institution Requirements
	%100		9	College Requirements
	%100		9	Department Requirements
				Summer Training
	.....	.....	.....	Other

\*Notes may include whether the course is basic or elective.

#### 7. Program description

Credit hours		Name of the course or course	Course or course code	Year/level
practical	theoretical			
30hours		Veterinary application		the third
120 hours 60 hours	90 hours 90 hours 30 hours 15 hours 30 hours	Internal medicine Infectious diseases Clinic Pathological diagnoses Epidemiological zoonotic diseases		the fourth
120 hours	90 hours 15 hours	Internal medicine Clinic Research methods		Fifth

8. Expected learning outcomes of the program
<b>Knowledge</b>
<p>1.Learning Outcomes 1 Study of various internal diseases, especially common ones or emergency cases that the veterinarian may face.</p> <p>-2Identifying medical conditions and methods of treating them.</p> <p>-3Understanding the veterinary pathological interactions between internal diseases and diseases in other branches</p> <p>-4Knowing ways to prevent some diseases</p>

-5Identifying the legal responsibilities for some diseases, especially transmissible ones

Statement of learning outcomes

### Skills

-1Take an accurate medical history, especially for infectious diseases

-2The correct methods for measuring and reading clinical conditions

3-Clinical skills in examining animals

### Value

1- Developing expertise by dealing with transitional situations

2- Recognizing professional responsibility in dealing with communicable diseases

3-Using modern methods in treating medical conditions

## 9. Teaching and learning strategies

1.Theoretical lectures using illustrations (interactive whiteboard and data show(

2.Practical application of concepts studied in laboratories and the veterinary hospital.

3.Seminars (students are assigned a topic within the curriculum for presentation and discussion)

4.Solving scientific problems by discussing them within small groups to reach the correct solutions

5. In-person and electronic blended learning for student activities via the e-learning platform (Classroom)

## 10. Evaluation methods

1. Discussion within lectures
2. Mid-course exams and end-of-course exams
3. Continuous evaluation
4. Clinical groups
5. Practical exams

## 11. The teaching staff

### Faculty members

Preparing the teaching staff		Special requirements/skills (if any)		Specialization		Scientific rank
lecturer	Basic			private	general	
nothing	√			Internal and preventive medicine	Veterinary medicine and surgery	ا.م.د رعد محمود حسين
nothing	√			Internal and preventive medicine	Veterinary medicine and surgery	ا.م.د احمد حنش خلاف
nothing	√			Internal and preventive medicine	Veterinary medicine and surgery	ا.م.د طارق رفعت منت
nothing	√			Internal and preventive medicine	Veterinary medicine and surgery	ا.م. وليد ابراهيم جليل



nothing	√			Internal preventive medicine	Veterinary medicine and surgery	م.د روى عدنان
nothing	√			zoonotic diseases	Veterinary medicine and surgery	م.م ايات جاسم
experienced				Medicine treatment	Veterinary medicine and surgery	ا.د نزار جبار مصلح

### Professional development

#### Orienting new faculty members

Guiding new faculty members through preparing courses and seminars in addition to meetings for college councils and councils Branches and through official notifications on the official website.

#### Professional development for faculty members

Continuing and permanent education through searching for developments in the library and scientific journals And the Internet, in addition to scientific seminars and seminars, and through practice in hospitals Veterinary.

## 12. Acceptance criterion

1. Central admission through the Ministry of Higher Education and Scientific Research, based on the sixth grade average, is done via an electronic form
2. Parallel acceptance channel

### **13. The most important sources of information about the program**

1. University website
2. The website of the Ministry of Higher Education and Scientific Research
- 3- The college library and the university's central library

### **14. Program development plan**

1. Developing academic curricula annually and updating them in line with developments in the diagnosis and treatment of diseases

Esotericism

2. Developing the scientific and administrative staff in the college based on annual evaluations and diagnosing areas of weakness

And strength

3. Developing senior leaders, faculty members, employees, and workers at the college

### Program skills chart

Learning outcomes required from the programme												Essential or optional	Course Name	Course Code	Year/level
values				skills				Knowledge							
4 <sub>ج</sub>	3 <sub>ج</sub>	2 <sub>ج</sub>	1 <sub>ج</sub>	4 <sub>ب</sub>	3 <sub>ب</sub>	2 <sub>ب</sub>	1 <sub>ب</sub>	4 <sub>ا</sub>	3 <sub>ا</sub>	2 <sub>ا</sub>	1 <sub>ا</sub>				
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	Veterinary application		the third
												Basic			
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	Internal medicine		the fourth
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	Infectious diseases		
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	Clinical pathology		

		✓				✓				✓		Basic	<b>Epidemiological</b>		<b>Fifth</b>
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	<b>Clinic</b>		
		✓				✓				✓		Basic	<b>Zoonotic diseases</b>		
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	<b>Internal medicine</b>		
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	<b>clinic</b>		
			✓				✓				✓	Basic	<b>Research of methods</b>		

•Please check the boxes corresponding to the individual learning outcomes from the program subject to evaluation

## Course description form

1. Course Name:	
Infectious disease	
2. Course Code:	
Forth year	
3. Semester / Year:	
First and 2 <sup>nd</sup> semester 2023-2024	
4. Description Preparation Date:	
2024	
5. Available Attendance Forms:	
Mandatory attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
90 hours	
7. Course administrator's name (mention all, if more than one name)	
الاميل: roaa.a@uodiyala.edu.iq م.د: رؤى عدنان حسين	
8-Course Objective	
Course Objectives	<ul style="list-style-type: none"> <li>-1Identify internal diseases of field animals</li> <li>-2Diagnosis of diseases related to animal production (milk, meat)</li> <li>-3Identify diseases of the musculoskeletal system</li> <li>-4Identify diseases of the cardiovascular system</li> <li>-5Identify diseases of the urinary system</li> <li>-6Diseases resulting from poisoning</li> <li>7- Nutritional deficiency diseases</li> </ul>

## 9. Teaching and learning strategies

1- The method of delivery is accompanied by interrogation by directing questions to the students and involving them in the lecture.

-2Assigning the student to write reports related to the course topics.

-4Displaying pictures and films of surgical operations through the data show device.

5- Use of computers

## 10. Course structure

Evaluation method	Learning method	Unit or subject name	Required learning Outcomes	Hours	Week

## 11. Course evaluation

Daily exams

Reports preparation

Mid-course exam

final exam

## 12 .Learning and teaching resources

Veterinary Medicine

Required textbooks (methodology, if any(

- Infectious Disease

Main references (sources(

- Bradford smith disease - Radostitis disease - internal & breventive medicine	
Veterinary medical journals - issued by Iraqi veterinary medical .colleges ab and international medical - journals	Recommended supporting books and references (scientific journals, reports(....
<a href="http://www.iasj.net">http://www.iasj.net</a> Iraqi academic scien journals	Electronic references, Internet sites

### Course Structure: Internal Medicine/Fifth Stage/First Course

Evaluation method	Learning method	Unit or subject name	Required learning Outcomes	Hours	Week
<i>Exam</i>	Theoretical	Introductions	ا + ب + ج	2	1
<i>Exam</i>	Theoretical	Closteridal disease	ا + ب + ج	2	2
<i>Exam</i>	Theoretical	Sudden death disease	ا + ب + ج	2	3
<i>Exam</i>	Theoretical	Brucellosis	ا + ب + ج	2	4
<i>Exam</i>	Theoretical	Campylobacteriosis	ا + ب + ج	2	5
<i>Exam</i>	Theoretical	brocellosis	ا + ب + ج	2	6
<i>Exam</i>	Theoretical	Johnes disease	ا + ب + ج + د	2	7
<i>Exam</i>	Theoretical	Actinobacillosis	ا + ب + ج + د	2	8
<i>Exam</i>	Theoretical	leptospirosis	ا + ب + ج + د	2	9
<i>Exam</i>	Theoretical	colibacillosis	ا + ب + ج + د	2	10
<i>Exam</i>	Theoretical	salmonellosis	ا + ب + ج + د	2	11
<i>Exam</i>	Theoretical	Caseous lymphadenitis	ا + ب + ج + د	2	12
<i>Exam</i>	Theoretical	Sporotrichosis	ا + ب + ج + د	2	13

<i>Exam</i>	Theoretical	Epizootic lymphangitis	ا + ب + ج + د	2	14
<i>Exam</i>	Theoretical	Campylobacteriosis	ا + ب + ج + د	2	15
<b>Course Structure: Internal Medicine/Fifth Stage/Second Course</b>					
<i>Exam</i>	Theoretical	Rinderpest	ا + ب + ج + د	3	1
<i>Exam</i>	Theoretical	Malignant catarrhal fever	ا + ب + ج + د	3	2
<i>Exam</i>	Theoretical	Infectious Bovine Rhinotracheitis	ا + ب + ج + د	3	3
<i>Exam</i>	Theoretical	Foot & mouth disease	ا + ب + ج + د	3	4
<i>Exam</i>	Theoretical	Bovine viral diarrhea	ا + ب + ج + د	3	5
<i>Exam</i>	Theoretical	Equine infectious anemia	ا + ب + ج + د	3	6
<i>Exam</i>	Theoretical	EQUINE ENCEPHALOMYELITIS	ا + ب + ج + د	3	7
<i>Exam</i>	Theoretical	EQUINE VIRAL RHINOPHEUMONITIS	ا + ب + ج + د	3	8
<i>Exam</i>	Theoretical	Equine Viral Arteritis	ا + ب + ج + د	3	9
<i>Exam</i>	Theoretical	Equine influenza	ا + ب + ج + د	3	10
<i>Exam</i>	Theoretical	African Horse Sickness	ا + ب + ج + د	3	11
<i>Exam</i>	Theoretical	Rabies	ا + ب + ج + د	3	12
<i>Exam</i>	Theoretical	Joiner disease	ا + ب + ج + د	3	13
<i>Exam</i>	Theoretical	Pseudorabies	ا + ب + ج + د	3	14
<i>Exam</i>	Theoretical	Orf, skin disease	ا + ب + ج + د	3	15



المدرس الدكتور  
رؤى عدنان حسين  
فرع الطب الباطني والوقائي

The academic program description is a short summary of the main features of the program and its courses. It shows what skills students are working to develop based on the program's goals. This description is very important because it is the main part of getting the program accredited, and it is written by the teaching staff together under the supervision of scientific committees in the scientific departments.

This guide, in its second version, includes a description of the academic program after updating the subjects and paragraphs of the previous guide in light of the updates and developments of the educational system in Iraq, which included the description of the academic program in its traditional form (annual, quarterly), as well as the adoption of the academic program description circulated according to the letter of the Department of Studies T 3/2906 on 3/5/2023 regarding the programs that adopt the Bologna Process as the basis for their work.

The educational program is a well-planned set of courses that include procedures and experiences arranged in the form of an academic syllabus. Its main goal is to improve and build graduates' skills so they are ready for the job market. The program is reviewed and evaluated every year through internal or external audit procedures and programs like the External

In this regard, we can only emphasize the importance of writing an academic programs and course description to ensure the proper functioning of the educational process.

## **Concepts and terminology:**

**Academic Program Description:** The academic program description provides a brief summary of its vision, mission and objectives, including an accurate description of the targeted learning outcomes according to specific learning strategies.

**Course Description:** Provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the students to achieve, proving whether they have made the most of the available learning opportunities. It is derived from the program description.

**Program Vision:** An ambitious picture for the future of the academic program to be sophisticated, inspiring, stimulating, realistic and applicable.

**Program Mission:** Briefly outlines the objectives and activities necessary to achieve them and defines the program's development paths and directions.

**Program Objectives:** They are statements that describe what the academic program intends to achieve within a specific period of time and are measurable and observable.

**Curriculum Structure:** All courses / subjects included in the academic program according to the approved learning system (quarterly, annual, Bologna Process) whether it is a requirement (ministry, university, college and scientific department) with the number of credit hours.

**Learning Outcomes:** A compatible set of knowledge, skills and values acquired by students after the successful completion of the academic program and must determine the learning outcomes of each course in a way that achieves the objectives of the program.

**Teaching and learning strategies:** They are the strategies used by the faculty members to develop students' teaching and learning, and they are plans that are followed to reach the learning goals. They describe all classroom and extra-curricular activities to achieve the learning outcomes of the program.

# Academic Program Description Form

University Name: .Diyala .....

Faculty/Institute: .. College of Veterinary Medicine.....

Scientific Department: ..parasitology .....

Academic or Professional Program Name: ..... Final Certificate Name:  
.....

Academic System: ..... yearly

2024 Description Preparation Date:

2024/5/11 File Completion Date:

Signature:

Head of Department Name: Date:

Signature:

Scientific Associate Name: Date:

The file is checked by:

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department: Date:

Signature:

Approval of the Dean

---

## 1. Program Vision

**Excellence and creativity in the field of veterinary science in accordance with international standards and leadership in veterinary education and scientific research to ensure animal health and the development of livestock with a cleaner environment.**

## 2. Program Mission

## 3. Program Objectives

**Preparing graduates of veterinarians and scientific institutions specialized in veterinary medicine and surgery to contribute to protecting animals from diseases, diagnosing and treating their diseases, and preserving and developing livestock, as well as combating common diseases and environmental pollution.**

## 4. Program Accreditation

- 1- Identify the most important parasitic causes
- 2-Identifying the methods of transmission and infection of the parasitic cause
- 3- Identify the most important clinical signs
- 4-Learn about methods of diagnosing and treating medical conditions

## 5. Other external influences

No found

Veterinary hospital, library, Internet

6. Program Structure				
Program Structure	Number of	Credit hours	Percentage	Reviews*
	2	4	100	
College Requirements	2	4	100	

Department Requirements	2	4	100	
Summer Training		In the veterinary hospital		
Other				

## 9. Teaching and Learning Strategies

### 7. Program Description

Year/Level	Course Code	Course Name	Credit Hours	
			theoretical	practical
2024/third stage		Parasitology	45	30

### 8. Expected learning outcomes of the program

Knowledge/introducing students to the principles of parasitology

Learning Outcomes 1

Learning Outcomes Statement 1

#### Skills

1- The ability of the graduate to be a veterinarian qualified to diagnose various parasites  
2- To be familiar with the use of laboratory equipment in diagnosing parasites

#### Ethics

Gaining the ability to deal with and treat animals

Giving theoretical lectures

Special practical laboratories to gain skills

Practical and clinical application in health centers and hospitals

Weekly seminars and discussions

## 10. Evaluation methods

- 1- regulate oral and written tests, daily and monthly.
- 2- Student participation and interaction in the classroom.  
Performing assigned activities and duties





## 11. Faculty

### Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)	Number of the teaching	
	General	Special		Staff	Lecturer
Assistant Professor	Veterinary medicine and surgery	Physiology, parasitology		2	
Teacher	Veterinary medicine and surgery			2	
assistant teacher	Biology	Parasitology, microbiology		2	

### Professional Development

#### Mentoring new faculty members

#### Professional development of faculty members

## 12. Acceptance Criterion

Preparing seminars and introductory courses for new teachers, holding periodic meetings to introduce them to the work context and daily guidance, and giving ongoing advice and guidance.

Continuous learning through searching for new developments using the library and the Internet, in addition to attending seminars and discussions

Admission is centralized by the Ministry of Higher Education and Scientific Research, based on the student's average in middle school

- College library
- Central library at the university

### 13. The most important sources of information about the program

#### 14- Program development plan

Developing the scientific and administrative staff through annual evaluation that reveals strengths and weaknesses

Proposing strategies, plans and executive policies to ensure quality and reliability

Preparing comprehensive data and statistics about the college, its goals, departments, activities and future plans.

Developing guidelines for methods of applying quality and academic accreditation in order to achieve the best



Program Skills Outline															
				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
2023/2024		Parasitology	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

- Please tick the boxes corresponding to the individual program learning outcomes under evaluation.



## Course Description Form

1. Course Name:

Parasitology

2. Course Code:

3. Semester / Year:

2023/2024

4. Description Preparation Date:

11/5/2024

5. Available Attendance Forms:

Mandatory attendance

6. Number of Credit Hours (Total) / Number of Units (Total)

Theory 45 + practical 30 hours / number of units 4

7. Course administrator's name (mention all, if more than one name)

Name:

haleem

hamza

hussien

Email:

halem.h

@uodiya

la.edu.iq

8. Course Objectives

### Course Objectives

The student will acquire the ability to diagnose parasites isolated from humans and animals.

- The student must have knowledge of analyzing samples, whether they are stool, blood, or skin scrapings
- The student's skill in using the equipment used in diagnosis, such as the microscope and the ELISA device
- The student's skill in collecting samples and recording case data and medical case histories

9. Teaching and Learning Strategies

Strategy

- Using the method of presenting on the screen, asking direct questions to the students and involving them in the lecture.
- 2- Conducting various modern diagnostic methods for samples received into the laboratory in the practical subject lessons
- 3- Assigning the student to write a report on the most important parasites in Iraq that are related to the academic course.
- 4- Display colorful pictures and videos of diagnostic methods.

10-Course structure Theoretical Parasitology Course Program / Third Level / first Course

week	Hours		name	method	Evaluation
					method
1	3	General Introduction <b>Helminthology</b> Phylum	Parasitology	lecture	Exam
2		<b>Nemathelminths</b> Class Nematoda	Parasitology	lecture	Exam
3		<b>Ascaridida</b>	Parasitology	lecture	Exam
4		"Family Heterakidae "	Parasitology	lecture	Exam
5		<b>Order Srongylida</b>	Parasitology	lecture	Exam
6		<b>Family Ancylostomidae</b> <b>Family Dictyocaulidae</b>	Parasitology	lecture	Exam
7		<b>Order Enoplida</b>	Parasitology	lecture	Exam
8		<b>order spirurida</b>	Parasitology	lecture	Exam
9		<b>Phylum Acanthocephala</b>	Parasitology	lecture	Exam
10		<b>Phylum:Annelida Lamarck, 1809</b>	Parasitology	lecture	Exam
11		<b>Phylum Platyhelminthes</b> <b>Class Cestoda (Tape worms)</b>	Parasitology	lecture	Exam
12		<u>Families Of Order Cyclophyllidea :</u> <u>Taeniidae,</u>	Parasitology	lecture	Exam
13		<b>Family Anoplocephalidae.</b>	Parasitology	lecture	Exam
14		<b>Family Hymenolepididae</b>	Parasitology	lecture	Exam



15		<b>Class Trematoda ( Fluke worms</b>	Parasitology	lecture	Exam
----	--	--------------------------------------	--------------	---------	------

Course Structure: Theoretical Parasitology Course Program / Third Level / Second Course

week	Hours		name	method	Evaluation
					method
1	3	<b>Family Fasciolidae</b>	Parasitology	lecture	Exam
2		<b>Family Paramphistomidae</b>	Parasitology	lecture	Exam
3		<b>Protozoology Introduction :</b>	Parasitology	lecture	Exam
4		<b>Phylum Kinetoplastida</b>	Parasitology	lecture	Exam
5		<b>Phylum Parabasalia</b>	Parasitology	lecture	Exam
6		<b>Phylum Apicomplex "Sporozoa"</b>	Parasitology	lecture	Exam
7		<b>Family Sarcocystidae</b>	Parasitology	lecture	Exam

8	Family: Cryptosporidiidae	Parasitology	lecture	Exam
9	Family Plasmodiidae (MALARIAL)	Parasitology	lecture	Exam
10	"Piroplasms" Order PIROPLASMIDA <u>Family Theileriidae</u>	Parasitology	lecture	Exam
11	Phylum Microsporidia	Parasitology	lecture	Exam
12	Veterinary & Medical Entomology	Parasitology	lecture	Exam
13	Family Fasciolidae	Parasitology	lecture	Exam
14	Class Insecta ( Hexapoda ) Order: Hemiptera (Cimicidae) Order Siphonaptera (fleas)	Parasitology	lecture	Exam
15	Order Diptera (flies ; mosquitoes ; midges ) Order: Diptera; suborder: Brachycera	Parasitology	lecture	Exam

#### 11-course evaluation

Mid-course exams at the end of the course  
Short quizzes  
Practical, oral and clinical examinations  
the activities

#### 12- Learning and teaching resource

Required textbooks (curricular, if any)

- E.J.L. Soulsby ( 2006)
  - Veterinary medicine. 10th Ed
- Textbook** of Veterinary Clinical  
Parasitology

Main references (sources)	<ul style="list-style-type: none"> <li>- Veterinary Parasitology 2014</li> <li>- Clinical Parasitology A PRACTICAL 2011 3rd Ed</li> </ul> Principles of Veterinary Parasitology Dennis Jacobs 2020
Recommended books and supporting references (scientific journals, reports....)	-Veterinary medical journals issued by Iraqi veterinary medical colleges. Arab and international medical journals
Electronic references, Internet sites	Iraqi academic scientific journals <a href="http://www.iasj.net">http://www.iasj.net</a>

## **Academic description forms for the department of surgery and obstetrics**

This course description provides a brief summary of the most important characteristics of the course and the educational objectives that the student is expected to achieve, demonstrating whether he has made the most of the available learning opportunities, and this must be linked to the program description.

### **1. Program vision**

Teaching students how to deal with various surgical cases that may occur or be performed on different animals, as well as teaching the subject of veterinary obstetrics and various reproductive diseases that are taught within the subjects of the fourth and fifth stages.

### **2. Program mission**

The courses of the Surgery and Obstetrics department enable the student to know and understand the relationship between the department subjects and other closely related science courses, such as physiology and diseases, and their relationship to the functions of organs, and how to benefit from this knowledge in other applied sciences.

### **3. Program Objective**

Providing students with integrated knowledge of surgical sciences, veterinary obstetrics, and reproductive technologies that helps them scientifically and practically in understanding and assimilating other veterinary sciences.

### **4. Program Accreditation**

Submitted

### **5. Other external influences**

Veterinary hospital, library, internet, owners, veterinarians association

### **6 .Program structure**

<b>Program structure</b>	<b>percentage</b>	<b>Credit hours</b>	<b>Number of Courses</b>	<b>Reviews</b>
<b>Institution Requirements</b>	<b>%100</b>	<b>45</b>	<b>1</b>	<b>Basic</b>
<b>College Requirements</b>	<b>%100</b>	<b>45</b>	<b>1</b>	<b>Basic</b>
<b>Department Requirements</b>	<b>%100</b>	<b>45</b>	<b>1</b>	<b>Basic</b>
<b>Summer Training</b>	<b>%100</b>	<b>45</b>	<b>1</b>	<b>Basic</b>
<b>Other</b>	<b>---</b>	<b>----</b>	<b>----</b>	

\*Notes may include whether the course is basic or elective.

## Course Description Form

1. Course Name:

**Female Fertility**

2. Course Code:

Fourth year

3. Semester / Year:

First semester 2023-2024

4. Description Preparation Date:

2024

5. Available Attendance Forms:

Mandatory attendance

6. Number of Credit Hours (Total) / Number of  
Units (Total)

Total Credit hours 60 (Theory +Practical) :Total Units 45

7. Course administrator's name (mention all, if  
more than one name)

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أ.م. د.صلاح نوري محمد salah.n@uodiyala.edu.iq

8-Course Objectives

Course Objectives

- 1- -Identify the most important reproductive techniques in the field of veterinary medicine
- 2- -2Teaching the student methods for examining the female reproductive system in various field animals
- 3- -Identify methods of diagnosing reproductive diseases.

9-Teaching and Learning Strategies

Strategies

- 1- The method of delivery is accompanied by interrogation by asking direct questions to the students and involving them in the lecture.
- 2- Conducting various types of clinical examinations of the reproductive system in large and small animals in the animal field.
- 3- Assigning the student to write reports related to the course topics.
- 4- Displaying pictures and films of obstetric maneuvers through the data show device

**10. Structure of Female Fertility**

<b>Week</b>	<b>Hours</b>	<b>Required learning Outcomes</b>	<b>Unit or subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
<b>First</b>	<b>4</b>	Female puberty and maturity+ comparative anatomy of female genital system	<b>Female Fertility</b>	<b>Lecture</b>	<b>Exam</b>
<b>second</b>	<b>4</b>	Anatomy of female reproductive system+ comparative anatomy of female genital system	<b>Female Fertility</b>	<b>Lecture</b>	<b>Exam</b>
<b>Third</b>	<b>4</b>	Estrous cycle in domestic animals+estrus signs and estrus detection in cows	<b>Female Fertility</b>	<b>Lecture</b>	<b>Exam</b>
<b>Fourth</b>	<b>4</b>	Seasonality+ estrus detection in cows	<b>Female Fertility</b>	<b>Lecture</b>	<b>Exam</b>
<b>Fifth</b>	<b>4</b>	Ovulation+ principles of rectal palpation	<b>Male Fertility</b>	<b>Lecture</b>	<b>Exam</b>
<b>sixth</b>	<b>4</b>	Luteolysis+ principles of rectal palpation	<b>Female Fertility</b>	<b>Lecture</b>	<b>Exam</b>
<b>Seventh</b>	<b>4</b>	Reproductive hormones+ clinical uses of reproductive hormones)	<b>Female Fertility</b>	<b>Lecture</b>	<b>Exam</b>
<b>Eighth</b>	<b>4</b>	Reproduction in mares+ clinical uses of reproductive hormones	<b>Female Fertility</b>	<b>Lecture</b>	<b>Exam</b>
<b>Ninth</b>	<b>4</b>	Reproduction in Buffaloes+ Vaginal examination in farm animals	<b>Female Fertility</b>	<b>Lecture</b>	<b>Exam</b>
<b>Tenth</b>	<b>4</b>	Reproduction in camels+ vaginal examination in farm animals	<b>Female Fertility</b>	<b>Lecture</b>	<b>Exam</b>
<b>Eleventh</b>	<b>4</b>	Reproduction in Bitches+ intra-uterine therapies)	<b>Female Fertility</b>	<b>Lecture</b>	<b>Exam</b>
<b>Twelvish</b>	<b>4</b>	Reproduction in feline+ overview of anomalies of female genital system	<b>Female Fertility</b>	<b>Lecture</b>	<b>Exam</b>
<b>Thirteenth</b>	<b>4</b>	Infertility and sterility in cows+ records of reproductive events in bovine herd	<b>Female Fertility</b>	<b>Lecture</b>	<b>Exam</b>
<b>Fourteenth</b>	<b>4</b>	Infertility and sterility + reproductive performance in dairy herds	<b>Female Fertility</b>	<b>Lecture</b>	<b>Exam</b>
<b>Fifteenth</b>	<b>2</b>	<b>Exam</b>	<b>Female Fertility</b>	<b>Lecture</b>	<b>Exam</b>

11-Course Evaluation	<b>1.Preparing class and homework assignments</b> <b>.2Preparing reports on practical experiments</b> <b>.3Conducting daily and quarterly examinations</b> <b>.4Conducting final exams</b>
<b>11-Learning and Teaching Resources</b>	
<b>Required textbooks (methodology, if any)</b>	<b>1-Veterinary reproduction and obstetrics (Noakes et.al.2009)</b> <b>2- Veterinary endocrinology and reproduction (McDonalds .2003).</b>
<b>Main references/sources</b>	<b>-Current therapy in large animal theriogenology</b>
<b>Recommended supporting books and references (scientific journals, reports....)</b>	<b>-Veterinary medical journals issued by Iraqi veterinary medical colleges.</b> <b>-Arab and international medical journals</b>
<b>Electronic references, websites</b>	<i>Research gate , Google Schooler</i> <a href="http://www.iasj.net">http://www.iasj.net</a>

## 7. Program description

Year/level	Course Code	Course Name	Credit Hours	
			Theoretical	Practical
fourth	Surgery-1 <sup>st</sup>	Surgery-1 <sup>st</sup> semester	30hr	30hr
	Surgery-2 <sup>nd</sup>	Surgery-2 <sup>nd</sup> Semester	30hr	30hr
	Female fertility-1 <sup>st</sup>	Female fertility-1 <sup>st</sup> semester	30hr	30hr
	Vet.Obstetrics-2 <sup>nd</sup>	Vet.Obstetrics-2 <sup>nd</sup> semester	30hr	30hr
Fifth	Surgery-1 <sup>st</sup>	Surgery-1 <sup>st</sup> semester	45hr	30hr
	Surgery-2 <sup>nd</sup>	Surgery-2 <sup>nd</sup> semester	45hr	30hr
	Male fertility	Male fertility-1 <sup>st</sup> semester	15hr	30hr
	Repro.Biology	Repro.Biology 2 <sup>nd</sup> semester	15hr	30hr

## 8-Expected Learning outcomes of the program

### Knowledge

1-Understanding the pathological and non-pathological causes of the male and female reproductive system and how to treat them.  
2- That the student recognizes the special symptoms of each disease that affects the male and female reproductive system and understands the various types of therapeutic methods.

1 -The student will be familiar with the most important techniques used in the field of animal reproduction.  
2- For the student to become familiar with the mechanism of operation of modern technologies.

### Skills

1.The ability of the graduate to be a veterinarian familiar with the diagnosis and treatment of reproductive diseases

1.The ability to speak in front of an audience and discuss reproductive topics

2. Ability to be a researcher in modern reproductive diseases and treatments

2. The ability to express opinions in diagnosing and treating diseases that require skills and competence

### Ethics

1-Respect the rights of his colleagues and participate positively in scientific discussions to solve problems

1- Commitment to veterinary medicine ethics in practicing the profession and in accordance with community values

2-Appreciating the importance of continuous study and updating information to keep pace with

2-Commitment to attending discussion sessions in general



scientific development

### 9-Teaching and learning Strategies

- 1 -The method of delivery is accompanied by interrogation by asking direct questions to the students and involving them in the lecture.
- 2-Conducting various types of clinical examinations of the reproductive system in large and small animals in the animal field.
- 3-Assigning the student to write reports related to the course topics.
- 4- Displaying pictures and films of obstetric maneuvers through the data show device

### 10.Evaluation methods.

- 1-Theoretical lectures using illustrations
- 2-Practical application of the concepts studied in specialized laboratories and veterinary teaching hospitals
- 3- Seminars and seminars
- 4-Solve problems after discussing them in small groups to develop appropriate solutions

### 11.faculty.

#### Faculty Members

Academic Rank	Specialization		Special Requirements/Skills(if applicable)		Number of teaching staff
	General	Special			
Professors	Bch.vet medicine and Surgery	Vet. Theriogenology and Obstetrics	--	--	2
Assistant Professors	Bch.vet medicine and Surgery	Vet. Theriogenology and Obstetrics	--	---	2

Teachers	Bch.vet medicine and Surgery	Vet. Surgery	---	---	1
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### 11. Professional Development

#### Mentoring new faculty members

Preparing seminars and introductory courses for new teachers, holding periodic meetings to introduce them to work contexts, daily guidance, continuous follow-up, and giving advice and directions.

#### Professional development of faculty members

Continuous learning through searching for new developments using the library and the Internet, in addition to attending seminars, workshops, and specialized scientific seminars, as well as active attendance at the veterinary teaching hospital to hone skills.

### 12. acceptance Criterion

**Admission will be centralized through the Ministry of Higher Education and Scientific Research, based on the student's grades in the sixth scientific year, after preparing the relevant form electronically.**

### 13. The most important sources of information about the program

The website of the university and college, in addition to the official website of the Ministry of Higher Education and Scientific Research, as well as the college library and the central library of the university.

### 14. Program Development Plan

. Developing the scientific and administrative staff at the college through annual evaluation files that reveal strengths and weaknesses.

- Conducting evaluation studies related to developing and improving the performance of senior leaders, faculty members, and employees working in the college.

- Proposing strategies, plans and executive policies to ensure quality and reliability.

- Developing guidelines for methods of applying quality and academic accreditation in order to achieve the best.

. Preparing detailed data and statistics about the college, its objectives, departments, activities and future plans to be accomplished.

.Providing advice and guidance on what the institution must do in order to improve in full compliance with accreditation standards

Program Skills Outline															
				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
Fourth	Surgery-1 <sup>st</sup>	Surgery-1 <sup>st</sup> semester	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Surgery-2 <sup>nd</sup>	Surgery-2 <sup>nd</sup> Semester	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Female fertility-	Female fertility-1 <sup>st</sup> semester	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Vet.Obstetrics	Vet.Obstetrics-2 <sup>nd</sup> semester	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

<b>Fifth</b>	<b>Surgery-1<sup>st</sup></b>	<b>Surgery-1<sup>st</sup> semester</b>	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	<b>Surgery-2<sup>nd</sup></b>	<b>Surgery-2<sup>nd</sup> semester</b>	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	<b>Male fertility</b>	<b>Male fertility-1<sup>st</sup> semester</b>	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	<b>Repro.Biology</b>	<b>Repro.Biology 2<sup>nd</sup> semester</b>	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

**.Please tick the boxes corresponding to the individual program learning outcomes under evaluation.**

## **Academic description forms for the department of surgery and obstetrics**

*This course description provides a brief summary of the most important characteristics of the course and the educational objectives that the student is expected to achieve, demonstrating whether he has made the most of the available learning opportunities, and this must be linked to the program description.*

### **1. Program vision**

Teaching students how to deal with various surgical cases that may occur or be performed on different animals, as well as teaching the subject of veterinary obstetrics and various reproductive diseases that are taught within the subjects of the fourth and fifth stages.

### **2. Program mission**

The courses of the Surgery and Obstetrics department enable the student to know and understand the relationship between the department subjects and other closely related science courses, such as physiology and diseases, and their relationship to the functions of organs, and how to benefit from this knowledge in other applied sciences.

### **4. Program Objective**

Providing students with integrated knowledge of surgical sciences, veterinary obstetrics, and reproductive technologies that helps them scientifically and practically in understanding and assimilating other veterinary sciences.

### **4. Program Accreditation**

Submitted

### **5. Other external influences**

Veterinary hospital, library, internet, owners, veterinarians association

### **6 .Program structure**

<b>Program structure</b>	<b>percentage</b>	<b>Credit hours</b>	<b>Number of Courses</b>	<b>Reviews</b>
<b>Institution Requirements</b>	<b>%100</b>	<b>28</b>	<b>8</b>	<b>Basic</b>
<b>College Requirements</b>	<b>%100</b>	<b>28</b>	<b>8</b>	<b>Basic</b>
<b>Department Requirements</b>	<b>%100</b>	<b>28</b>	<b>8</b>	<b>Basic</b>
<b>Summer Training</b>	<b>%100</b>	<b>13</b>	<b>1</b>	<b>Basic</b>
<b>Other</b>	<b>---</b>	<b>----</b>	<b>----</b>	

\*Notes may include whether the course is basic or elective.

## Course Description Form

1. Course Name:	
<b>Male Fertility</b>	
2. Course Code:	
Fifth year	
3. Semester / Year:	
First semester 2023-2024	
4. Description Preparation Date:	
2024	
5. Available Attendance Forms:	
Mandatory attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Total Credit hours 30(Theory +Practical) :Total Units 15	
7. Course administrator's name (mention all, if more than one name)	
الاسم: أ.د محمد يوسف محمود , <a href="mailto:mohamd.y@uodiyala.edu.iq">mohamd.y@uodiyala.edu.iq</a>	
أ.م ياسين محمود رشيد : <a href="mailto:yaseen.m@uodiyala.edu.iq">yaseen.m@uodiyala.edu.iq</a>	
8-Course Objectives	
Course Objectives	4- -Identify the most important reproductive techniques in the field of veterinary medicine 5- -Teaching the student methods for examining the male reproductive system in various field animals 6- -Identify methods of diagnosing reproductive diseases.
9-Teaching and Learning Strategies	
<b>Strategies</b>	<b>1- The method of delivery is accompanied by interrogation by asking direct questions to the students and involving them in the lecture.</b> <b>2- Conducting various types of clinical examinations of the reproductive system in large and small animals in the animal field.</b> <b>3- Assigning the student to write reports related to the course topics.</b> <b>4- Displaying pictures and films of obstetric maneuvers through the data show device</b>

**10. Structure of Male Fertility**

<b>Week</b>	<b>Hours</b>	<b>Required learning Outcomes</b>	<b>Unit or subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
<b>First</b>	<b>3</b>	Male puberty and maturity+ Anatomy of male genital system	<b>Male Fertility</b>	<b>Lecture</b>	<b>Exam</b>
<b>second</b>	<b>3</b>	Hormonal control of male reproductive system+ Breeding soundness	<b>Male Fertility</b>	<b>Lecture</b>	<b>Exam</b>
<b>Third</b>	<b>3</b>	Spermatogenesis+ Semen collection	<b>Male Fertility</b>	<b>Lecture</b>	<b>Exam</b>
<b>Fourth</b>	<b>3</b>	Composition of semen+ Semen collection	<b>Male Fertility</b>	<b>Lecture</b>	<b>Exam</b>
<b>Fifth</b>	<b>3</b>	Sperm metabolism+ Semen evaluation (macroscopically, Volume, color, microscopically)	<b>Male Fertility</b>	<b>Lecture</b>	<b>Exam</b>
<b>sixth</b>	<b>3</b>	Method of semen collection+ Semen evaluation (macroscopically, Volume, color, microscopically)	<b>Male Fertility</b>	<b>Lecture</b>	<b>Exam</b>
<b>Seventh</b>	<b>3</b>	Method of semen evaluation+ Semen evaluation(live/dead and abnormal percentage)	<b>Male Fertility</b>	<b>Lecture</b>	<b>Exam</b>
<b>Eighth</b>	<b>3</b>	Method of semen evaluation+ Semen dilution	<b>Male Fertility</b>	<b>Lecture</b>	<b>Exam</b>
<b>Ninth</b>	<b>3</b>	Method of semen dilution (Liquid and frozen)	<b>Male Fertility</b>	<b>Lecture</b>	<b>Exam</b>



Tenth	3	Semen storage	Male Fertility	Lecture	Exam
Eleventh	3	Method of semen dilution+ Semen storage(Liquid and frozen)	Male Fertility	Lecture	Exam
Twelvish	3	Infertility in males	Male Fertility	Lecture	Exam
Thirteenth	3	Artificial insemination and sperm transport+	Male Fertility	Lecture	Exam
Fourteenth	3	Insemination technique	Male Fertility	Lecture	Exam
Fifteenth	3	<b>Exam</b>	Male Fertility	Lecture	Exam

11-Course Evaluation	<b>1.Preparing class and homework assignments</b> <b>.2Preparing reports on practical experiments</b> <b>.3Conducting daily and quarterly examinations</b> <b>.4Conducting final exams</b>
<b>12-Learning and Teaching Resources</b>	
Required textbooks (methodology, if any)	<b>1-Veterinay reproduction and obstetrics (Noakes et.al.2009)</b> <b>2- Veterinary endocrinology and reproduction (McDonalds .2003).</b>
Main references/sources	<b>-Current therapy in large animal theriogenology</b>
Recommended supporting books and references (scientific journals, reports....)	<b>-Veterinary medical journals issued by Iraqi veterinary medical colleges.</b> <b>-Arab and international medical journals</b>
Electronic references, websites	<i>Research gate , Google Schooler</i> <a href="http://www.iasj.net">http://www.iasj.net</a>

## Course Description Form

1. Course Name:	<b>Female Fertility</b>
2. Course Code:	Fourth year
3. Semester / Year:	First semester 2023-2024
4. Description Preparation Date:	2024
5. Available Attendance Forms:	

Mandatory attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Total Credit hours 60 (Theory +Practical) :Total Units 45	
7. Course administrator's name (mention all, if more than one name)	
الاسم: أ.نورالدين ياسين خضير nooraldin.y@uodiyala.edu.iq	
أ.م. د. صلاح نوري محمد salah.n@uodiyala.edu.iq	
8-Course Objectives	
Course Objectives	<p>1-Identify the most important reproductive techniques in the field of veterinary medicine</p> <p>-2-Teaching the student methods for examining the female reproductive system in various field animals</p> <p>3-Identify methods of diagnosing reproductive diseases.</p>
9-Teaching and Learning Strategies	
Strategies	<p><b>1- The method of delivery is accompanied by interrogation by asking direct questions to the students and involving them in the lecture.</b></p> <p><b>2- Conducting various types of clinical examinations of the reproductive system in large and small animals in the animal field.</b></p> <p><b>3- Assigning the student to write reports related to the course topics.</b></p> <p><b>4- Displaying pictures and films of obstetric maneuvers through the data show device</b></p>

<b>10. Structure of Female Fertility</b>					
<b>Week</b>	<b>Hours</b>	<b>Required learning Outcomes</b>	<b>Unit or subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
<b>First</b>	<b>4</b>	Female puberty and maturity+ comparative anatomy of female genital system	<b>Female Fertility</b>	<b>Lecture</b>	<b>Exam</b>
<b>second</b>	<b>4</b>	Anatomy of female reproductive system+ comparative anatomy of female genital system	<b>Female Fertility</b>	<b>Lecture</b>	<b>Exam</b>
<b>Third</b>	<b>4</b>	Estrous cycle in domestic animals+estrus signs and estrus detection in cows	<b>Female Fertility</b>	<b>Lecture</b>	<b>Exam</b>
<b>Fourth</b>	<b>4</b>	Seasonality+ estrus detection in cows	<b>Female Fertility</b>	<b>Lecture</b>	<b>Exam</b>
<b>Fifth</b>	<b>4</b>	Ovulation+ principles of rectal palpation	<b>Male Fertility</b>	<b>Lecture</b>	<b>Exam</b>
<b>sixth</b>	<b>4</b>	Luteolysis+ principles of rectal palpation	<b>Female Fertility</b>	<b>Lecture</b>	<b>Exam</b>
<b>Seventh</b>	<b>4</b>	Reproductive hormones+ clinical uses of reproductive hormones)	<b>Female Fertility</b>	<b>Lecture</b>	<b>Exam</b>
<b>Eighth</b>	<b>4</b>	Reproduction in mares+ clinical uses of reproductive hormones	<b>Female Fertility</b>	<b>Lecture</b>	<b>Exam</b>
<b>Ninth</b>	<b>4</b>	Reproduction in Buffaloes+ Vaginal examination in farm animals	<b>Female Fertility</b>	<b>Lecture</b>	<b>Exam</b>
<b>Tenth</b>	<b>4</b>	Reproduction in camels+ vaginal examination in farm animals	<b>Female Fertility</b>	<b>Lecture</b>	<b>Exam</b>
<b>Eleventh</b>	<b>4</b>	Reproduction in Bitches+ intra-uterine therapies)	<b>Female Fertility</b>	<b>Lecture</b>	<b>Exam</b>
<b>Twelvish</b>	<b>4</b>	Reproduction in feline+ overview of anomalies of female genital system	<b>Female Fertility</b>	<b>Lecture</b>	<b>Exam</b>
<b>Thirteenth</b>	<b>4</b>	Infertility and sterility in cows+ records of reproductive events in bovine herd	<b>Female Fertility</b>	<b>Lecture</b>	<b>Exam</b>
<b>Fourteenth</b>	<b>4</b>	Infertility and sterility + reproductive performance in dairy herds	<b>Female Fertility</b>	<b>Lecture</b>	<b>Exam</b>
<b>Fifteenth</b>	<b>2</b>	<b>Exam</b>	<b>Female Fertility</b>	<b>Lecture</b>	<b>Exam</b>

<b>11-Course Evaluation</b>	<b>1.Preparing class and homework assignments</b> <b>.2Preparing reports on practical experiments</b> <b>.3Conducting daily and quarterly examinations</b> <b>.4Conducting final exams</b>
<b>12-Learning and Teaching Resources</b>	
<b>Required textbooks (methodology, if any)</b>	<b>1-Veterinary reproduction and obstetrics (Noakes</b>

	et.al.2009) 2- Veterinary endocrinology and reproduction (McDonalds .2003).
Main references/sources	-Current therapy in large animal theriogenology
Recommended supporting books and references (scientific journals, reports....)	-Veterinary medical journals issued by Iraqi veterinary medical colleges. -Arab and international medical journals
Electronic references, websites	Research gate , Google Schooler <a href="http://www.iasj.net">http://www.iasj.net</a>

## Course Description Form

Course Name:	
<b>Obstetrics</b>	
Course Code:	
Fourth year	
Semester / Year:	
Second semester 2023-2024	
Description Preparation Date:	
2024	
5. Available Attendance Forms:	
Mandatory attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Total Credit hours 60 (Theory +Practical) :Total Units 45	
7. Course administrator's name (mention all, if more than one name)	
الاسم: أ.نورالدين ياسين خضير nooraldin.y@uodiyala.edu.iq	
أ.م. د. صلاح نوري محمد salah.n@uodiyala.edu.iq	
8-Course Objectives	
Course Objectives	<ol style="list-style-type: none"> <li>1- -Identify the most important reproductive techniques in the field of veterinary medicine</li> <li>2- -2Teaching the student methods for examining the female reproductive system in various field animals</li> <li>3- -Identify methods of diagnosing reproductive diseases.</li> </ol>

## 9-Teaching and Learning Strategies

Strategies	<ol style="list-style-type: none"><li>1- The method of delivery is accompanied by interrogation by asking direct questions to the students and involving them in the lecture.</li><li>2- Conducting various types of clinical examinations of the reproductive system in large and small animals in the animal field.</li><li>3- Assigning the student to write reports related to the course topics.</li><li>4- Displaying pictures and films of obstetric maneuvers through the data show device</li></ol>
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## 10. Structure of Obstetrics

Week	Hours	Required learning Outcomes	Unit or subject name	Learning method	Evaluation method
First	4	Physiology of pregnancy+types of placenta	Obstetrics	Lecture	Exam
second	4	Pregnancy diagnosis+ types of placenta	Obstetrics	Lecture	Exam
Third	4	Maternal recognition of pregnancy+ pregnancy diagnosis	Obstetrics	Lecture	Exam
Fourth	4	Fetal membranes and fetal fluids+ uterine torsion	Obstetrics	Lecture	Exam
Fifth	4	Position of uterus during pregnancy+ fetal anomalies	Obstetrics	Lecture	Exam
Ssixth	4	Maintenance of pregnancy+ normal P1,P2,P3	Obstetrics	Lecture	Exam
Seventh	4	Length of gestation+ obstetrical equipment	Obstetrics	Lecture	Exam
Eighth	4	Pregnancy diagnosis+ obstetrical manoeuvres	Obstetrics	Lecture	Exam
Ninth	4	Problems of pregnancy+ fetotomy	Obstetrics	Lecture	Exam
Tenth	4	Parturition+ ovarioectomy	Obstetrics	Lecture	Exam
Eleventh	4	Dystocia+cesarean section	Obstetrics	Lecture	Exam
Twelvish	4	Induction of parturition+ vaginal prolapse during pregnancy	Obstetrics	Lecture	Exam
Thirteenth	4	Puerperium+ uterine torsion	Obstetrics	Lecture	Exam
Fourteenth	4	Puerperal metritis and retained placenta+ uterine prolapse	Obstetrics	Lecture	Exam
Fifteenth	2	Exam	Obstetrics	Lecture	Exam

11-Course Evaluation	<b>1-Preparing class and homework assignments</b> <b>2-Preparing reports on practical experiments</b> <b>3-Conducting daily and quarterly examinations</b> <b>4-Conducting final exams .</b>
<b>12-Learning and Teaching Resources</b>	
Required textbooks (methodology, if any)	<b>1-Veterinary reproduction and obstetrics (Noakes et.al.2009)</b> <b>2- Veterinary endocrinology and reproduction (McDonalds .2003).</b>
Main references/sources	<b>-Current therapy in large animal theriogenology</b>
Recommended supporting books and references (scientific journals, reports....)	<b>Veterinary medical journals issued by Iraqi -</b> <b>.veterinary medical colleges</b> <b>Arab and international medical journals-</b>
Electronic references, websites	<i>Research gate , Google Schooler</i> <a href="http://www.iasj.net">http://www.iasj.net</a>

11-Course Evaluation	<b>1.Preparing class and homework assignments</b> <b>.2Preparing reports on practical experiments</b> <b>.3Conducting daily and quarterly examinations</b> <b>.4Conducting final exams</b>
<b>11-Learning and Teaching Resources</b>	
<b>Required textbooks (methodology, if any)</b>	<b>1-Veterinary reproduction and obstetrics (Noakes et.al.2009)</b> <b>2- Veterinary endocrinology and reproduction (McDonalds .2003).</b>
<b>Main references/sources</b>	<b>-Current therapy in large animal theriogenology</b>
<b>Recommended supporting books and references (scientific journals, reports....)</b>	<b>-Veterinary medical journals issued by Iraqi veterinary medical colleges.</b> <b>-Arab and international medical journals</b>
Electronic references, websites	<i>Research gate , Google Schooler</i> <a href="http://www.iasj.net">http://www.iasj.net</a>

### **Academic description forms for the department of microbiology**

*This course description provides a brief summary of the most important characteristics of the course and the educational objectives that the student is expected to achieve, demonstrating whether he has made the most of the available learning opportunities, and this must be linked to the program description.*

#### **1.Program vision**

**Teaching students how to deal with various infection cases that may occur or be**

performed on different animals, as well as teaching the subject of veterinary obstetrics and various reproductive diseases that are taught within the subjects of the First and third stages.

## 2. Program mission

The courses of the microbiology department enable the student to know and understand the relationship between the department subjects and other closely related science courses, such as physiology and diseases, and their relationship to the functions of organs, and how to benefit from this knowledge in other applied sciences.

## 5. Program Objective

Providing students with integrated knowledge of microbiology sciences, veterinary obstetrics, and technologies that helps them scientifically and practically in understanding and assimilating other veterinary sciences.

## 4. Program Accreditation

Submitted

## 5. Other external influences

Veterinary hospital, library, internet, owners, veterinarians association

## 6 .Program structure

Program structure	percentage	Credit hours	Number of Courses	Reviews
Institution Requirements	%100	28	8	Basic
College Requirements	%100	28	8	Basic
Department Requirements	%100	28	8	Basic
Summer Training	%100	13	1	Basic
Other	---	----	----	

\*Notes may include whether the course is basic or elective.

## Course Description Form

1. Course Name:

**virology**

2. Course Code:



Fifth year	
3. Semester / Year:	
thirst semester 2023-2024	
4. Description Preparation Date:	
2024	
5. Available Attendance Forms:	
Mandatory attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Total Credit hours 30(Theory +Practical) :Total Units 15	
7. Course administrator's name (mention all, if more than one name)	
الاسم: ا.د. عامر خزعل صالح الأيميل: amer.k@uodiyala.edu.iq	
8-Course Objectives	
Course Objectives	7- -- That the student acquires the ability to diagnose viruses isolated from humans and animals. 8- - The student must have knowledge of analyzing samples, whether they are stool, blood, or skin scrapings 9- -The student's skill in using the equipment used in diagnosis, such as the microscope and the ELISA device 10- -The student's skill in collecting samples and recording case data and medical case histories
9-Teaching and Learning Strategies	
<b>Strategies</b>	<b>Using the method of presenting on the screen, asking direct questions to the students and involving them in the lecture.</b> <b>2- Conducting various modern diagnostic methods for samples received into the laboratory in the practical subject lessons</b> <b>3- Assigning the student to write a report on the most important viruses in Iraq that are related to the academic course.</b> <b>4- Display colorful pictures and videos of diagnostic methods.</b>

<b>10. Structure of Male Fertility</b>					
<b>Week</b>	<b>Hours</b>	<b>Required learning Outcomes</b>	<b>Unit or subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
<b>First</b>	<b>3</b>	Properties Of Animal Viruses	<i><b>Virology</b></i>	Lecture	<b>Exam</b>
<b>second</b>	<b>3</b>	Viral Taxonomy And Replication	<i><b>Virology</b></i>	Lecture	<b>Exam</b>
<b>Third</b>	<b>3</b>	Prevention And Treatment Of Viral Diseases	<i><b>Virology</b></i>	Lecture	<b>Exam</b>
<b>Fourth</b>	<b>3</b>	Viral Pathogenesis And Viral Genetics	<i><b>Virology</b></i>	Lecture	<b>Exam</b>
<b>Fifth</b>	<b>3</b>	The Differences Between Viruses And Unicellular Microorganisms	<i><b>Virology</b></i>	Lecture	<b>Exam</b>
<b>sixth</b>	<b>3</b>	Exam	<i><b>Virology</b></i>	Lecture	<b>Exam</b>
<b>Seventh</b>	<b>3</b>	The Genome Of A Virus	<i><b>Virology</b></i>	Lecture	<b>Exam</b>
<b>Eighth</b>	<b>3</b>	<ul style="list-style-type: none"> <li>• Dna Virus</li> <li>• Rna Virus</li> </ul>	<i><b>Virology</b></i>	Lecture	<b>Exam</b>
<b>Ninth</b>	<b>3</b>	<ul style="list-style-type: none"> <li>• Viral Symmetry</li> </ul>	<i><b>Virology</b></i>	Lecture	<b>Exam</b>
<b>Tenth</b>	<b>3</b>	Classification Of Viruses	<i><b>Virology</b></i>	Lecture	<b>Exam</b>
<b>Eleventh</b>	<b>3</b>	Exam	<i><b>Virology</b></i>	Lecture	<b>Exam</b>
<b>Twelvish</b>	<b>3</b>	Diagnostic Virology	<i><b>Virology</b></i>	Lecture	<b>Exam</b>
<b>Thirteenth</b>	<b>3</b>	<ul style="list-style-type: none"> <li>• Diseases Transmission And Determinants</li> </ul>	<i><b>Virology</b></i>	Lecture	<b>Exam</b>
<b>Fourteenth</b>	<b>3</b>	Vaccin	<i><b>Virology</b></i>	Lecture	<b>Exam</b>
<b>Fifteenth</b>	<b>3</b>	<ul style="list-style-type: none"> <li>• Introduction To Virology And Virus Architecture</li> <li>The History Of The Viruses</li> </ul>	<i><b>Virology</b></i>	Lecture	<b>Exam</b>

11-Course Evaluation	<b>1.Preparing class and homework assignments</b> <b>.2Preparing reports on practical experiments</b> <b>.3Conducting daily and quarterly examinations</b> <b>.4Conducting final exams</b>
<b>12-Learning and Teaching Resources</b>	
<b>Required textbooks (methodology, if any)</b>	- <b>Veterinary medicine. 10th Ed</b> <b>Textbook of Veterinary virology</b>
<b>Main references/sources</b>	- <b>Veterinary virology 2015</b>
<b>Recommended supporting books and references (scientific journals, reports....)</b>	- <b>Veterinary medical journals issued by Iraqi veterinary medical colleges.</b> - <b>Arab and international medical journals</b>
<b>Electronic references, websites</b>	<i>Research gate , Google Schooler</i> <a href="http://www.iasj.net">http://www.iasj.net</a>

## Course Description Form

1. Course Name:	
<b>Immunology</b>	
2. Course Code:	
thirst year	
3. Semester / Year:	
First semester 2023-2024	
4. Description Preparation Date:	
2024	
5. Available Attendance Forms:	
Mandatory attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Total Credit hours 60 (Theory +Practical) :Total Units 45	
7. Course administrator's name (mention all, if more than one name)	
الاسم: ا.م.د.ولاء نجم عبود      الأيميل: walaa.n@uodiyala.edu.iq	
8-Course Objectives	
Course Objectives	<ul style="list-style-type: none"> <li>- That the student acquires the ability to know what immunity is in humans and animals.</li> <li>- The student must have knowledge of analyzing samples, whether they are stool, blood, or skin scrapings</li> <li>-The student's skill in using the equipment used in diagnosis, such as the microscope and the ELISA device</li> <li>-The student's skill in collecting samples and recording case data and medical case histories</li> </ul>
9-Teaching and Learning Strategies	
Strategies	<ol style="list-style-type: none"> <li><b>1- The method of delivery is accompanied by interrogation by asking direct questions to the students and involving them in the lecture.</b></li> <li><b>2- Conducting various types of clinical examinations of the reproductive system in large and small animals in the animal field.</b></li> <li><b>3- Assigning the student to write reports related to the course topics.</b></li> <li><b>4- Displaying pictures and films of obstetric maneuvers through the data show device</b></li> </ol>

**10. Structure of Female Fertility**

Week	Hours	Required learning Outcomes	Unit or subject name	Learning method	Evaluation method
First	4	<i>Introduction to immune system Innate (Nonspecific)</i>	<i>immunology</i>	Lecture	Exam
second	4	<i>Specific immune response( adaptive immune)</i>	<i>immunology</i>	Lecture	Exam
Third	4	Antigen and CD marker	<i>immunology</i>	Lecture	Exam
Fourth	4	B cell development	<i>immunology</i>	Lecture	Exam
Fifth	4	<i>T cell development</i>	<i>immunology</i>	Lecture	Exam
sixth	4	Complement	<i>immunology</i>	Lecture	Exam
Seventh	4	Cytokines	<i>immunology</i>	Lecture	Exam
Eighth	4	<i>MHC immune system</i>	<i>immunology</i>	Lecture	Exam
Ninth	4	1 <sup>st</sup> exam.	<i>immunology</i>	Lecture	Exam
Tenth	4	<i>Infection and diseases</i>	<i>immunology</i>	Lecture	Exam
Eleventh	4	Tumor immunology	<i>immunology</i>	Lecture	Exam
Twelvish	4	<i>2<sup>nd</sup> exam</i>	<i>immunology</i>	Lecture	Exam
Thirteenth	4	hypersensitivity reaction	<i>immunology</i>	Lecture	Exam
Fourteenth	4	<i>Immunodeficiency diseases</i>	<i>immunology</i>	Lecture	Exam
Fifteenth	2	<i>Vaccines</i>	<i>immunology</i>	Lecture	Exam

**11-Course Evaluation**

- 1.Preparing class and homework assignments
- .2Preparing reports on practical experiments
- .3Conducting daily and quarterly examinations
- .4Conducting final exams

**12-Learning and Teaching Resources**

Required textbooks (methodology, if any)

- 
- Veterinary medicine. 10th Ed  
*Textbook of Veterinary immunology*

Main references/sources

- Veterinary immunology 2018

Recommended supporting books and

- Veterinary medical journals issued by

references (scientific journals, reports....)	<b>Iraqi veterinary medical colleges.</b> <b>-Arab and international medical journals</b>
Electronic references, websites	<i>Research gate , Google Schooler</i> <a href="http://www.iasj.net">http://www.iasj.net</a>

**Ministry of Higher Education and Scientific Research**

**Supervision and Scientific Evaluation Agency**

**Quality Assurance and Academic Accreditation department**

**Accreditation Department**

**Academic program  
and course  
description guide**

**2024**

## **Academic program description form**

University name: **Diyala.**

College/Institute: **College of Veterinary Medicine.**

Scientific Department: **Pathology and poultry diseases.**

Name of the academic or professional program: **Bachelor's degree.**

Name of final degree: **Bachelor of Veterinary Medicine and Surgery.**

Study system: **semester.**

Description preparation date: **2024**

Date of filling the file: **9/5/2024**

**signature:**

**Name of department head:**

**Date:**

**signature:**

**Name of Scientific**

**Check the file by**

**Quality Assurance and Academic Accreditation department**

**Name of Head of Quality Assurance and Academic Accreditation  
department:**

**Date**

**Signature**

### **Authentication of the Dean**

<b>1. Program vision</b>
Excellence and creativity in the field of veterinary science in accordance with international standards and leadership in veterinary education and scientific research to ensure the public health and the development of livestock with a cleaner environment.

<b>Program message</b>
Preparing graduates of veterinarians and scientific talents specialized in veterinary medicine and surgery to contribute to protecting from diseases, diagnosing and



treating their diseases, and preserving and developing livestock, as well as combating common diseases and environmental pollution.

### 1.Aims of program

- 1- Identifying the most important diseases in Iraq.
- 2-Identifying the pathogenesis.
- 3- Identify the most important of clinical signs.
- 4-Diagnosis of diseases by using the histopathology changes.

### 1. Program accreditation

Theoretical and practice lectures.

### 1. Other external influences

Veterinary hospital, library, Internet

### 6. Program structure

Notes *	Percentasge	Units	Course	Program structure
	100	6	2	Enterprise requirements

	100	6	2	College requirements
	100	6	2	Department requirements
		not found		Summer training
				others

\* ممكن ان تتضمن الملاحظات فيما اذا كان المقرر أساسي او اختياري .

7. Program discretion				
Hours		Course name	Course symbol	Year / level
practical	theoretical	pathology		3 <sup>rd</sup> /2024
3	3			

8. Expected learning outcomes of the programmed	
Knowledge/introducing students to the principles of poultry diseases	
learning outcomes statement	learning outcomes
<b>Skills</b> 1- The ability of the graduate to be a veterinarian qualified to diagnose various diseases 2- To be experience with the use of lab. Diagnosis.	
learning outcomes statement	learning outcomes
learning outcomes statement	learning outcomes
Values / Gaining the ability to deal with and treat animals	

learning outcomes statement	learning outcomes
learning outcomes statement	learning outcomes

<b>9. Teaching and learning strategies</b>
<p>Giving theoretical lectures</p> <p>Special practical laboratories to gain skills</p> <p>Weekly seminars and discussions.</p>

<b>10. Methods of Evaluation</b>
<p>1- Conducting oral and written tests, daily and monthly.</p> <p>2- Student participation and interaction in the classroom.</p> <p>3- Performing assigned activities and duties</p>

<b>11. The Stuff of department</b>					
<b>Members of Staff</b>					
Numbers		Special requirements/skills (if found)	Specialization		Scientific rank
Lecturer	stuff		Special	General	

none	1			pathology	Veterinary and surgery medicine	professor
	1			pathology	Veterinary and surgery medicine	Assist. Prof.
	1			pathology	Veterinary and surgery medicine	lecture
	1			pathology	Veterinary and surgery medicine	assist. lecture

<b>Professional development</b>
<b>Orienting new faculty members</b>
Preparing seminars and introductory courses for new teachers, along with holding periodic meetings to introduce them to the work context and daily guidance, and to give ongoing advice and guidance.
<b>Professional development for faculty members</b>
Continuous learning through searching for new developments using the library and the Internet, in addition to attending seminars and discussions

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12. Acceptance standard
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<b>Admission is centralized by the Ministry of Higher Education and Scientific Research, based on the student's average in secondary school</b>
---

13. The most important sources of information about the program
---

Library of college Central library of university
---

14. Program development plan
------------------------------

- |  |
|--|
| <ul style="list-style-type: none"><li>5- Developing the scientific and administrative staff through annual evaluation that reveals strengths and weaknesses.</li><li>6- Proposing strategies, plans and executive policies to ensure quality and reliability.</li><li>7- Preparing comprehensive data and statistics about the college, its goals, departments, activities and future plans</li><li>8- Developing guidelines for methods of applying quality and academic accreditation in order to achieve the best</li></ul> |
|--|

**Program skills chart**

**Learning outcomes required from the programme**

Values	skills				Knowledge				Essential or optional	Course name	Course symb				
	4ج	3ج	2ج	1ج	4ب	3ب	2ب	1ب				4ا	3ا	2ا	1ا
													Essential	theoretical pathology	
													Essential	practice pathology	

## Course description form

Course name

**Pathology**

Course symbol

Year / semester

2023/2024

Date

9-5-2024

Available attendance forms

Mandatory attendance

Number of study hours (total)/number of units (total)

Theoretical 45 hrs + 45 hrs practical

number of units: 3 unit for theory + 1.5 unit for practice

Name of the course administrator (if more than one name is mentioned)

Prof. Dr. Ahmed J. Mohammed

Assist. Prof. Dr. Anas A. Humadi

Lecture Mohammed Abed Mahmoud

Assist. Lecture Eman A. Azawee

Aims of course

**Study the histopathological changes.**

Strategies of teaching and learning

1-Using the method of presenting on the screen, asking direct questions to the students and involving them in the lecture.

2- Conducting various modern diagnostic methods for samples received into the laboratory the practical subject lessons

3- Assigning the student to write a report on the most important diseases that are related to the course.

4- Display colorful pictures and videos of diagnostic methods.

Course structure Theoretical pathology course program / third level / first course

Evaluation method	Learning method	Unit	The outcomes	Hours	week
Exam	Lecture	General pathology	Introduction	3	1
Exam	Lecture	General pathology	Degenerative changes and necrosis	3	2



Exam	Lecture	General pathology	Degenerative changes and necrosis	3	3
Exam	Lecture	General pathology	Disturbance of pigmentation	3	4
Exam	Lecture	General pathology	Disturbance of circulation	3	5
Exam	Lecture	General pathology	Disturbance of circulation	3	6
Exam	Lecture	General pathology	Inflammation	3	7
Exam	Lecture	General pathology	Inflammation	3	8
Exam	Lecture	General pathology	Healing and repair	3	9
Exam	Lecture	General pathology	Immunopathology	3	10
Exam	Lecture	General pathology	Immunopathology	3	11
Exam	Lecture	General pathology	Immunopathology	3	12
Exam	Lecture	General pathology	Tumors	3	13
Exam	Lecture	General pathology	Tumors	3	14
Exam		General pathology	Examination	3	15

Course structure Theoretical pathology course program / third level /second course

<b>Evaluation method</b>	<b>Learning method</b>	<b>Unit</b>	<b>The outcomes</b>	<b>Hours</b>	<b>week</b>
Exam	Lecture	Systemic pathology	Diseases of respiratory system	3	1
Exam	Lecture	Systemic pathology	Diseases of respiratory system	3	2
Exam	Lecture	Systemic pathology	Diseases of respiratory system	3	3
Exam	Lecture	Systemic pathology	Diseases of cardiovascular system	3	4

Exam	Lecture	Systemic pathology	Diseases of cardiovascular system	3	5
Exam	Lecture	Systemic pathology	Diseases of hematopoietic system	3	6
Exam	Lecture	Systemic pathology	Diseases of digestive system	3	7
Exam	Lecture	Systemic pathology	Diseases of digestive system	3	8
Exam	Lecture	Systemic pathology	Diseases of digestive system	3	9
Exam	Lecture	Systemic pathology	Diseases of urinary system	3	10
Exam	Lecture	Systemic pathology	Diseases of genital system	3	11
Exam	Lecture	Systemic pathology	Diseases of musculoskeletal system	3	12
Exam	Lecture	Systemic pathology	Diseases of nervous system	3	13
Exam	Lecture	Systemic pathology	Diseases of endocrine	3	14
Exam	Lecture	Systemic pathology	Diseases of skin, eye and ear	3	15

### Course evaluation

Final exam of the course

Short quizzes

Practical, oral and clinical examinations

The activities

### Learning and teaching references

Required textbooks (methodology )

Robbins and cotran pathology basis of disease

The general references

<p>Introduction to veterinary pathology 3<sup>rd</sup> ed. Thomson's special veterinary pathology</p>	
<p>- Veterinary medical journals issued by Iraqi veterinary medical colleges. - Arab and international veterinary medical journals</p>	<p>Recommended supporting books and references (scientific journals, reports....)</p>
<p><a href="http://www.iasj.net">http://www.iasj.net</a> Iraqi academic scientific journals</p>	<p>Electronic references, Internet sites</p>

**Ministry of Higher Education and Scientific Research**

**Supervision and Scientific Evaluation Agency**

**Quality Assurance and Academic Accreditation department**

**Academic program  
and course  
description guide**

2024

## **Academic program description form**

University name: **Diyala.**

College/Institute: **College of Veterinary Medicine.**

Scientific Department: **Pathology and poultry diseases.**

Name of the academic or professional program: **Bachelor's degree.**

Name of final degree: **Bachelor of Veterinary Medicine and Surgery.**

Study system: **semester.**

Description preparation date: **2024**

Date of filling the file: **9/5/2024**

**signature:**

**Name of department head:**

**Date:**

**signature:**

**Name of Scientific**

**Check the file by**

**Quality Assurance and Academic Accreditation department**

**Name of Head of Quality Assurance and Academic Accreditation  
department:**

**Date**

**Signature**

### **Authentication of the Dean**

<b>1. Program vision</b>
Excellence and creativity in the field of veterinary science in accordance with international standards and leadership in veterinary education and scientific research to ensure the public health and the development of livestock with a cleaner environment.

<b>Program message</b>
Preparing graduates of veterinarians and scientific talents specialized in veterinary medicine and surgery to contribute to protecting from diseases, diagnosing and

treating their diseases, and preserving and developing livestock, as well as combating common diseases and environmental pollution.

### 1.Aims of program

- 1- Identifying the postmortem of diseases.
- 2-Identifying the pathogenesis.
- 3- Identify the most important of clinical signs.

### 1. Program accreditation

Theoretical and practice lectures.

### 1. Other external influences

Veterinary hospital, library, Internet

### 6. Program structure

Notes *	Percentage	Units	Course	Program structure
	<b>100</b>	<b>1 theory and 2 practice</b>	<b>2</b>	<b>Enterprise requirements</b>

	<b>100</b>	<b>1 theory and 2 practice</b>	<b>2</b>	<b>College requirements</b>
	<b>100</b>	<b>1 theory and 2 practice</b>	<b>2</b>	<b>Department requirements</b>
		<b>not found</b>		<b>Summer training</b>
				<b>others</b>

\* ممكن ان تتضمن الملاحظات فيما اذا كان المقرر أساسي او اختياري .

<b>7. Program discretion</b>				
<b>Hours</b>		<b>Course name</b>	<b>Course symbol</b>	<b>Year / level</b>
<b>practical</b>	<b>theoretical</b>	<b>Morbid anatomy</b>		<b>4<sup>th</sup> /2024</b>
<b>2</b>	<b>1</b>			

<b>8. Expected learning outcomes of the programmed</b>	
<b>Knowledge/introducing students to the principles of poultry diseases</b>	
<b>learning outcomes statement</b>	<b>learning outcomes</b>
<b>Skills</b> <b>1- The ability of the graduate to be a veterinarian qualified to diagnose various diseases.</b> <b>2- To be experience with the use of lab. diagnosis.</b>	
<b>learning outcomes statement</b>	<b>learning outcomes</b>
<b>learning outcomes statement</b>	<b>learning outcomes</b>
<b>Values / Gaining the ability to deal with and treat animals</b>	



learning outcomes statement	learning outcomes
learning outcomes statement	learning outcomes

<b>9. Teaching and learning strategies</b>
<p>Giving theoretical lectures.</p> <p>Giving practical lectures.</p> <p>Weekly seminars and discussions.</p>

<b>10. Methods of Evaluation</b>
<p>1- Conducting oral and written tests, daily and monthly.</p> <p>2- Student participation and interaction in the classroom.</p> <p>3- Performing assigned activities and duties</p>

<b>11. The Stuff of department</b>					
<b>Members of Staff</b>					
Numbers		Special requirements/skills (if found)	Specialization		Scientific rank
Lecturer	stuff		Special	General	

none	1			pathology	Veterinary and surgery medicine	professor
	1			pathology	Veterinary and surgery medicine	Assist. Prof.
	1			pathology	Veterinary and surgery medicine	lecture
	1			pathology	Veterinary and surgery medicine	assist. lecture

<b>Professional development</b>
<b>Orienting new faculty members</b>
Preparing seminars and introductory courses for new teachers, along with holding periodic meetings to introduce them to the work context and daily guidance, and to give ongoing advice and guidance.
<b>Professional development for faculty members</b>
Continuous learning through searching for new developments using the library and the Internet, in addition to attending seminars and discussions

## 12. Acceptance standard

Admission is centralized by the Ministry of Higher Education and Scientific Research, based on the student's average in secondary school.

## 13. The most important sources of information about the program

Library of college  
Central library of university

## 14. Program development plan

- 1- Developing the scientific and administrative staff through annual evaluation that reveals strengths and weaknesses.
- 2- Proposing strategies, plans and executive policies to ensure quality and reliability.
- 3- Preparing comprehensive data and statistics about the college, its goals, departments, activities and future plans
- 4- Developing guidelines for methods of applying quality and academic accreditation in order to achieve the best

**Program skills chart**

**Learning outcomes required from the programme**

3ج			skills				Knowledge				Essential or optional	Course name	Course symbol	Year
	2ج	1ج	4ب	3ب	2ب	1ب	4أ	3أ	2أ	1أ				
											Essential	theoretical morbid anatomy		3 <sup>rd</sup> /20
											Essential	practice morbid anatomy		

## Course description form

Course name

**Morbid anatomy**

Course symbol

Year / semester

2023/2024

Date

9-5-2024

Available attendance forms

Mandatory attendance

Number of study hours (total)/number of units (total)

Theoretical 15 hrs + 30 hrs practical

number of units: 1 unit for theory + 1 unit for practice

Name of the course administrator (if more than one name is mentioned)

Prof. Dr. Ahmed J. Mohammed  
 Assist. Prof. Dr. Anas A. Humadi  
 Lecture Mohammed Abed Mahmoud  
 Assist. Lecture Eman A. Azawee

Aims of course

**Study the histopathological changes.**

Strategies of teaching and learning

- 1-Using the method of presenting on the screen, asking direct questions to the students and involving them in the lecture.
- 2- Conducting various modern diagnostic methods for samples received into the laboratory the practical subject lessons
- 3- Assigning the student to write a report on the most important diseases that are related the course.
- 4- Display colorful pictures and videos of morbid anatomy.

Course structure Theoretical morbid anatomy course program / 4<sup>th</sup> level / first course

Evaluation method	Learning method	Unit	The outcomes	Hours	week
Exam	Lecture	امراض الابقار	Tuberculosis	1	1

Exam	Lecture	امراض الابقار	Leptospirosis	1	2
Exam	Lecture	امراض الابقار	Contagious bovine pleuropneumonia	1	3
Exam	Lecture	امراض الابقار	Colibacillosis and shipping fever	1	4
Exam	Lecture	امراض الابقار	Cattle plaque	1	5
Exam	Lecture	امراض الابقار	Bovine viral diarrhea	1	6
Exam	Lecture	امراض الابقار	Actinobacillosis and actinomycosis	1	7
Exam	Lecture	امراض الابقار	Theileriosis, anaplasmosis and babesiosis	1	8
Exam	Lecture	امراض الابقار	Lumpy skin disease	1	9
Exam	Lecture	امراض الابقار والاعنام	Contagious ecthyma, sheep pox	1	10
Exam	Lecture	امراض الابقار والاعنام	Foot root, black leg	1	11
Exam	Lecture	امراض الابقار والاعنام	Lamb dysentery	1	12
Exam	Lecture	امراض الابقار والاعنام	Anthrax	1	13
Exam	Lecture	امراض الابقار والاعنام	Listeriosis	1	14
Exam	Lecture	امراض الابقار والاعنام	Enterotoxaemia, black disease	1	15

Course structure Theoretical morbid anatomy course program / 4<sup>th</sup> level /second course

Evaluation method	Learning method	Unit	The outcomes	Hours	week
Exam	Lecture	Strangles	Strangles	1	1
Exam	Lecture	Glanders	Glanders	1	2

Exam	Lecture	Shigellosis, epizootic lymphangitis	Shigellosis, epizootic lymphangitis	1	3
Exam	Lecture	Ulcerative lymphangitis	Ulcerative lymphangitis	1	4
Exam	Lecture	Equine infectious anemia	Equine infectious anemia	1	5
Exam	Lecture	Equine influenza	Equine influenza	1	6
Exam	Lecture	Canine and feline diseases	Rabies	1	7
Exam	Lecture	Canine and feline diseases	Rabies	1	8
Exam	Lecture	Canine and feline diseases	Canine distemper	1	9
Exam	Lecture	Canine and feline diseases	Canine distemper	1	10
Exam	Lecture	Canine and feline diseases	Canine viral hepatitis	1	11
Exam	Lecture	Canine and feline diseases	Feline parvo virus	1	12
Exam	Lecture	Lab. animal diseases	Tyzzer's disease	1	13
Exam	Lecture	Lab. animal diseases	Coccidiosis in rabbit	1	14
Exam	Lecture	Lab. animal diseases	External parasite	1	15

#### Course evaluation

Final exam of the course

Short quizzes

Practical examinations

The activities

#### Learning and teaching references

Required textbooks (methodology )



<p>Pathology and post mortem examination</p> <p>Postmortem inspection</p>	The general references
<ul style="list-style-type: none"> <li>- Veterinary medical journals issued by Iraqi veterinary medical colleges.</li> <li>- Arab and international veterinary medical journals</li> </ul>	Recommended supporting books and references (scientific journals, reports....)
<p><a href="http://www.iasj.net">http://www.iasj.net</a> Iraqi academic scientific journals</p>	Electronic references, Internet sites

**Ministry of Higher Education and Scientific Research**

**Supervision and Scientific Evaluation Agency  
Quality Assurance and Academic Accreditation department**

**Accreditation Department**

**Academic program  
and course  
description guide**

**2024**

## **Introduction :**

**The educational program is very important to provide students of colleges of veterinary medicine with a wide range of courses that include procedures and experiences, the ability to diagnose fish diseases, organized in the form of a study vocabulary, the main purpose of which is to build and refine the skills of graduates who will be a mainstay of food security and public health for fish and humans alike. During the knowledge and alerting of breeders and the veterinary community about diseases specific to fish as a whole or common diseases, which makes them qualified to meet the requirements of the labor market, it is reviewed and evaluated annually through internal audit procedures and programs and evaluation of the student's clinical experience with the mentioned diseases or external ones such as the external examiner program.**

**The description of the academic program provides a brief summary of the main features of the program and its courses, indicating the skills that students are working to acquire based on the objectives of the academic program. The importance of this description is evident because it represents the cornerstone of obtaining program accreditation, and the teaching staff participates in writing it under the supervision of the scientific committees in the scientific departments.**

**This guide, in its second edition, includes a description of the academic program after updating the vocabulary and paragraphs of the previous guide in light of the latest developments in the educational system in Iraq, which included a description of the academic program in its traditional form (annual, quarterly), in addition to adopting the description of the academic program circulated according to the book of the Department of Studies 3/2906. On 5/3/2023 with regard to programs that adopt the Bologna Process as a basis for their work.**

### **Concepts and terminology:**

**Description of the academic program:** The educational program contains a complete description of the diseases that affect fish, practical examinations, and field tests for students in the final stages of study in the college.

**Course Description:** Provides a necessary summary of the most important characteristics of the course and the learning outcomes that the student is expected to achieve, demonstrating whether he or she has made the most of the available learning opportunities.

**Program vision:** To give the student in the final stage an ambitious picture of the future of the academic program with regard to this specialization.

**The program's mission:** Empowering the future veterinarian and defining the goals and activities necessary to achieve them in a concise way. It also defines the program's development paths and directions.

**Program objectives:** These are statements that describe what the academic program intends to achieve within a specific period of time and are measurable and observable.

**Curriculum structure:** All courses/study subjects included in the academic program according to the approved learning system (semester, Bologna track), whether it is a requirement (ministry, university, college, or scientific department), along with the number of study units.

**Learning outcomes:** A consistent set of knowledge, skills, and values that the student has acquired after the successful completion of the academic program. The learning outcomes for each course must be determined in a way that achieves the program objectives.

**Teaching and learning strategies:** They are the strategies used by the faculty member to develop the student's teaching and learning, and they are plans that are followed to reach the learning goals. That is, it describes all curricular and extracurricular activities to achieve the learning outcomes of the programme.

## **Academic program description form**

**University name: Diyala University..Diyala.....**

**College/Institute: College of Veterinary Medicine.....**

**Scientific Department: Branch of diseases and diseases of poultry and fish.....Poultry diseases.....**

**Name of the academic or professional program: Bachelor's degree.....**

**Name of final degree: Bachelor of Veterinary Medicine and Surgery.....**

**Study system: semester, Bologna track**

**Description preparation date: 2024**

**Date of filling the file: 12/5/2024**

**Signature:**

**Name of Scientific assistant:**

**Date:**

**Check the file by**

**Quality Assurance and Academic Accreditation  
department**

**Name of Head of Quality Assurance and  
Academic Accreditation department:**

**Date**

**Signature**



## Authentication of the Dean

### 1. Program vision

Excellence and creativity in the field of veterinary science in accordance with international standards and leadership in veterinary education and scientific research to ensure the health of fish and the development of livestock with a cleaner environment.

### Program message

Preparing graduates of veterinarians and scientific talents specialized in veterinary medicine and surgery to contribute to protecting fish from diseases, diagnosing and treating their diseases, and preserving and developing livestock, as well as combating common diseases and environmental pollution.

### 1.Aims of program

- 1- Identifying the most important fish diseases in Iraq and neighboring countries, treating them, and vaccinating fields against them.
- 2-Identifying the methods of transmission and infection of the causative agent.

3- Identify the most important clinical signs

4-Learn about methods of diagnosing and treating medical conditions

1. Program accreditation

Theoretical lectures and cases received from the outpatient clinic of fish.

1. Other external influences

Veterinary hospital, library, Internet

1. Program structure

Notes *	Percentage	Units	Course	Program structure
Essential	100	3	1	Enterprise requirements
Essential	100	3	1	College requirements
Essential	100	3	1	Department requirements
				Summer training
				others

\* ممكن ان تتضمن الملاحظات فيما اذا كان المقرر أساسي او اختياري .

Program discretion				
Hours		Course name	Course symbol	Year / level
practical	theoretical			
2	2	Fish diseases		5 <sup>th</sup> /2024

2. Teaching and learning strategies
<p>Giving theoretical lectures</p> <p>Special practical laboratories to gain skills.</p> <p>Weekly seminars and discussions.</p>

<b>Expected learning outcomes of the programme</b>	
<b>Knowledge/introducing students to the principles of fish diseases</b>	
<b>learning outcomes statement</b>	<b>learning outcomes</b>
<b>Skills</b> <b>1- The ability of the graduate to be a veterinarian qualified to diagnose various fish diseases.</b> <b>2- To be familiar with the use of examining dead and live fish to diagnose diseases of fish .</b>	
<b>learning outcomes statement</b>	<b>learning outcomes</b>
<b>learning outcomes statement</b>	<b>learning outcomes</b>

<b>Values / Gaining the ability to deal with and treat animals</b>	
<b>learning outcomes statement</b>	<b>learning outcomes</b>
<b>learning outcomes statement</b>	<b>learning outcomes</b>

<b>Methods of Evaluation</b>
<p>1– Conducting oral and written tests, daily and monthly.</p> <p>2– Student participation and interaction in the classroom.</p>

Performing assigned activities and duties

**The Staff of department**

**Members of Staff**

Numbers		Special requirements/skills (if found)		Specialization		Scientific rank
Lecturer	stuff			Special	General	
none	1			Fish diseases	Veterinary and surgery medicine	Assistant proff.
	1			Fish diseases	Veterinary and surgery medicine	Lecturer

**Professional development**

**Orienting new faculty members**

Preparing seminars and introductory courses for new teachers, along with holding periodic meetings to introduce them to the work context and daily guidance, and to give ongoing advice and guidance.

**Professional development for faculty members**

Continuous learning through searching for new developments using the library and the Internet, in addition to attending seminars and discussions

**Acceptance standard**

Admission is centralized by the Ministry of Higher Education and Scientific Research, based on the student's average in secondary school

**The most important sources of information about the program**

Library of college and university

**Program development plan**

Developing the scientific and administrative staff through annual evaluation that reveals strengths and weaknesses

Proposing strategies, plans and executive policies to ensure quality and reliability

Preparing comprehensive data and statistics about the college, its goals, departments, activities and future plans

Developing guidelines for methods of applying quality and academic accreditation in order to achieve the best



**Program skills chart**

**Learning outcomes required from the programme**

Values				skills				Knowledge				Essential or optional	Course name	Course symbol	Year / level
4 <sub>ع</sub>	3 <sub>ع</sub>	2 <sub>ع</sub>	1 <sub>ع</sub>	4 <sub>ب</sub>	3 <sub>ب</sub>	2 <sub>ب</sub>	1 <sub>ب</sub>	4 <sub>ا</sub>	3 <sub>ا</sub>	2 <sub>ا</sub>	1 <sub>ا</sub>				

													<b>Essential</b>	<b>Clinic of fish diseases</b>		<b>5<sup>th</sup> /2024</b>
													<b>Essential</b>	<b>Clinic of fish diseases</b>		



## Course description form

Course name	
<b>fish diseases</b>	
Course symbol	
Year / semester	
2023/2024	
Date	
2024	
Available attendance forms	
Mandatory attendance	
Number of study hours (total)/number of units (total)	
Theoretical + practical hours/number of units	
Name of the course administrator (if more than one name is mentioned)	
Eqbal Salman Najem Sabah Mahmoud	E-mail : aqbal.s@uodiyala.edu.iq
Aims of course	
That the student acquires the ability to diagnose fish diseases	General aims

- The student must have knowledge of analyzing samples, whether dead or live fish.
- The student's skill in using the equipment used in diagnosis, such as the microscope and the ELISA device
- The student's skill in collecting samples and recording case data and medical case histories

Strategies of teaching and learning

- 1-Using the method of presenting on the screen, asking direct questions the students and involving them in the lecture. **Strategy**
- 2- Conducting various modern diagnostic methods for samples received into the laboratory in the practical subject lessons
- 3- Assigning the student to write a report on the most important fish diseases in Iraq that are related to the course.
- 4- Display colorful pictures and videos of diagnostic methods.

Course structure Theoretical fish pathology course program / fifth level / first course

Evaluation method	Learning method	Unit	The outcomes	Hours	week
Exam	Lecture	Introduction of Ichthyology and fish Pathology		2	1
		Introduction of Ichthyology and fish Pathology			

Exam	Lecture	Prevention and health control Prevention and health control		2		2
Exam	Lecture	Prevention and health control Prevention and health control		2		3
Exam	Lecture	Infectious disease Infectious disease		2		4
Exam	Lecture	Infectious disease Infectious disease		2		5
Exam	Lecture	Infectious disease Infectious disease		2		6
Exam	Lecture	Infectious disease Infectious disease		2		7
Exam	Lecture	Parasitic disease Parasitic disease		2		8
Exam	Lecture	Parasitic disease Parasitic disease		2		9
Exam	Lecture	Parasitic disease Parasitic disease		2		10
Exam	Lecture	Parasitic disease Parasitic disease		2		11
Exam	Lecture	Parasitic disease Parasitic disease		2		12
Exam	Lecture	Non infectious diseases Non infectious diseases		2		13



Course evaluation	
Final exam of the course Short quizzes Practical, oral and clinical examinations the activities	
Learning and teaching references	
<b>Diseases of fish for Kalefa Ahmmed Kalefa</b>	Required textbooks (methodology )
<b>Diseases of carp and other cyprinids</b> <b>Fish pathology</b> Internet	The general references
- Veterinary medical journals issued by Iraq veterinary medical colleges. Arab and international medical journals	Recommended supporting books and references (scientific journals, reports ...)
	Electronic references, Internet sites

**Supervision and Scientific Evaluation Agency**  
**Quality Assurance and Academic Accreditation department**

**Accreditation Department**



# **Academic program and course description guide**

**2024**

## **Introduction :**

**The educational program is very important to provide students of colleges of veterinary medicine with a wide range of courses that include procedures and experiences, the ability to diagnose poultry diseases, organized in the form of a study vocabulary, the main purpose of which is to build and refine the skills of graduates who will be a mainstay of food security and public health for poultry birds and humans alike. During the knowledge and alerting of breeders and the veterinary community about diseases specific to poultry birds as a whole or common diseases, which makes them qualified to meet the requirements of the labor market, it is reviewed and evaluated annually through internal audit procedures and programs and evaluation of the student's clinical experience with the mentioned diseases or external ones such as the external examiner program.**

**The description of the academic program provides a brief summary of the main features of the program and its courses, indicating the skills that students are working to acquire based on the objectives of the academic program. The importance of this description is evident because it represents the cornerstone of obtaining program accreditation, and the teaching staff participates in writing it under the supervision of the scientific committees in the scientific departments.**

**This guide, in its second edition, includes a description of the academic program after updating the vocabulary and paragraphs of the previous guide in light of the latest developments in the educational system in Iraq, which included a description of the academic program in its traditional form (annual, quarterly), in addition to adopting the description of the academic program circulated according to the book of the Department of Studies 3/2906. On 5/3/2023 with regard to programs that adopt the Bologna Process as a basis for their work.**

### **Concepts and terminology:**

**Description of the academic program:** The educational program contains a complete description of the diseases that affect poultry birds, visits, practical examinations, and field tests for students in the final stages of study in the college.

**Course Description:** Provides a necessary summary of the most important characteristics of the course and the learning outcomes that the student is expected to achieve, demonstrating whether he or she has made the most of the available learning opportunities.

**Program vision:** To give the student in the final stage an ambitious picture of the future of the academic program with regard to this specialization.

**The program's mission:** Empowering the future veterinarian and defining the goals and activities necessary to achieve them in a concise way. It also defines the program's development paths and directions.

**Program objectives:** These are statements that describe what the academic program intends to achieve within a specific period of time and are measurable and observable.

**Curriculum structure:** All courses/study subjects included in the academic program according to the approved learning system (semester, Bologna track), whether it is a requirement (ministry, university, college, or scientific department), along with the number of study units.

**Learning outcomes:** A consistent set of knowledge, skills, and values that the student has acquired after the successful completion of the academic program. The learning outcomes for each course must be determined in a way that achieves the program objectives.

**Teaching and learning strategies:** They are the strategies used by the faculty member to develop the student's teaching and learning, and they are plans that are followed to reach the learning goals. That is, it describes all curricular and extracurricular activities to achieve the learning outcomes of the programme.

### **Academic program description form**

**University name:** Diyala University..Diyala.....

**College/Institute:** College of Veterinary Medicine.....

**Scientific Department: Branch of diseases and diseases of poultry and fish.....Poultry diseases.....**

**Name of the academic or professional program: Bachelor's degree.....**

**Signature:**

**Name of Scientific assistant:**

**Date:**

**Name of final degree: Bachelor of Veterinary Medicine and Surgery.....**

**Study system: semester, Bologna track**

**Description preparation date: 2024**

**Date of filling the file: 5/9/2024**

**signature:**

**Name of department head:**

**Date:**

**Check the file by**

**Quality Assurance and Academic Accreditation  
department**

**Name of Head of Quality Assurance and  
Academic Accreditation department:**

**Date**

**Signature**

**Authentication of the Dean**

**1. Program vision**

Excellence and creativity in the field of veterinary science in accordance with international standards and leadership in veterinary education and scientific research to ensure the health of poultry and the development of livestock with a cleaner environment.

**Program message**

Preparing graduates of veterinarians and scientific talents specialized in veterinary medicine and surgery to contribute to protecting poultry birds from diseases,

diagnosing and treating their diseases, and preserving and developing livestock, as well as combating common diseases and environmental pollution.

### 1.Aims of program

- 1- Identifying the most important poultry diseases in Iraq and neighboring countries, treating them, and vaccinating fields against them.
- 2-Identifying the methods of transmission and infection of the causative agent.
- 3- Identify the most important clinical signs
- 4-Learn about methods of diagnosing and treating medical conditions

### 1. Program accreditation

Theoretical lectures and cases received from the outpatient clinic of birds, broiler chickens and layers

### 1. Other external influences

Veterinary hospital, library, Internet

### 1. Program structure

Notes *	Percentasge	Units	Course	Program structure
	100	4	2	Enterprise requirements
	100	4	2	College requirements
	100	4	2	Department requirements
		Veterinary hospital		Summer training
				others

\* ممكن ان تتضمن الملاحظات فيما اذا كان المقرر أساسي او اختياري .

Program discretion				
Hours		Course name	Course symbol	Year / level
practical	theoretical	Poultry diseases		4 <sup>th</sup> /2024
2	2			
4		Clinic of poultry disease		5 <sup>th</sup> /2024



## 2. Teaching and learning strategies

Giving theoretical lectures

Special practical laboratories to gain skills

Practical and clinical application in health centers and hospitals

Weekly seminars and discussions.

### Expected learning outcomes of the programme

Knowledge/introducing students to the principles of poultry diseases

learning outcomes statement

learning outcomes

Skills

**1– The ability of the graduate to be a veterinarian qualified to diagnose various poultry diseases**

**2– To be familiar with the use of examining dead birds and live birds to diagnose diseases of chickens in particular and birds in general.**

**learning outcomes statement**

**learning outcomes**

**learning outcomes statement**

**learning outcomes**

**Values / Gaining the ability to deal with and treat animals**

**learning outcomes statement**

**learning outcomes**

**learning outcomes statement**

**learning outcomes**

**Methods of Evaluation**

- 1- Conducting oral and written tests, daily and monthly.
  - 2- Student participation and interaction in the classroom.
- Performing assigned activities and duties

**The Stuff of department**

**Members of Staff**

Numbers		Special requirements/skills (if found)		Specialization		Scientific rank
Lecturer	stuff			Special	General	
none	1			Poultry diseases	Veterinary and surgery medicine	Assistant proff.
	2			Poultry diseases		Lecturer
	1			Poultry diseases	Veterinary and surgery medicine	Assistant lecture

					Veterinary and surgery medicine	
--	--	--	--	--	---------------------------------	--

<b>Professional development</b>
<b>Orienting new faculty members</b>
Preparing seminars and introductory courses for new teachers, along with holding periodic meetings to introduce them to the work context and daily guidance, and to give ongoing advice and guidance.
<b>Professional development for faculty members</b>
Continuous learning through searching for new developments using the library and the Internet, in addition to attending seminars and discussions

<b>Acceptance standard</b>
Admission is centralized by the Ministry of Higher Education and Scientific Research, based on the student's average in secondary school

The most important sources of information about the program

Library of college and university

Program development plan

Developing the scientific and administrative staff through annual evaluation that reveals strengths and weaknesses

Proposing strategies, plans and executive policies to ensure quality and reliability

Preparing comprehensive data and statistics about the college, its goals, departments, activities and future plans

Developing guidelines for methods of applying quality and academic accreditation in order to achieve the best

### Program skills chart

Learning outcomes required from the programme												Essential or optional	Course name	Course symbol	Year / level
Values				skills				Knowledge							
4 <sub>ع</sub>	3 <sub>ع</sub>	2 <sub>ع</sub>	1 <sub>ع</sub>	4 <sub>ب</sub>	3 <sub>ب</sub>	2 <sub>ب</sub>	1 <sub>ب</sub>	4 <sub>ا</sub>	3 <sub>ا</sub>	2 <sub>ا</sub>	1 <sub>ا</sub>				
												Essential	Poultry diseases		4 <sup>th</sup> /2024
												Essential	Poultry diseases		
												Essential	Poultry diseases		4 <sup>th</sup> /2024
												Essential	Poultry diseases		

												<b>Essential</b>	<b>Poultry diseases</b>		<b>4<sup>th</sup> /2024</b>
												<b>Essential</b>	<b>Poultry diseases</b>		
												<b>Essential</b>	<b>Clinic of Poultry diseases</b>		<b>5<sup>th</sup> /2024</b>
												<b>Essential</b>	<b>Clinic of Poultry diseases</b>		





## Course description form

Course name

**Poultry diseases**

Course symbol

Year / semester

2023/2024

Date

2024

Available attendance forms

Mandatory attendance

Number of study hours (total)/number of units (total)

Theoretical + practical hours/number of units

Name of the course administrator (if more than one name is mentioned)

Aws El-muntaser H. Ali

E-mail : aws.a@uodiyala.edu.iq

Basim M. Manswr

E-mail: basim.m@uodiyala.edu.iq

Akram A. Hassan

E-mail: akram.a@uodiyala.edu.iq

Aims of course

<p><b>That the student acquires the ability to diagnose poultry diseases.</b></p> <ul style="list-style-type: none"> <li>- <b>The student must have knowledge of analyzing samples, whether dead or live birds</b></li> <li>-<b>The student's skill in using the equipment used in diagnosis, such as the microscope and the ELISA device</b></li> <li>-<b>The student's skill in collecting samples and recording case data and medical case histories</b></li> </ul>	<p><b>General aims</b></p>
--	----------------------------

**Strategies of teaching and learning**

<ol style="list-style-type: none"> <li>1-Using the method of presenting on the screen, asking direct questions the students and involving them in the lecture.</li> <li>2- Conducting various modern diagnostic methods for samples received into the laboratory in the practical subject lessons</li> <li>3- Assigning the student to write a report on the most important poultry diseases in Iraq that are related to the course.</li> <li>4- Display colorful pictures and videos of diagnostic methods.</li> </ol>	<p><b>Strategy</b></p>
---	------------------------

**Course structure Theoretical poultry pathology course program / fourth level / first course**

<b>Evaluation method</b>	<b>Learning method</b>	<b>Unit</b>	<b>The outcomes</b>	<b>Hours</b>	<b>week</b>
Exam	Lecture	Chickens breeds	General Introduction	2	1
Exam	Lecture	Vitamin A	Nutritional problems	2	2
Exam	Lecture	VITAMIN B GROUPS	Nutritional problems	2	3

Exam	Lecture	VITAMIN B GROUPS	Nutritional problems	2	4
Exam	Lecture	VITAMIN E	Nutritional problems	2	5
Exam	Lecture	VITAMIN D	Nutritional problems	2	6
Exam	Lecture	VITAMIN C AND K	Nutritional problems	2	7
Exam	Lecture	AVIAN SALMONELLOSIS	BACTERIAL DISEASES	2	8
Exam	Lecture	COLBACILLOSIS	BACTERIAL DISEASES	2	9
Exam	Lecture	STAPH. AUREUS	BACTERIAL DISEASES	2	10
Exam	Lecture	STREPTOCOCCUS	BACTERIAL DISEASES	2	11
Exam	Lecture	FOWL CHOLERA AN INFECTIOS CORYZA	BACTERIAL DISEASES	2	12
Exam	Lecture	CLOSREDIAL DISEASES	BACTERIAL DISEASES	2	13
Exam	Lecture	SPIROCHETOSIS	BACTERIAL DISEASES	2	14
Exam	Lecture	COCCIDIOSIS	PROTOZOAL DISESAES	2	15
Exam	Lecture	TRICHOMONIASIS	PROTOZOAL DISESAES	2	16

Course structure Theoretical poultry pathology course program / fourth level /second course

Evaluation method	Learning method	Unit	The outcomes	Hours	week
Exam	Lecture	NEWCASTLE DISEASE	VIRAL DISEASES	2	1
Exam	Lecture	AVIAN INFLUNZA	VIRAL DISEASES	2	2
Exam	Lecture	GUMBORO DISEASE	VIRAL DISEASES	2	3
Exam	Lecture	INFECTIOUS BRONCHITIS	VIRAL DISEASES	2	4

Exam	Lecture	CHICKEN INFECTIOUS ANEMIA	VIRAL DISEASES	2	5
Exam	Lecture	EGG DROP SYNDROM	VIRAL DISEASES	2	6
Exam	Lecture	INFECTIOUS STUNTING SYNDROM	VIRAL DISEASES	2	7
Exam	Lecture	VIRAL ARTHRITIS	VIRAL DISEASES	2	8
Exam	Lecture	NEOPLASTIC DISEASES	VIRAL DISEASES	2	9
Exam	Lecture	NEOPLASTIC DISEASES	VIRAL DISEASES	2	10
Exam	Lecture	NEOPLASTIC DISEASES	VIRAL DISEASES	2	11
Exam	Lecture	ASPERGELLOSIS	FUNGAL DISEASE	2	12
Exam	Lecture	CANDIDIASIS	FUNGAL DISEASE	2	13
Exam	Lecture	MYCOTOXICOSIS	FUNGAL DISEASE	2	14
Exam	Lecture	NONINFECTIOUS DISEASES	NONINFECTIOUS DISEASES	2	15

#### Course evaluation

Final exam of the course

Short quizzes

Practical, oral and clinical examinations

the activities

#### Learning and teaching references

**Diseases of Poultry(12th Edition)**

Required textbooks (methodology )

Diseases of poultry for fuad al-sheekhli

The general references

<p>- Veterinary medical journals issued by Iraq and veterinary medical colleges.</p> <p>Arab and international medical journals</p>	<p>Recommended supporting books and references (scientific journals, reports....)</p>
<p><a href="http://www.iasj.net">http://www.iasj.net</a> Iraqi academic scientific journals</p>	<p>Electronic references, Internet sites</p>



**Ministry of Higher Education and Scientific Research**

**Scientific supervision and evaluation device**

**Department of Quality Assurance and Academic Accreditation**

**Accreditation Department**

**Academic program and  
course description guide for  
the internal medicine  
branch of study**

2024

## Introduction:

The educational program is considered a coordinated and organized package of academic courses that include procedures and experiences organized in the form of academic vocabulary, the main purpose of which is to build and refine the skills of graduates, making them qualified to meet the requirements of the labor market. It is reviewed and evaluated annually through internal or external audit procedures and programs such as the external examiner program.

The description of the academic program provides a brief summary of the main features of the program and its courses, indicating the skills that students are working to acquire based on the objectives of the academic program. The importance of this description is evident because it represents the cornerstone of obtaining program accreditation, and the teaching staff



participates in writing it under the supervision of the scientific committees in the scientific departments.

This guide, in its second edition, includes a description of the academic program after updating the vocabulary and paragraphs of the previous guide in light of the latest developments in the educational system in Iraq, which included a description of the academic program in its traditional form (annual, quarterly), in addition to adopting the description of the academic program circulated according to the book of the Department of Studies 3/2906. On 5/3/2023 with regard to programs that adopt the Bologna Process as a basis for their work.

In this area, we can only emphasize the importance of writing descriptions of academic programs and courses to ensure the smooth conduct of the educational process.

## **Concepts and terminology:**

Description of the academic program: The description of the academic program provides a brief summary of its vision, mission, and objectives, including an accurate description of the targeted learning outcomes according to specific learning strategies.

Course Description: Provides a necessary summary of the most important characteristics of the course and the learning outcomes that the student is expected to achieve, demonstrating whether he or she has made the most of the available learning opportunities. It is derived from the program description.

Program Vision: An ambitious picture for the future of the academic program to be developed, inspiring, motivating, realistic and applicable program.

The program's mission: It briefly explains the goals and activities necessary to achieve them, and also defines the program's development paths and directions.

Program objectives: These are statements that describe what the academic program intends to achieve within a specific period of time and are measurable and observable.

Curriculum structure: All courses/study subjects included in the academic program according to the approved learning system (semester, annual, Bologna track), whether it is a requirement (ministry, university, college, or scientific department), along with the number of study units.

Learning outcomes: A consistent set of knowledge, skills, and values that the student has acquired after the successful completion of the academic program. The learning outcomes for each course must be determined in a way that achieves the program objectives.

Teaching and learning strategies: They are the strategies used by the faculty member to develop the student's teaching and learning, and they are plans that are followed to reach the learning goals. That is, it describes all curricular and extracurricular activities to achieve the learning outcomes of the programme.

## **Academic program description form**

University name: Diyala University

College/Institute: College of Veterinary Medicine

Scientific Department: Department of Internal Medicine

Name of the academic or professional program: Bachelor of Veterinary  
Medicine

Name of final degree: Bachelor of Veterinary Medicine and Surgery

Study system: semester/courses

Description preparation date: 2024

Date of filling the file: 9/1/2023

### **7. Program vision**

After graduation our students will be able to work in a multidisciplinary team in the veterinary health sector.

To ensure optimal team performance and effective results in treating medical cases.

## **2. Program message**

Our college seeks to obtain international accreditation and rise to the global level in terms of quality of outputs and graduation highly qualified veterinarians in caring for field and pet animals, and serving the community.

## **3. objectives of the program**

- Achieving quality standards based on scientific institutional quality standards.
- Graduating veterinarians with a bachelor's degree in veterinary medicine and surgery, who are able to conduct and examine
- Disease cases, diagnosing the disease and providing treatment on scientific basis.
- After graduation, our students will be able to work in a multidisciplinary team in the health and wealth sector. Animals to ensure optimal team performance and effective results for the safety of society and field animals.
- Preparing veterinarians capable of interacting in the workplace and solving urgent problems in the livestock sector.
- Graduating doctors with high skills and knowledge in conducting scientific research in various specialized fields.

- Encouraging faculty members, staff, and students to enhance their technical skills and benefit from modern technologies in transferring knowledge, producing scientific research, and creating curricula for educational programs.
- Implementing a development program for faculty and staff.

#### 4. Program accreditation

The application process has begun

#### 5. Other external influences

Veterinary hospital, library, Internet, community, Doctors Syndicate

#### 6. Program structure

Program structure	percentage	Credit hours	Number of Courses	Reviews
	100%		9	Institution Requirements
	100%		9	College Requirements
	100%		9	Department Requirements

				<b>Summer Training</b>
	.....	.....	.....	<b>Other</b>

\*Notes may include whether the course is basic or elective.

<b>7. Program description</b>				
<b>Credit hours</b>		<b>Name of the course or course</b>	<b>Course or course code</b>	<b>Year/level</b>
<b>practical</b>	<b>theoretical</b>			
<b>30 hours</b>		<b>Veterinary application</b>		<b>the third</b>
<b>120 hours</b> <b>60 hours</b>	<b>90 hours</b>	<b>Internal medicine</b>		<b>the fourth</b>
	<b>90 hours</b>	<b>Infectious diseases</b>		
		<b>Clinic</b>		
	<b>30 hours</b>	<b>Pathological diagnoses</b>		
	<b>15 hours</b>	<b>Epidemiological</b>		
	<b>30 hours</b>	<b>zoonotic diseases</b>		
<b>120 hours</b>	<b>90 hours</b>	<b>Internal medicine</b>		<b>Fifth</b>
		<b>Clinic</b>		
	<b>15 hours</b>	<b>Research methods</b>		

## 8. Expected learning outcomes of the program

### Knowledge

1. Learning Outcomes 1 Study of various internal diseases, especially common ones or emergency cases that the veterinarian may face.

-2 Identifying medical conditions and methods of treating them.

-3 Understanding the veterinary pathological interactions between internal diseases and diseases in other branches

-4 Knowing ways to prevent some diseases

-5 Identifying the legal responsibilities for some diseases, especially transmissible ones

### Statement of learning outcomes

### Skills

1. Take an accurate medical history, especially for infectious diseases
2. The correct methods for measuring and reading clinical conditions
3. Clinical skills in examining animals

### Value

- 1- Developing expertise by dealing with transitional situations
- 2- Recognizing professional responsibility in dealing with communicable diseases
- 3- Using modern methods in treating medical conditions

## 9. Teaching and learning strategies

1. Theoretical lectures using illustrations (interactive whiteboard and data show(



2. Practical application of concepts studied in laboratories and the veterinary hospital.
3. Seminars (students are assigned a topic within the curriculum for presentation and discussion)
4. Solving scientific problems by discussing them within small groups to reach the correct solutions
5. In-person and electronic blended learning for student activities via the e-learning platform (Classroom)

## **10. Evaluation methods**

1. Discussion within lectures
2. Mid-course exams and end-of-course exams
3. Continuous evaluation
4. Clinical groups
5. Practical exams

## **11. The teaching staff**

## Faculty members

Preparing the teaching staff		Special requirements/skills (if any)		Specialization		Scientific rank
lecturer	Basic			private	general	
nothing	√			Internal and preventive medicine	Veterinary medicine and surgery	Asisst.Prof.Dr. Raad Mahmood Hussien
nothing	√			Internal and preventive medicine	Veterinary medicine and surgery	Assist. Prof Dr. Tareq Rifaahat Minnat
nothing	√			Internal and preventive medicine	Veterinary medicine and surgery	Assist.Prof.Dr Dr. Ahmed Khalaf
nothing	√			Internal and preventive medicine	Veterinary medicine and surgery	Assist.Prof Waleed Ibraheem Jaleel
nothing	√			Internal preventive medicine	Veterinary medicine surgery	Lecturer Dr. Roaa Ad Hussien
nothing	√			zoonotic diseases	Veterinary medicine surgery	Assist lecturer Ayat Jasim Mohamed

experienced				Medicine treatment	Veterinary medicine surgery	Prof.Dr.Nazar Jabar Moslih
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### Professional development

Orienting new faculty members

Guiding new faculty members through preparing courses and seminars in addition to meetings for college councils and councils Branches and through official notifications on the official website.

### Professional development for faculty members

Continuing and permanent education through searching for developments in the library and scientific journals And the Internet, in addition to scientific seminars and seminars, and through practice in hospitals Veterinary.

## 12. Acceptance criterion

1. Central admission through the Ministry of Higher Education and Scientific Research, based on the sixth grade average, is done via an electronic form
2. Parallel acceptance channel

## 13. The most important sources of information about the program

1. University website

2. The website of the Ministry of Higher Education and Scientific Research

3- The college library and the university's central library

#### **14. Program development plan**

1. Developing academic curricula annually and updating them in line with developments in the diagnosis and treatment of diseases Esotericism
2. Developing the scientific and administrative staff in the college based on annual evaluations and diagnosing areas of weakness And strength
3. Developing senior leaders, faculty members, employees, and workers at the college

### Program skills chart

Learning outcomes required from the programme												Essential or optional	Course Name	Course Code	Year/level
values				skills				Knowledge							
C4	C3	C2	C1	B4	B3	B2	B1	A4	A3	A2	A1				
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	Veterinary application		the third
												Basic			
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	Internal medicine		the fourth
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	Infectious diseases		
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	Clinical pathology		

		✓				✓				✓		Basic	<b>Epidemiological</b>		<b>Fifth</b>
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	<b>Clinic</b>		
		✓				✓				✓		Basic	<b>Zoonotic diseases</b>		
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	<b>Internal medicine</b>		
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	<b>clinic</b>		
			✓				✓				✓	Basic	<b>Research of methods</b>		

•Please check the boxes corresponding to the individual learning outcomes from the program subject to evaluation

## Course description form

1. Course Name:	
Pathological diagnosis	
2. Course Code:	
Fourth year	
3. Semester / Year:	
First and 2 <sup>nd</sup> semester 2023-2024	
4. Description Preparation Date:	
2024	
5. Available Attendance Forms:	
Mandatory attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
90 hours	
7. Course administrator's name (mention all, if more than one name)	
Name : Asisst.Prof.Dr. Tareq Rifaht Minnat <a href="mailto:treq.r@uodiyala.edu.iq">treq.r@uodiyala.edu.iq</a> Email :	
8-Course Objective	
Course Objectives	<p>A1- Teaching the student the concept of pathological diagnoses and its general principles</p> <p>A2- Knowledge, understanding and comprehension of the scientific subject curriculum</p> <p>A3- To classify the theoretical and practical needs for the development of learning and teaching in the appropriate manner with the scientific material</p> <p>A4- Identifying pathogens that may affect animals to give the correct diagnosis of the disease state.</p> <p>B. The skills goals special to the course.</p>

	<p>B1 - Teaching the student how to make an accurate diagnosis of the disease.</p> <p>B2 - Teaching the student to use scientific methods in diagnosis.</p> <p>B 3 - Teaching the student the modern techniques used to diagnose diseases.</p>
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**9. Teaching and learning strategies**

1. lectures.  
 2. Discussions during and after the lecture.  
 3. Motivation through questions and answers.  
 4. Homework .  
 5. Preparation of scientific reports .

Assessment methods

Semester and final theory exams by 60%

2. Semester and final practical exams at a rate of 40% from it Evaluation of extracurricular activities (reports, posters and homework) by 5% and Daily exams.

**10. Course structure**

Evaluation method	Learning method	Unit or subject name	Required learning Outcomes	Hours	Week



11. Course evaluation					
Daily exams Reports preparation Mid-course exam final exam					
12 .Learning and teaching resources					
1- Fundamentals of veterinary clinical pathology ,Steven L.Stokham and Michael A.Scott ,second edition . 2- Veterinary clinical diagnosis by laboratory methods , R.S. Brar ,H.S. Sandhu and Avtar Singh . 3- Clinical pathology and laboratory techniques for veterinary technicians, ANNE M.BARGER and AMY L. MACNEILL . 4- Pathology and parasitology for veterinary			Main references (sources)		

<p>technicians , Leland S. Shapiro ,second edition .</p> <p>5- Color atlas of veterinary pathology , J.E.van Dijk ,E.Gruys and J.M.V.M.Mouwen , second edition .</p> <p>6- Manual of small animal clinical pathology , Malcolm Davidson ,Roderick Else and John Lumsden .</p>	
<p>A- Recommended books and references (scientific journals, reports...).</p>	non
<p>Veterinary medical journals issued .by Iraqi veterinary medical colleges ab and international medical journals -</p>	Recommended supporting books and references (scientific journals, reports(....
<p><a href="http://www.iasj.net">http://www.iasj.net</a> Iraqi academic scien journals</p>	Electronic references, Internet sites

### Course Structure: Pathological diagnosis /Fourth Stage/First Course

Evaluation method	Learning method	Unit or subject name	Required learning Outcomes	Hours	Week
Exam	Theoretical (1 hour) + practical Assessmnt Method	Introduction (terminology and concepts)	ا + ب + ج	3	1

	(2 hours)				
<i>Exam</i>	Theoretical (1 hour) + practical	Bone marrow and Haematopoiesis  Collection of samples	ا + ب + ج	3	2
<i>Exam</i>	Assessmnt	Erythron- physiology and morphology of RBCs. RBC counting	ا + ب + ج	3	3
<i>Exam</i>	Method	Diseases of RBCs  Haemoglobin and PCV measurement	ا + ب + ج	3	4
<i>Exam</i>	(2 hours)	Anaemia  Erythrocyte indices	ا + ب + ج	3	5
<i>Exam</i>	Theoretical (1 hour) + practical	Causes of anaemia  Abnormal RBCs	ا + ب + ج	3	6
<i>Exam</i>	Assessmnt	Kinds of anaemia  Blood film preparation and differential WBC count	ا + ب + ج + د	3	7
<i>Exam</i>	Method	Erythrocyte indices and anaemia  WBC count	ا + ب + ج + د	3	8
<i>Exam</i>	(2 hours)	Polycythemia  Abnormal WBCs	ا + ب + ج + د	3	9
<i>Exam</i>	Theoretical (1 hour) + practical	White blood cells  ESR	ا + ب + ج + د	3	10
<i>Exam</i>	Assessmnt	White blood cells	ا + ب + ج + د	3	11

		Plasma protein and fibrinogen			
<i>Exam</i>	Method	White blood cells Platelet count	ا + ب + ج + د	3	12
<i>Exam</i>	(2 hours)	Platelets (Thrombocytes) Bleeding tests	ا + ب + ج + د	3	13
<i>Exam</i>	Theoretical (1 hour) + practical	Thrombocytosis and thrombocytopenia Revision	ا + ب + ج + د	3	14
<i>Exam</i>		Laboratory tests for platelets. Examination	ا + ب + ج + د	3	15

**Course Structure: Pathological diagnosis /Fourth Stage/Second Course**

<i>Exam</i>	Theoretical (1 hour) + practical	Haemostasis Fecal examination (1)	ا + ب + ج + د	3	1
<i>Exam</i>	Theoretical (1 hour) + practical	Liver and Liver function tests (1) Fecal examination (2)	ا + ب + ج + د	3	2
<i>Exam</i>	Theoretical (1 hour) + practical	Liver and Liver function tests (2) Skin scrapings (1)	ا + ب + ج + د	3	3
<i>Exam</i>	Theoretical (1 hour) + practical	Liver and liver function tests (3) Skin scrapings(2)	ا + ب + ج + د	3	4
<i>Exam</i>	Theoretical (1 hour) + practical	Kidney and kidney function tests (1) Urine examination (1)	ا + ب + ج + د	3	5

<i>Exam</i>	Theoretical (1 hour) + practical	Kidney and kidney function tests (2) Urine ex.(2)	ا + ب + ج + د	3	6
<i>Exam</i>	Theoretical (1 hour) + practical	Kidney and kidney function tests (3) Antibiotic sensitivity test	ا + ب + ج + د	3	7
<i>Exam</i>	Theoretical (1 hour) + practical	Kidney and kidney function tests (4) Lymph smear collection and examination	ا + ب + ج + د	3	8
<i>Exam</i>	Theoretical (1 hour) + practical	Acid base balance (1) Blood parasite (1)	ا + ب + ج + د	3	9
<i>Exam</i>	Theoretical (1 hour) + practical	Acid base balance (2) Blood parasite (2)	ا + ب + ج + د	3	10
<i>Exam</i>	Theoretical (1 hour) + practical	Electrolytes and minerals (1) Mastitis and milk examination(1)	ا + ب + ج + د	3	11
<i>Exam</i>	Theoretical (1 hour) + practical	Electrolytes and minerals (2) Mastitis and milk examination (2)	ا + ب + ج + د	3	12
<i>Exam</i>	Theoretical (1 hour) + practical	Microbiology (1) Bacterial culture	ا + ب + ج + د	3	13
<i>Exam</i>	Theoretical (1 hour) + practical	Microbiology (2) Bacterial stains	ا + ب + ج + د	3	14

<i>Exam</i>	Theoretical (1 hour) + practical	Clinical parasitology Biochemical tests and media Examination	ا + ب + ج + د	3	15
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الاستاذ المساعد الدكتور  
رعد محمود حسين  
رئيس فرع الطب الباطني والوقائي

### Concepts and terminology:

Description of the academic program: The description of the academic program provides a brief summary of its vision, mission, and objectives, including

an accurate description of the targeted learning outcomes according to specific learning strategies.

**Course Description:** Provides a necessary summary of the most important characteristics of the course and the learning outcomes that the student is expected to achieve, demonstrating whether he or she has made the most of the available learning opportunities. It is derived from the program description.

**Program Vision:** An ambitious picture for the future of the academic program to be a developed, inspiring, motivating, realistic and applicable program.

**The program's mission:** It briefly explains the goals and activities necessary to achieve them, and also defines the program's development paths and directions.

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**Learning outcomes:** A consistent set of knowledge, skills, and values that the student has acquired after the successful completion of the academic program. The learning outcomes for each course must be determined in a way that achieves the program objectives.

**Teaching and learning strategies:** They are the strategies used by the faculty member to develop the student's teaching and learning, and they are plans that are

followed to reach the learning goals. That is, it describes all curricular and extracurricular activities to achieve the learning outcomes of the programme.

### **Academic program description form**

University name: Diyala University

College/Institute: College of Veterinary Medicine

Scientific Department: Department of Internal Medicine

Name of the academic or professional program: Bachelor of Veterinary  
Medicine

Name of final degree: Bachelor of Veterinary Medicine and Surgery

Study system: semester/courses

Description preparation date: 2024

Date of filling the file: 9/1/2023



## **8. Program vision**

After graduation our students will be able to work in a multidisciplinary team in the veterinary health sector.

To ensure optimal team performance and effective results in treating medical cases.

## **2. Program message**

Our college seeks to obtain international accreditation and rise to the global level in terms of quality of outputs and graduation highly qualified veterinarians in caring for field and pet animals, and serving the community.

## **3. objectives of the program**

- Achieving quality standards based on scientific institutional quality standards.
- Graduating veterinarians with a bachelor's degree in veterinary medicine and surgery, who are able to conduct and examine
- Disease cases, diagnosing the disease and providing treatment on scientific basis.
- After graduation, our students will be able to work in a multidisciplinary team in the health and wealth sector. Animals to ensure optimal team performance and effective results for the safety of society and field animals.
- Preparing veterinarians capable of interacting in the workplace and solving urgent problems in the livestock sector.
- Graduating doctors with high skills and knowledge in conducting scientific research in various specialized fields.
- Encouraging faculty members, staff, and students to enhance their technical skills and benefit from modern technologies in transferring knowledge, producing scientific research, and creating curricula for educational programs.
- Implementing a development program for faculty and staff.

#### **4. Program accreditation**

The application process has begun

#### **5. Other external influences**

Veterinary hospital, library, Internet, community, Doctors Syndicate

<b>6. Program structure</b>				
<b>Program structure</b>	<b>percentage</b>	<b>Credit hours</b>	<b>Number of Courses</b>	<b>Reviews</b>
	100%		<b>9</b>	<b>Institution Requirements</b>
	100%		<b>9</b>	<b>College Requirements</b>
	100%		<b>9</b>	<b>Department Requirements</b>
				<b>Summer Training</b>
	.....	.....	.....	<b>Other</b>

\*Notes may include whether the course is basic or elective.

<b>7. Program description</b>				
<b>Credit hours</b>		<b>Name of the course or course</b>	<b>Course or course code</b>	<b>Year/level</b>
<b>practical</b>	<b>theoretical</b>			

30 hours		Veterinary application		the third
120 hours	90 hours	Internal medicine		the fourth
60 hours	90 hours	Infectious diseases		
		Clinic		
	30 hours	Pathological diagnoses		
	15 hours	Epidemiological		
	30 hours	zoonotic diseases		
120 hours	90 hours	Internal medicine		Fifth
		Clinic		
	15 hours	Research methods		

<b>8. Expected learning outcomes of the program</b>
<b>Knowledge</b>
<p>1. Learning Outcomes 1 Study of various internal diseases, especially common ones or emergency cases that the veterinarian may face.</p> <ul style="list-style-type: none"> <li>-2 Identifying medical conditions and methods of treating them.</li> <li>-3 Understanding the veterinary pathological interactions between internal diseases and diseases in other branches</li> <li>-4 Knowing ways to prevent some diseases</li> <li>-5 Identifying the legal responsibilities for some diseases, especially transmissible ones</li> </ul> <p>Statement of learning outcomes</p>
<b>Skills</b>
<ul style="list-style-type: none"> <li>4. Take an accurate medical history, especially for infectious diseases</li> <li>5. The correct methods for measuring and reading clinical conditions</li> </ul>

**6. Clinical skills in examining animals**

**Value**

- 1- Developing expertise by dealing with transitional situations
- 2- Recognizing professional responsibility in dealing with communicable diseases
- 3-Using modern methods in treating medical conditions

**9. Teaching and learning strategies**

- 6. Theoretical lectures using illustrations (interactive whiteboard and data show)
- 7. Practical application of concepts studied in laboratories and the veterinary hospital.
- 8. Seminars (students are assigned a topic within the curriculum for presentation and discussion)
- 9. Solving scientific problems by discussing them within small groups to reach the correct solutions
- 10. In-person and electronic blended learning for student activities via the e-learning platform (Classroom)

**10. Evaluation methods**

- 6. Discussion within lectures

7. Mid-course exams and end-of-course exams
8. Continuous evaluation
9. Clinical groups
10. Practical exams

## 11. The teaching staff

### Faculty members

Preparing the teaching staff		Special requirements/skills (if any)		Specialization		Scientific rank
lecturer	Basic			private	general	
nothing	√			Internal and preventive medicine	Veterinary medicine and surgery	Asisst.Prof.Dr. Raad Mahmood Hussien
nothing	√			Internal and preventive medicine	Veterinary medicine and surgery	Assist. Prof Dr. Tareq Rifaahat Minnat

nothing	√			Internal and preventive medicine	Veterinary medicine and surgery	Assist.Prof.Dr Dr. Ahmed Khalaf
nothing	√			Internal and preventive medicine	Veterinary medicine and surgery	Assist.Prof Waleed Ibraheem Jaleel
nothing	√			Internal preventive medicine	Veterinary medicine surgery	Lecturer Dr. Roaa Ad Hussien
nothing	√			zoonotic diseases	Veterinary medicine surgery	Assist lecturer Ayat Jasim Mohamed
experienced				Medicine treatment	Veterinary medicine surgery	Prof.Dr.Nazar Jabar Moslih

### Professional development

Orienting new faculty members

Guiding new faculty members through preparing courses and seminars in addition to meetings for college councils and councils Branches and through official notifications on the official website.

### **Professional development for faculty members**

Continuing and permanent education through searching for developments in the library and scientific journals And the Internet, in addition to scientific seminars and seminars, and through practice in hospitals Veterinary.

### **12. Acceptance criterion**

1. Central admission through the Ministry of Higher Education and Scientific Research, based on the sixth grade average, is done via an electronic form
2. Parallel acceptance channel

### **13. The most important sources of information about the program**

1. University website
2. The website of the Ministry of Higher Education and Scientific Research
- 3- The college library and the university's central library

### **14. Program development plan**

4. Developing academic curricula annually and updating them in line with developments in the diagnosis and treatment of diseases Esotericism
5. Developing the scientific and administrative staff in the college based on annual evaluations and diagnosing areas of weakness And strength



6. Developing senior leaders, faculty members, employees, and workers at the college

### Program skills chart

Learning outcomes required from the programme												Essential or optional	Course Name	Course Code	Year/level
values				skills				Knowledge							
C4	C3	C2	C1	B4	B3	B2	B1	A4	A3	A2	A1				
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	Veterinary application		the third
												Basic			
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	Internal medicine		the fourth
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	Infectious diseases		
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	Clinical pathology		

		✓				✓				✓		Basic	<b>Epidemiological</b>		<b>Fifth</b>
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	<b>Clinic</b>		
		✓				✓				✓		Basic	<b>Zoonotic diseases</b>		
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	<b>Internal medicine</b>		
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	<b>clinic</b>		
			✓				✓				✓	Basic	<b>Research of methods</b>		

•Please check the boxes corresponding to the individual learning outcomes from the program subject to evaluation

## Course description form

1. Course Name:	
<b>Epidemiology</b>	
2. Course Code:	
Fourth year	
3. Semester / Year:	
First semester 2023-2024	
4. Description Preparation Date:	
2024	
5. Available Attendance Forms:	
Mandatory attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
15 hours	
7. Course administrator's name (mention all, if more than one name)	
Name : Asisst.Prof.Dr. Tareq Rifaht Minnat <a href="mailto:treq.r@uodiyala.edu.iq">treq.r@uodiyala.edu.iq</a> Email :	
8-Course Objective	
Course Objectives	<ol style="list-style-type: none"> <li>1. - Teaching the student the concept of Epidemiology and its general principles</li> <li>2. Basic concepts of disease quantification Measures of morbidity. <ul style="list-style-type: none"> <li>● Prevalence.</li> <li>● Incidence.</li> <li>● Relationship between prevalence and incidence.</li> </ul> </li> <li>3. The economics of animal diseases Data collection and management</li> <li>4. <b>Control and Eradication of Diseases</b></li> <li>5. Identifying pathogens that may affect animals to give the correct diagnosis of the disease state.</li> </ol>

	6. The skills goals special to the course. 7. Teaching the student how to make an accurate diagnosis of the disease. 8. Teaching the student to use scientific methods in diagnosis. 9. <b>Assessing validity and reliability of diagnostic tests (serological epidemiology)</b>
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### 9. Teaching and learning strategies

6. lectures.
7. Discussions during and after the lecture.
8. Motivation through questions and answers.
9. Homework .
10. Preparation of scientific reports .

### 10. Course structure

#### Course Structure: Epidemiology /Fourth Stage/First Course

Evaluation method	Learning method	Unit or subject name	Required learning Outcomes	Hours	Week
<i>Exam</i>	Theoretical	<ul style="list-style-type: none"> <li>• Definitions.</li> <li>• Objectives of epidemiology and preventive medicine.</li> <li>• Uses of epidemiology.</li> </ul> Types of epidemiology	ج + ب + ا	3	1
<i>Exam</i>	Theoretical	<b>Occurrence of disease</b> 10. Basic concepts of disease quantification 11. Measures of morbidity. 12. Prevalence. 13. Incidence.	ج + ب + ا	3	2

		14. Relationship between prevalence and incidence. 15. Measures of mortality.			
<i>Exam</i>	Theoretical	<b>Diseases Transmission and Determinants</b> <ul style="list-style-type: none"> <li>● Mode of disease transmission.</li> <li>● Susceptibility.</li> <li>● Clinical vs. subclinical diseases.</li> <li>● Endemic, epidemic, pandemic, and outbreaks.</li> <li>● Diseases determinants</li> </ul>	ا + ب + ج	3	3
<i>Exam</i>	Theoretical	<b>The economics of animal diseases</b>	ا + ب + ج	3	4
<i>Exam</i>	Theoretical	<b>Data collection and management</b>	ا + ب + ج	3	5
<i>Exam</i>	Theoretical	<b>Sampling and sample size</b> <ul style="list-style-type: none"> <li>● Sampling methods.</li> <li>● Sample size importance and calculation</li> </ul>	ا + ب + ج	3	6
<i>Exam</i>	Theoretical	<b>Study Design</b> <ul style="list-style-type: none"> <li>● Prospective vs. Retrospective</li> <li>● Observational studies: <ul style="list-style-type: none"> <li>● Descriptive.</li> <li>● Cross-sectional.</li> <li>● Case-control.</li> <li>● Cohort.</li> </ul> </li> <li>● Experimental studies <ul style="list-style-type: none"> <li>● Field trials.</li> </ul> </li> </ul>	ا + ب + ج + د	3	7

		<ul style="list-style-type: none"> <li>Randomized controlled trials (clinical trials).</li> </ul>			
<i>Exam</i>	Theoretical	<b>Measures of association</b> <ul style="list-style-type: none"> <li>Absolute risk.</li> <li>Relative risk.</li> <li>Relative odds (odds ratio).</li> <li>Attributable risk.</li> <li>Hazard ratio.</li> <li>Association vs. causation</li> <li>Bias, confounding, and interaction.</li> </ul>	ا + ب + ج + د	3	8
<i>Exam</i>	Theoretical	<b>Survey and Surveillance</b>	ا + ب + ج + د	3	9
<i>Exam</i>	Theoretical	<b>Control and Eradication of Diseases</b>	ا + ب + ج + د	3	10
<i>Exam</i>	Theoretical	<b>Assessing validity and reliability of diagnostic tests (serological epidemiology)</b>	ا + ب + ج + د	3	11
<i>Exam</i>	Theoretical	<b>Exam</b>	ا + ب + ج + د	3	12
<i>Exam</i>	Theoretical	<b>Occurrence of disease</b> <ol style="list-style-type: none"> <li>Basic concepts of disease quantification</li> <li>Measures of morbidity.</li> <li>Prevalence.</li> <li>Incidence.</li> <li>Relationship between prevalence and incidence.</li> <li>Measures of mortality.</li> </ol>	ا + ب + ج + د	3	13
<i>Exam</i>	Theoretical	<b>Diseases Transmission and Determinants</b> <ul style="list-style-type: none"> <li>Mode of disease transmission.</li> <li>Susceptibility.</li> </ul>	ا + ب + ج + د	3	14

		<ul style="list-style-type: none"> <li>• Clinical vs. subclinical diseases.</li> <li>• Endemic, epidemic, pandemic, and outbreaks.</li> <li>• Diseases determinants</li> </ul> <p><b>The economics of animal diseases</b></p>			
<i>Exam</i>		Examination	ا + ب + ج + د	3	15

### 11. Course evaluation

Daily exams

Reports preparation

Mid-course exam

final exam

### 12 .Learning and teaching resources

<ul style="list-style-type: none"> <li>- 1- Veterinary Epidemiology - An Introduction</li> <li>An Introduction to Veterinary Epidemiology Mark Stevenson</li> </ul>	Main references (sources)
<ul style="list-style-type: none"> <li>- Veterinary medical journals issued .by Iraqi veterinary medical colleges</li> <li>- ab and international medical journals</li> </ul>	Recommended supporting books and references (scientific journals, reports(....
<ul style="list-style-type: none"> <li>- <a href="http://www.iasj.net">http://www.iasj.net</a> Iraqi academic scientific journal</li> </ul>	Electronic references, Internet sites

### Concepts and terminology:



Description of the academic program: The description of the academic program provides a brief summary of its vision, mission, and objectives, including an accurate description of the targeted learning outcomes according to specific learning strategies.

Course Description: Provides a necessary summary of the most important characteristics of the course and the learning outcomes that the student is expected to achieve, demonstrating whether he or she has made the most of the available learning opportunities. It is derived from the program description.

Program Vision: An ambitious picture for the future of the academic program to be a developed, inspiring, motivating, realistic and applicable program.

The program's mission: It briefly explains the goals and activities necessary to achieve them, and also defines the program's development paths and directions.

Program objectives: These are statements that describe what the academic program intends to achieve within a specific period of time and are measurable and observable.

Curriculum structure: All courses/study subjects included in the academic program according to the approved learning system (semester, annual, Bologna track), whether it is a requirement (ministry, university, college, or scientific department), along with the number of study units.

Learning outcomes: A consistent set of knowledge, skills, and values that the student has acquired after the successful completion of the academic program. The learning outcomes for each course must be determined in a way that achieves the program objectives.

Teaching and learning strategies: They are the strategies used by the faculty member to develop the student's teaching and learning, and they are plans that are followed to reach the learning goals. That is, it describes all curricular and extracurricular activities to achieve the learning outcomes of the programme.

## **Academic program description form**

University name: Diyala University

College/Institute: College of Veterinary Medicine

Scientific Department: Department of surgery and obstetrics

Name of the academic or professional program: Bachelor of Veterinary  
Medicine

Name of final degree: Bachelor of Veterinary Medicine and Surgery

Study system: semester/courses

Description preparation date: 2024

Date of filling the file: 9/1/2023

التوقيع :  
اسم المعاون العلمي: ا.د. زاهد  
اسماعيل

التاريخ :

التوقيع :  
اسم رئيس القسم: م . د. فلاح حسن  
خلف

التاريخ :

دقق الملف من قبل

شعبة ضمان الجودة والأداء الجامعي

اسم مدير شعبة ضمان الجودة والأداء الجامعي:

التاريخ

التوقيع

مصادقة السيد  
العميد

#### 9. Program vision

After graduation our students will be able to work in a multidisciplinary team in the veterinary health sector.

To ensure optimal team performance and effective results in treating surgical cases.

#### 2. Program message

Our college seeks to obtain international accreditation and rise to the global level in terms of quality of outputs and graduation highly qualified veterinarians in caring for field and pet animals, and serving the community.

### **3. objectives of the program**

☒ Achieving quality standards based on scientific institutional quality standards.

☒ Graduating veterinarians with a bachelor's degree in veterinary medicine and surgery, who are able to conduct and examine

Disease cases, diagnosing the disease and providing treatment on scientific basis.

☒ After graduation, our students will be able to work in a multidisciplinary team in the health and wealth sector

Animals to ensure optimal team performance and effective results for the safety of society and field animals.

☒ Preparing veterinarians capable of interacting in the workplace and solving urgent problems in the livestock sector.

☒ Graduating doctors with high skills and knowledge in conducting scientific research in various specialized fields.

☒ Encouraging faculty members, staff, and students to enhance their technical skills and benefit from modern technologies in transferring knowledge, producing scientific research, and creating curricula for educational programs.

☒ Implementing a development program for faculty and staff.

### **4. Program accreditation**

The application process has begun

### **5. Other external influences**

Veterinary hospital, library, Internet, community, Doctors Syndicate

### 6. Program structure

Program structure	percentage	Credit hours	Number of Courses	Reviews
	%100		8	Institution Requirements
	%100		8	College Requirements
	%100		8	Department Requirements
			4	Summer Training
	.....	.....	.....	Other

\*Notes may include whether the course is basic or elective.

### 7. Program description

Credit hours		Name of the course or course	Course or course code	Year/level
90 hours	90 hours	Surgery		the fourth
	60 hours	Clinic		
90 hours	60 hours	Surgery		Fifth
	90 hours	Clinic		

### 8. Expected learning outcomes of the program

Knowledge

1. Learning Outcomes 1 Study of various surgical cases, especially common ones or emergency cases that the veterinarian may face.
- 2 -Identifying surgical conditions and methods of treating them.
- 3 -Understanding the veterinary pathological interactions between internal diseases and diseases in other branches
- 4 -Knowing ways to new technique in diagnosis and treatment of surgical cases

#### Skills

- 1 Take an accurate medical history, especially surgical cases
- 2 -The correct methods for measuring and reading clinical conditions
- 3-Clinical skills in examining animals

#### Value

- 1- Developing expertise by dealing with transitional situations
- 2- Recognizing professional responsibility in dealing with communicable diseases
- 3-Using modern methods in treating medical conditions

### 9. Teaching and learning strategies

- 1.Theoretical lectures using illustrations (interactive whiteboard and data show(
- 2.Practical application of concepts studied in laboratories and the veterinary hospital.
- 3.Seminars (students are assigned a topic within the curriculum for presentation and discussion)
- 4.Solving scientific problems by discussing them within small groups to reach the correct solutions
5. In-person and electronic blended learning for student activities via the e-learning platform (Classroom)

## 10. Evaluation methods

1. Discussion within lectures
2. Mid-course exams and end-of-course exams
3. Continuous evaluation
4. Clinical groups
5. Practical exams

## 11. The teaching staff

### Faculty members

Preparing the teaching staff		Special requirements/skills (if any)		Specialization		Scientific rank
lecturer	Basic			private	general	
nothing	√			Surgical medicine	Veterinary medicine and surgery	م.د.فلاح حسن خلف

### Professional development

Orienting new faculty members

Guiding new faculty members through preparing courses and seminars in addition to meetings for college councils and councils Branches and through official notifications on the official website.

#### **Professional development for faculty members**

Continuing and permanent education through searching for developments in the library and scientific journals And the Internet, in addition to scientific seminars and seminars, and through practice in hospitals Veterinary.

### **12. Acceptance criterion**

1. Central admission through the Ministry of Higher Education and Scientific Research, based on the sixth grade average, is done via an electronic form
2. Parallel acceptance channel

### **13. The most important sources of information about the program**

1. University website
2. The website of the Ministry of Higher Education and Scientific Research
- 3- The college library and the university's central library

### **14. Program development plan**

1. Developing academic curricula annually and updating them in line with developments in the diagnosis and treatment of diseases



Esotericism

2. Developing the scientific and administrative staff in the college based on annual evaluations and diagnosing areas of weakness

And strength

3. Developing senior leaders, faculty members, employees, and workers at the college

### Program skills chart

Learning outcomes required from the programme												Essential or optional	Course Name	Course Code	Year/level
values				skills				Knowledge							
4ج	3ج	2ج	1ج	4ب	3ب	2ب	1ب	4ا	3ا	2ا	1ا				
												Basic			fourth
		✓				✓				✓		Basic	<b>Surgery</b>		
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	<b>Clinic</b>		
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	<b>Surgery</b>		Fifth
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	<b>clinic</b>		

•Please check the boxes corresponding to the individual learning outcomes from the program subject to evaluation

## Course description form

1. Course Name:	
Surgery	
2. Course Code:	
Forth year	
3. Semester / Year:	
First and 2 <sup>nd</sup> semester 2023-2024	
4. Description Preparation Date:	
20	
5. Available Attendance Forms:	
Mandatory attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
90 hours	
7. Course administrator's name (mention all, if more than one name)	
الاسم: م.د فلاح حسن خلف      الايميل: Falah.h@uodiyala.edu.iq	
8-Course Objective	
Course Objectives	Introduction and classification of surgery Sterilization Response to trauma- Inflammation Hemostasis Wound classification
9. Teaching and learning strategies	
1- The method of delivery is accompanied by interrogation by directing questions to the students and involving them in the lecture.	

- 2Assigning the student to write reports related to the course topics.
- 4Displaying pictures and films of surgical operations through the data show device.
- 5- Use of computers

### 10. Course structure

Evaluation method	Learning method	Unit or subject name	Required learning Outcomes	Hours	Week

### 11. Course evaluation

- Daily exams
- Reports preparation
- Mid-course exam
- final exam

### 12 .Learning and teaching resources

Veterinary Medicine	Required textbooks (methodology, if any(
<ul style="list-style-type: none"> <li>- Textbook of small animal surgery.</li> <li>- Equine surgery.</li> <li>- Vet. anaesthesia.</li> <li>- Lameness in horse.</li> <li>- Vet. Radiology</li> </ul>	Main references (sources(

<ul style="list-style-type: none"> <li>- Veterinary medical journals issued by Iraqi veterinary medical colleges.</li> <li>- Arab and international medical journals</li> </ul>	Recommended supporting books and references (scientific journals, reports(....
<a href="http://www.iasj.net">http://www.iasj.net</a> Iraqi academic science journals	Electronic references, Internet sites

### Course Structure: surgery /Fourth Stage/First Course

Evaluation method	Learning method	Unit or subject name	Required learning Outcomes	Hours	Week
<i>Exam</i>	<b>Surgical theater</b>	<b>Introduction and classification of surgery</b>	ا + ب + ج	4	1
<i>Exam</i>	<b>Instrumentation</b>	<b>Sterilization</b>	ا + ب + ج	4	2
<i>Exam</i>	<b>Instrumentation</b>	<b>Response to trauma - Inflammation</b>	ا + ب + ج	4	3
<i>Exam</i>	<b>Instrumentation</b>	<b>Hemostasis</b>	ا + ب + ج	4	4
<i>Exam</i>	<b>Preparation of surgical Packs</b>	<b>Wound classification</b>	ا + ب + ج	4	5
<i>Exam</i>	<b>Preparation of patient</b>	<b>Abscess</b>	ا + ب + ج	4	6
<i>Exam</i>	<b>Preoperative examination</b>	<b>Ulcer</b>	ا + ب + ج + د	4	7
<i>Exam</i>	<b>Sutures and ligatures</b>	<b>Tumors</b>	ا + ب + ج + د	4	8
<i>Exam</i>	<b>Sutures and ligatures</b>	<b>Affection of bursa , joints</b>	ا + ب + ج + د	4	9
<i>Exam</i>	<b>Local anesthesia</b>	<b>Affection of tendon</b>	ا + ب + ج + د	4	10

<i>Exam</i>	<b>Local anesthesia</b>	<b>History on anesthesia</b>	ا + ب + ج + د	4	11
<i>Exam</i>	<b>Regional anesthesia</b>	<b>Classification of Anesthesia</b>	ا + ب + ج + د	4	12
<i>Exam</i>	<b>Regional anesthesia</b>	<b>Local anesthesia</b>	ا + ب + ج + د	4	13
<i>Exam</i>	<b>Examination</b>	<b>Regional anesthesia</b>	ا + ب + ج + د	4	14
<i>Exam</i>	<b>Final examination</b>	<b>Pre anesthetic Consideration</b>	ا + ب + ج + د	4	15

**Course Structure: surgery /Fourth Stage/Second Course**

<i>Exam</i>	General anesthesia	<b>General anesthesia</b>	ا + ب + ج + د	4	1
<i>Exam</i>	x-ray	<b>Stages of general Anesthesia</b>	ا + ب + ج + د	4	2
<i>Exam</i>	x-ray	<b>Volatile and nonvolatile anesthetic agents</b>	ا + ب + ج + د	4	3
<i>Exam</i>	Orthopedic surgery	<b>Anesthesia of large animals and bird</b>	ا + ب + ج + د	4	4
<i>Exam</i>	Orthopedic surgery	<b>Anesthetic accident</b>	ا + ب + ج + د	4	5
<i>Exam</i>	Orthopedic surgery	<b>Anesthetic accident treatment</b>	ا + ب + ج + د	4	6
<i>Exam</i>	Tendon surgery	<b>Radiology hazard and Protection</b>	ا + ب + ج + د	4	7
<i>Exam</i>	Tendon surgery	<b>Diagnostic and procedures of radiology</b>	ا + ب + ج + د	4	8
<i>Exam</i>	Intra articular injection	<b>Processing of x-ray</b>	ا + ب + ج + د	4	9

<i>Exam</i>	Intra articular injection	<b>Fracture classification</b>	ا + ب + ج + د	4	10
<i>Exam</i>	Laser & endoscopic surgery	<b>Fracture healing</b>	ا + ب + ج + د	4	11
<i>Exam</i>	Laser & endoscopic surgery	<b>Lameness</b>	ا + ب + ج + د	4	12
<i>Exam</i>	Docking	<b>Affection of hoof</b>	ا + ب + ج + د	4	13
<i>Exam</i>	Docking	<b>Laser in surgery</b>	ا + ب + ج + د	4	14
<i>Exam</i>	Final examination	<b>Endoscopic surgery</b>	ا + ب + ج + د	4	15

المدرس الدكتور  
فلاح حسن خلف  
رئيس فرع الجراحة والتوليد

### Concepts and terminology:

Description of the academic program: The description of the academic program provides a brief summary of its vision, mission, and objectives, including an accurate description of the targeted learning outcomes according to specific learning strategies.

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Learning outcomes: A consistent set of knowledge, skills, and values that the student has acquired after the successful completion of the academic program. The learning outcomes for each course must be determined in a way that achieves the program objectives.

Teaching and learning strategies: They are the strategies used by the faculty member to develop the student's teaching and learning, and they are plans that are followed to reach the learning goals. That is, it describes all curricular and extracurricular activities to achieve the learning outcomes of the programme.

## **Academic program description form**

University name: Diyala University

College/Institute: College of Veterinary Medicine

Scientific Department: Department of Internal Medicine



Name of the academic or professional program: Bachelor of Veterinary Medicine

Name of final degree: Bachelor of Veterinary Medicine and Surgery

Study system: semester/courses

Description preparation date: 2024

Date of filling the file: 9/1/2023

: التوقيع

اسم المعاون العلمي: ا.د. زاهد اسماعيل محمد

: التاريخ

: التوقيع

اسم رئيس القسم: م.د.فلاح حسن خلف

: التاريخ

دقق الملف من قبل

شعبة ضمان الجودة والأداء الجامعي

اسم مدير شعبة ضمان الجودة والأداء الجامعي:

التاريخ

التوقيع

مصادقة السيد العميد

#### 10. Program vision

After graduation our students will be able to work in a multidisciplinary team in the veterinary health sector.

To ensure optimal team performance and effective results in treating medical cases.

## **2. Program message**

Our college seeks to obtain international accreditation and rise to the global level in terms of quality of outputs and graduation highly qualified veterinarians in caring for field and pet animals, and serving the community.

## **3. objectives of the program**

- ☒ Achieving quality standards based on scientific institutional quality standards.
- ☒ Graduating veterinarians with a bachelor's degree in veterinary medicine and surgery, who are able to conduct and examine Disease cases, diagnosing the disease and providing treatment on scientific basis.
- ☒ After graduation, our students will be able to work in a multidisciplinary team in the health and wealth sector Animals to ensure optimal team performance and effective results for the safety of society and field animals.
- ☒ Preparing veterinarians capable of interacting in the workplace and solving urgent problems in the livestock sector.
- ☒ Graduating doctors with high skills and knowledge in conducting scientific research in various specialized fields.
- ☒ Encouraging faculty members, staff, and students to enhance their technical skills and benefit from modern technologies in transferring knowledge, producing scientific research, and creating curricula for educational programs.
- ☒ Implementing a development program for faculty and staff.

## **4. Program accreditation**

The application process has begun

### 5. Other external influences

Veterinary hospital, library, Internet, community, Doctors Syndicate

### 6. Program structure

Program structure	percentage	Credit hours	Number of Courses	Reviews
	%100		6	Institution Requirements
	%100		6	College Requirements
	%100		6	Department Requirements
				Summer Training
	.....	.....	.....	Other

\*Notes may include whether the course is basic or elective.

### 7. Program description

Credit hours		Name of the course or course	Course or course code	Year/level
90 hours	90 hours	Surgery		the fourth
	60 hours	Clinic		
90 hours	60 hours	Surgery		Fifth
	90 hours	Clinic		

	Hours 15	Research method		
--	----------	-----------------	--	--

8. Expected learning outcomes of the program	
<b>Knowledge</b>	
1. Learning Outcomes 1 Study of various surgical cases, especially common ones or emergency cases that the veterinarian may face. 2. Identifying medical conditions and methods of treating them. 3. Understanding the veterinary pathological interactions between internal diseases and diseases in other branches 4. Knowing way to new diagnostic and treatment methods of surgical cases.	
<b>Skills</b>	
1 -Take an accurate medical history, especially surgical cases 2- The correct methods for measuring and reading clinical conditions 3-Clinical skills in examining animals	
<b>Value</b>	
1- Developing expertise by dealing with transitional situations 2- Recognizing professional responsibility in dealing with communicable diseases 3-Using modern methods in treating medical conditions	

9. Teaching and learning strategies	
1.Theoretical lectures using illustrations (interactive whiteboard and data show( 2.Practical application of concepts studied in laboratories and the veterinary hospital. 3.Seminars (students are assigned a topic within the curriculum for presentation and discussion) 4.Solving scientific problems by discussing them within small groups to reach the correct solutions	

5. In-person and electronic blended learning for student activities via the e-learning platform (Classroom)

### 10. Evaluation methods

1. Discussion within lectures
2. Mid-course exams and end-of-course exams
3. Continuous evaluation
4. Clinical groups
5. Practical exams

### 11. The teaching staff

#### Faculty members

Preparing the teaching staff		Special requirements/skills (if any)		Specialization		Scientific rank
lecturer	Basic			private	general	
nothing	√			Surgical medicine	Veterinary medicine and surgery	م.د.فلاح حسن خلف

#### Professional development

Orienting new faculty members

Guiding new faculty members through preparing courses and seminars in addition to meetings for college councils and councils Branches and through official notifications on the official website.

#### **Professional development for faculty members**

Continuing and permanent education through searching for developments in the library and scientific journals And the Internet, in addition to scientific seminars and seminars, and through practice in hospitals Veterinary.

### **12. Acceptance criterion**

1. Central admission through the Ministry of Higher Education and Scientific Research, based on the sixth grade average, is done via an electronic form
2. Parallel acceptance channel

### **13. The most important sources of information about the program**

1. University website
2. The website of the Ministry of Higher Education and Scientific Research
- 3- The college library and the university's central library

### **14. Program development plan**

1. Developing academic curricula annually and updating them in line with developments in the diagnosis and treatment of diseases

Esotericism

2. Developing the scientific and administrative staff in the college based on annual evaluations and diagnosing areas of weakness

And strength

3. Developing senior leaders, faculty members, employees, and workers at the college

Program skills chart															
Learning outcomes required from the programme												Essential or optional	Course Name	Course Code	Year/level
values				skills				Knowledge							
4ج	3ج	2ج	1ج	4ب	3ب	2ب	1ب	4ا	3ا	2ا	1ا				
													Basic		
		✓				✓				✓			Basic	Surgery	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		Basic	Clinic	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		Basic	Surgery	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		Basic	clinic	
			✓				✓				✓		Basic	Research of methods	

•Please check the boxes corresponding to the individual learning outcomes from the program subject to evaluation

## Course description form

1. Course Name:	
Surgery	
2. Course Code:	
Forth year	
3. Semester / Year:	
First and 2 <sup>nd</sup> semester 2023-2024	
4. Description Preparation Date:	
20	
5. Available Attendance Forms:	
Mandatory attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
90 hours	
7. Course administrator's name (mention all, if more than one name)	
الاسم: م.د فلاح حسن خلف      الايميل: Falah.h@uodiyala.edu.iq	
8-Course Objective	
Course Objectives	Digestive system surgical affections Respiratory system surgical affections Abdominal wall and hernia
<b>9. Teaching and learning strategies</b>	
1- The method of delivery is accompanied by interrogation by directing questions to the students and involving them in the lecture. -2Assigning the student to write reports related to the course topics. -4Displaying pictures and films of surgical operations through the data show device. 5- Use of computers	



10. Course structure					
Evaluation method	Learning method	Unit or subject name	Required learning Outcomes	Hours	Week
11. Course evaluation					
Daily exams					
Reports preparation					
Mid-course exam					
final exam					
12 .Learning and teaching resources					
Veterinary Medicine			Required textbooks (methodology, if any(		
<ul style="list-style-type: none"> <li>- Textbook of small animal surgery.</li> <li>- Farm animal surgery</li> <li>- Equine surgery.</li> <li>- Large animal surgery</li> </ul>			Main references (sources(		
<ol style="list-style-type: none"> <li>1. Textbook of small animal surgery</li> <li>2. Textbook of large animal surgery</li> <li>3. الجراحة البيطرية التطبيقية</li> </ol>			Recommended supporting books and references (scientific journals, reports(...		
<a href="http://www.iasj.net">http://www.iasj.net</a> Iraqi academic scienc journals			Electronic references, Internet sites		

**Course Structure: surgery/Fifth Stage /First Course**

Evaluation method	Learning method	Unit or subject name	Required learning Outcomes	Hours	Week
<i>Exam</i>	Oesophagotomy	Digestive system: affection of salivary gland	ا + ب + ج	4	1
<i>Exam</i>	Oesophagotomy	Affection of tongue	ا + ب + ج	4	2
<i>Exam</i>	Tracheotomy	Affection of teeth	ا + ب + ج	4	3
<i>Exam</i>	Tracheotomy	Affection esophagus	ا + ب + ج	4	4
<i>Exam</i>	Intestinal surgery	Affection of stomach	ا + ب + ج	4	5
<i>Exam</i>	Intestinal surgery	Affection of small intestine	ا + ب + ج	4	6
<i>Exam</i>	Enterotomy	Affection of digestive accessory organs	ا + ب + ج + د	4	7
<i>Exam</i>	Enterotomy	Facial paralysis	ا + ب + ج + د	4	8
<i>Exam</i>	Castration	Respiratory system: affection of upper tract	ا + ب + ج + د	4	9
<i>Exam</i>	Castration	Affection of larynx and guttural	ا + ب + ج + د	4	10
<i>Exam</i>	Gastrotomy	Affection lungs and trachea	ا + ب + ج + د	4	11
<i>Exam</i>	Gastrotomy	Affection lungs and trachea	ا + ب + ج + د	4	12
<i>Exam</i>	Mammectomy	Affection of chest wall	ا + ب + ج + د	4	13
<i>Exam</i>	Mammectomy	Cardiovascular system: cardial anomalies	ا + ب + ج + د	4	14
<i>Exam</i>	Teat fistula	Pericarditis	ا + ب + ج + د	4	15
Course Structure: surgery/Fifth Stage/Second Course					

<i>Exam</i>	<b>Nephrectomy</b>	<b>Treatment of fistula wither</b>	ا + ب + ج + د	4	1
<i>Exam</i>	<b>Nephrectomy</b>	<b>Affection of male genital system</b>	ا + ب + ج + د	4	2
<i>Exam</i>	<b>Ovariohysterectomy</b>	<b>Affection of female genital system</b>	ا + ب + ج + د	4	3
<i>Exam</i>	<b>Ovariohysterectomy</b>	<b>Treatment pneumovagina</b>	ا + ب + ج + د	4	4
<i>Exam</i>	<b>Cystotomy and cystectomy</b>	<b>Affection of penis and prepuce</b>	ا + ب + ج + د	4	5
<i>Exam</i>	<b>Cystotomy and cystectomy</b>	<b>Preparation of teaser</b>	ا + ب + ج + د	4	6
<i>Exam</i>	<b>Urethrostomy and urethrotomy</b>	<b>Castration</b>	ا + ب + ج + د	4	7
<i>Exam</i>	<b>Urethrostomy and urethrotomy</b>	<b>Urinary system: affection of kidney</b>	ا + ب + ج + د	4	8
<i>Exam</i>	<b>Splenectomy</b>	<b>Affection of ureter</b>	ا + ب + ج + د	4	9
<i>Exam</i>	<b>Splenectomy</b>	<b>Affection of urinary bladder</b>	ا + ب + ج + د	4	10
<i>Exam</i>	<b>Rumenotomy</b>	<b>Affection of urethra</b>	ا + ب + ج + د	4	11
<i>Exam</i>	<b>Rumenotomy</b>	<b>Affection of teat and udder</b>	ا + ب + ج + د	4	12
<i>Exam</i>	<b>Ophthalmic surgery</b>	<b>Ear surgery</b>	ا + ب + ج + د	4	13
<i>Exam</i>	<b>Ophthalmic surgery</b>	<b>Eye surgery</b>	ا + ب + ج + د	4	14
<i>Exam</i>	<b>Nephrectomy</b>	<b>Eye surgery</b>	ا + ب + ج + د	4	15