Ministry of Higher Education and Scientific Research

Supervision and Scientific Evaluation Directorate

Quality Assurance and Academic Accreditation

Accreditation Department

Academic Program Description

College of Veterinary Medicine

Baghdad University

(2025/2026)

University: Baghdad.

College/Institute: Veterinary Medicine.

Academic Program Name: (Bachelor) Veterinary Medicine.

Study System: Course System / Bologna

Final Degree Name: Bachelor of Veterinary Medicine and Surgery.

Date of filling the file: 1/2/2025

Academic Program Description Form

University Name: ..... University of Baghdad.....
Faculty/Institute: .....College of Veterinary Medicine.....
Scientific Department: ..... 9.....
Academic or Professional Program Name: .Bachelor of Veterinary .Medicine.
Final Certificate Name: .. Bachelor of Veterinary Medicine and Surgery.....
Academic System: ...semesters.....
Description Preparation Date: 10/9/2025
File Completion Date:

Signature: O. Alshoe
Scientific Associate Name: Orooba Mohammed saeed Ibrihim
Date: 8 - 9 - 2025

The file is checked by:
Director of the Quality Assurance and University Performance Division
Name: Amer Hakeem Chyad
Date: 8/9/2025
Signature:

Approval of the Dean
Hameed A. AL-

Ministry of Higher Education & Scientific Research
College of Veterinary Medicine
DEAN OFFICE

Introduction:

The educational program is a coordinated and organized package of courses that includes procedures and experiences organized as study units. Its primary purpose is to build and refine graduates' skills, making them qualified to meet labor market requirements. It is reviewed and evaluated annually through internal or external audit procedures and programs, such as the external examiner program.

The academic program description provides a brief summary of the program's main features and courses, indicating the skills that students are expected to acquire based on the program's academic objectives. The importance of this description lies in being the cornerstone for obtaining programmatic accreditation. It is written by teaching staff under the supervision of scientific committees in academic departments.

This second edition of the guide includes a description of the academic program after updating the items and paragraphs of the previous guide in light of recent developments and changes in the Iraqi educational system. It includes a description of the academic program in its traditional form (annual, semester system), as well as adopting the academic program description circulated by the Directorate of Studies letter T M3/2906 on 3/5/2023 regarding programs that adopt the Bologna path as their basis of operation.

In this regard, we must emphasize the importance of writing academic program and course descriptions to ensure the proper conduct of the educational process.

Academic Program Description:

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

Course Description: It provides a brief summary of the most important characteristics of the course and the expected learning outcomes to be achieved by the student, demonstrating whether he/she has made the best use of available learning opportunities. It is derived from the program description.

Program Vision: An aspirational picture of the future of the academic program to be advanced, inspiring, motivating, realistic, and applicable.

1- Educational Institution	University of Baghdad / College of Veterinary Medicine
2-Scientific Department / Center	College of Veterinary Medicine
3-Name of Academic Program	Bachelor of Veterinary Medicine
4-Final Degree Name	Bachelor of Veterinary Medicine and Surgery
5-Study System	Course System / Bologna Path

6-Adopted Accreditation Program	Mandatory
7- External Influences	None
8-Date of Description Preparation	1/2/2025
9- Academic Program Objectives	1-Keeping pace with developments and progress in the field of veterinary medicine and surgery by updating undergraduate and postgraduate curricula according to international standards and in line with labor market requirements. 2- Serving the community by treating disease cases and providing scientific consultations to animal owners and productive animal farms. 3- Establishing training courses with other colleges and ministries to maintain scientific bridges between them and the mother college, developing professional

	performance, and strengthening the scientific base. 4- Supporting ties of cooperation between the college and beneficiary parties through conducting joint research that addresses problems facing livestock and curriculum development committees. 5- Activating international relations and cooperation with reputable counterpart international colleges 6-Obtaining academic programmatic accreditation.

Program Objectives: Statements describing what the academic program intends to achieve over a specific period of time, measurable and observable.

Curriculum Structure: All courses / study materials included in the academic program according to the adopted learning system (semester, annual, Bologna path), whether requirement (Ministry, University, College, and Scientific Department) with the number of study units.

Learning Outcomes: A consistent set of knowledge, skills, and values acquired by the student after successfully completing the academic program. The learning outcomes for each course must be defined in a way that achieves the program's objectives.

Teaching and Learning Strategies: Strategies used by faculty members to develop student teaching and learning. They are plans followed to reach learning objectives, describing all classroom and extracurricular activities to achieve the program's learning outcomes.

1- Program Vision:

The College of Veterinary Medicine aspires to become an educational, research, extension, and productive institution, to be prominent and distinguished in the field of education, community service, and systems that ensure the development of livestock in the country by producing high-quality graduates who are aware of the importance of this profession, which governs their work and achieves commitment, responsibility, and leadership towards excellence and innovation in the field of the profession.

2- Program Mission:

We, the College of Veterinary Medicine, strive to prepare and qualify distinguished graduates in the field of veterinary medicine, develop the teaching staff, foster a spirit of scientific research and sustainable development, and integrate theoretical and applied knowledge in the field of veterinary medicine and surgery.

3- Program Objectives:

1- Keeping pace with developments and progress in the field of veterinary medicine and surgery by updating undergraduate and postgraduate curricula according to international standards and in line with labor market requirements.

2- Serving the community by treating disease cases and providing scientific consultations to animal owners and productive animal farms.

3- Establishing training courses with other colleges and ministries to maintain scientific bridges between them and the mother college, developing professional performance, and strengthening the scientific base.

4- Supporting ties of cooperation between the college and beneficiary parties through conducting joint research that addresses problems facing livestock and curriculum development committees.

5- Activating international relations and cooperation with reputable counterpart international colleges.

6 -Obtaining academic programmatic accreditation**.**

4- Program Accreditation:

The minutes of the seventeenth session of the National Council for Accreditation of Veterinary Medicine College Programs and the powers vested in the Council by Ministerial Order (1193 on 27/10/2022) were approved. It was decided to grant the Bachelor's program of the College of Veterinary Medicine / University of Baghdad conditional accreditation for two years to fulfill the remaining standards according to Ministerial Order No. (6709 on 28/10/2025).

5- External Influences:
None
6-program structure:

Remarks	Percentage	Credit Units	Number of Course	Component
General courses such as Arabic Language, English Language, Computer Skills, Human Rights, and Crimes of the Ba'ath Party - intended to provide academic	**7%**	**10**	**5**	**Institutional Requirements**
Specialized veterinary courses (Anatomy, Physiology, Pharmacology, Pathology, Surgery', Internal Medicine, Preventive Medicine,	**91.7%**	**270**	**66**	**College Requirements**

parasitology, Public Health, etc.)				
Not specified, possibly integrated within the college Requirements as the college consists of a single academic specialization.	**-**	**-**	**-**	**Departmental Requirements**
Practical training in veterinary hospitals , field work, or laboratories. This is a moderate graduation requirement.	**1.3%**	**15**	**1**	**Summer Training**
o elective or additional program components are specified.				**Others**

7- Program Description:

Stage	Course code	Course name	Credit hours	
			Theoretical	Practical
First	VET101	General Biology	2 hours	2 hours
First	VET104	Biological Risk Management	2 hours	2 hours
First	VET103	Animal Management	2 hours	3 hours
First	VET107	Animal Breeding and Improvement	2 hours	
First	UOB102	English	2 hours	
First	UOB104	Democracy	2 hours	
First	UOB101	Arabic	2 hours	
First	UOB103	Computer	2 hours	

First	VET108	Poultry Management	1hours	2 hours
First	VET102	Osteology and Myology	2 hours	2 hours
First	VET105	General Chemistry	3hours	1 hours
Second	VET205	Animal Nutrition	2 hours	2 hours
Second	UOB1022	English	2 hours	2 hours
Second		General Microbiology	3 hours	2 hours
Second	UOB1032	Computer	2 hours	2 hours
Second	UOB205	Baath Crimes	2 hours	2 hours
Second	VET201	Visceral anatomy	2 hours	2 hours
Second	VET202	Basic histology	2 hours	2 hours

Second	VET208	Systemic histology &embryology	2 hours	2 hours
Second	VET203	General physiology	2 hours	2 hours
Second	VET204	Basic biochemistry	2 hours	2 hours
Clinical Veterinary Practice				4hours
Third	-	Parasitology (First Semester)	3hours	2 hours
Third	-	Nematodes,) Cestodes, (Trematodes	3hours	2 hours
Third		Parasitology (Second Semester)	3hours	3 hours
Third		Protozoa and) (Insects	3hours	2 hours

Third		Pathology	3hours	2 hours
Third		General Microbiology	2 hours	2 hours
Third		Special Microbiology	2 hours	2 hours
Third		Food Hygiene	2 hours	2 hours
Third	3402PHR	Immunology	3 hours)	3 hours
Third	3201TOX	Virology	2 hours	2 hours
Third		Pharmacology	2 hours	2 hours
Third		Toxicology	3 hours	2hours
Fourth		Zoonotic Diseases	2 hours	
Fourth	FDS	Female Fertility and Reproductive Diseases	2 hours	2 hours
Fourth		Internal Medicine		
Fourth	OBS	Obstetrics	2 hours	2 hours

Fourth	SUR	Surgery	2 hours	3 hours
Fourth	CLN	Clinic	Weekly for subject	4 hours
Fourth	INF	Infectious Diseases	2 hours	2 hours
Fourth	CLP	Clinical Pathology	2 hours	2 hours
Fifth	Annual	Poultry Diseases	2 hours	2 hours
Fifth	Annual	Pathological Anatomy	2 hours	1 hours
Fifth	Semester	Poultry Disease Clinics	-	4 hours
Fifth		Surgery	2 hours	2 hours
Fifth		Clinics	-	4 hours
Fifth	MED	Internal Medicine	3 hours	
Fifth	CLN	Clinics		12 hours

Fifth		Professional Ethics	1 hours	
Fifth	Annual	Forensic Medicine	-	1 hours
Fifth	MDS	Male Fertility and Reproductive Diseases	1 hours	2 hours
Fifth	RD	Reproductive Techniques	1 hours	2 hours
Fifth	CLN	Clinics	Weekly	16 hours
Fifth	SUR	Small Animal Surgery	2 hours	3 hours
Fifth	CLN	Clinics	Weekly	16 hours
Fifth	Semester	Fish Diseases	2 hours	2 hours
Fifth		Obstetrics	2 hours	2 hours
Fifth	Annual	Poultry Disease Clinics	4 hours	-

Master		Parasitic Immunology	2 hours	2 hours
Master		Nematodes	3 hours	2 hours
Master		Cestodes	3 hours	2 hours
Master		Trematodes	2 hours	2 hours
Master		Medical Insects	2 hours	2 hours
Master		Protozoa	hours 3	2 hours
Master		Advanced Anatomy	2 hours	3 hours
Master		Advanced Bacteriology	2 hours	4 hours
Master		Advanced Bacteriology	2 hours	2 hours
Master		Advanced Immunology	1 hours	2 hours
Master		Virology	2 hours	2 hours
Master		Advanced Virology	2 hours	2 hours

Master		Advanced Mycology	-	3 hours
Master		Molecular Biology	2 hours	(2) ساعة
Master		Clinical Microbiology	2 hours	3 hours
Master		Anatomical Techniques	2 hours	3 hours
Master		Avian Anatomy	2 hours	3 hours
Master		Advanced Histology	2 hours	3 hours
Master		Histological Techniques	2 hours	3 hours
Master		Advanced Embryology	2 hours	2 hours
Master		Parasitic Epidemiology	2 hours	2 hours

Master		Zoonotic Parasitic Diseases	2 hours	2 hours
Master		Advanced Parasitic Diseases	2 hours	2 hours
Master		Ixodidae (Ticks)	2 hours	2 hours
PHD		Genetic Engineering	2 hours	3 hours
PHD		Comparative Anatomy	2 hours	3 hours
PHD		Avian Anatomy	2 hours	3 hours
PHD		Laboratory Animal Anatomy	2 hours	3 hours
PHD		Neuroanatomy	2 hours	3 hours

PHD		Comparative Histology	2 hours	3 hours
PHD		Comparative Embryology	hours 3	2 hours
Diploma		Histochemistry	1 hours	
		General Microbiology	1 hours	
Diploma		Advanced Immunology 1	1 hours	2 hours
Diploma		Zoonotic Viral Diseases	1 hours	2 hours

8- Expected Learning Outcomes of the Program	
Knowledge:	
1-Familiarity with basic sciences such as anatomy, physiology, biochemistry, microbiology, and pharmacology, as well as understanding the scientific foundations of animal diseases, including infectious and non-infectious diseases.	3- Recognizing the basics of animal nutrition and its effects on health and production**.** 4- Understanding modern diagnostic techniques in veterinary medicine such as radiology, ultrasound, laboratory analyses, and surgical procedures.

2- Understanding the principles of epidemiology and veterinary public health.	
Skills:	
1- Conducting various clinical examinations on animals efficiently and using laboratory tools and techniques to diagnose diseases. 2- Applying veterinary treatment methods including surgical, pharmaceutical, and preventive measures, and handling veterinary emergencies efficiently.	**3-** Implementing vaccination and immunization programs for the prevention of animal diseases. **4-** Evaluating the quality and safety of animal products and contributing to food safety.
Values:	
1- Professional and Ethical Responsibility: Commitment to ethical principles in dealing with animals and ensuring humane and fair veterinary care.	2- Animal Welfare: Respecting animal rights and ensuring their welfare according to veterinary and ethical principles.

3- Community Service: Contributing to improving public health by preventing zoonotic diseases and promoting food safety.	4-Commitment to Quality and Excellence: Continuously striving to provide high-quality veterinary services according to international standards, dedication, teamwork, and collaboration with colleagues and other specialists to achieve the best results in veterinary care. Keeping pace with innovation and development to encourage scientific research and creative thinking in the field of veterinary medicine.

D - General and Transferable Qualifying Skills (Other skills related to employability and personal development).

Dealing with field and laboratory environmental measuring devices. This course description provides a brief summary of the most important characteristics of the course and the expected learning outcomes to be achieved by the student, demonstrating whether he/she has made the best use of available learning opportunities.

9- Teaching and Learning Strategies

1 -Interactive Learning: Encourages interaction between students and the teacher through discussions, direct questions, daily exams, group projects, read and video lectures.

2- Problem-Based Learning: Diagnosing a real problem from the labor market or student needs, prompting students to think critically and seek solutions based on the academic program offered at the college, scientific discussions between student and teacher.

3- Project-Based Learning: Giving students scientific projects using multiple skills.

Problem-solving method

E-learning method ...

Cooperative learning method ...

Learning through play method ...

Brainstorming method ...

10- Assessment Methods

* Preparing scientific reports on various lecture topics.

* Weekly and monthly exams, semester reports, and end-of-year exam.

* Daily performance and interaction in scientific discussion during lectures between student and teacher.

11- Teaching Staff

Faculty Members

Academic Rank	Specialization		**Special Requirements/Skills (if any)**		**Number of Teaching Staff**	
	General	Specific				
Professor	46				Staff	Lecturer
Assistant professor	65				245	None
Lecturer	86	-				
Assistant lecturer	48					

12- Acceptance Criteria
Admission is subject to the laws and instructions of the centralized ministerial admission for both undergraduate and postgraduate studies.

13. The most important sources of information about the program
College of Veterinary Medicine / University of Baghdad *** Official Website (Arabic): https://covm.uobaghdad.edu.iq/** ***Official Website (English): https://en.uobaghdad.edu.iq/** **University of Baghdad** **Official Website (Arabic): https://uobaghdad.edu.iq/** **Official Website (English): https://en.uobaghdad.edu.iq/** **Ministry of Higher Education and Scientific Research** **Official Website: https://mohesr.gov.iq/** **College social media Pages**

14- Program Development Plan
1- Using new concepts in the field of economic mathematics and using electronic devices to present information and issues.

مخطط مهارات المنهج/ وحدة بحوث الامراض المشتركة

يرجى وضع اشارة في المربعات المقابلة لمخرجات التعلم الفردية من البرنامج الخاضعة للتقييم

			مخرجات التعلم المطلوبة من البرنامج																					
السنة / المستوى	رمز المقرر	اسم المقرر	أساسي أم اختياري	الاهداف المعرفية				الاهداف المهاراتية الخاصة بالبرنامج				الاهداف الوجدانية والقيمية				المهارات العامة والتأهيلية المنقولة (المهارات الأخرى المتعلقة بقابلية التوظيف والتطور الشخصي)			
				أ1	أ2	أ3	أ4	ب1	ب2	ب3	ب4	ج1	ج2	ج3	ج4	د1	د2	د3	د4
الأولى		بايلوجي	اساسي	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		التشريح		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		مخاطر بيولوجية	اساسي	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√

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الرابعة		المعدية	اساسي	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		تشخيصات مرضية	اساسي	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		امراض الدواجن	اساسي	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		التشريح المرضي	اساسي	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		سريريات امراض	اساسي	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		الجراحة	اساسي	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		الطب الباطني	اساسي	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

الخامسة		السريريات	اساسي	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		اخلاقيات المهنة	اساسي	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		الطب العدلي	اساسي	x	x	x	x	X	x	x	X	x	x	X	x	x	x	x	X
		امراض الأسماك	اساسي	X	X	x	x	X	x	x	X	x	x	X	x	x	x	x	X
		التوليد	اساسي	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		سريريات امراض الدواجن	اساسي	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
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الماجستير		اوالي طفيلية	اساسي	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

	مثقوبات	اساسي	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	تقنيات تشريحية		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	ديدان اسطوانية	اساسي	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	حشرات طبية	اساسي	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

مخطط مهارات المنهج																							
يرجى وضع اشارة في المربعات المقابلة لمخرجات التعلم الفردية من البرنامج الخاضعة للتقييم																							
			مخرجات التعلم المطلوبة من البرنامج																				
السنة / المستوى	رمز المقرر	اسم المقرر	أساسي أم اختياري	الاهداف المعرفية				الاهداف المهاراتية الخاصة بالبرنامج				الاهداف الوجدانية والقيمية				المهارات العامة والتأهيلية المنقولة (المهارات الأخرى المتعلقة بقابلية التوظيف والتطور الشخصي)							
				أ 1	أ2	أ 3	أ 4	ب 1	ب2	ب3	ب 4	ج1	ج 2	ج3	ج 4	د1	د 2	د3	د 4				
الدكتوراه		هندسة وراثية ف1	أساسي	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√				
		فسلجة الجراثيم ف2	أساسي	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√				
		طفيليات سريري	أساسي	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√				
		طفيليات مشتركة	أساسي	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√				
		انسجة متقدم	أساسي	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√				

	طفيليات متقدم	أساسي	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	تشريح الدواجن	أساسي	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	وبائية طفيليات	أساسي	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	تقنيات نسيجية	أساسي	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	صحة غذاء متقدم,كيمياء الغذاء والتغذية	أساسي	x	x	X	X	x	x	x	x	x	x	x	x	x	x	x	x	X	x	x

Course Description:

This course description provides a brief summary of the most important characteristics of the course and the expected learning outcomes to be achieved by the student, demonstrating whether he/she has made the best use of available learning opportunities.

T	Scientific department	Cours name / code	Available Attendance Forms	Number of Study Hours	Semester/Year
1	Public health	-	Attendance	Bachelor (120 hours)	-
2	Poultry disease	-	- Theoretical and practical attendance lectures	(50 hours basic)	First and Second Semester (2024-2025)
3	Microbiology	Introduction to Microbiology Classification and Growth of bacteria Classification of Viruses	Theoretical and practical attendance lectures	(90 hours for undergraduate studies)	Semester

		Classification of Fungi **Introduction to Immunology**			
4	**Zoonotic Diseases Research Unit**	**-**	**Attendance**	**Master (39) Higher Diploma (33)**	**Semester**
5	**Internal medicine**	**General Veterinary Medicine and Surgery**	**Full attendance**	**One course / (26) units / (12) hours theoretical (28) hours practical per week**	**Two courses per year**
				Total / (600) study hours per course over (15) weeks	
6	**Parasitology**	**-**	**Practical and theoretical attendance lectures only**	**(90 hours for undergraduate studies)**	**Semester**

7	**Physiology, Biochemistry and Pharmacology**	**BIOCHEMISTRY BCH 402**	Attendance	**4**	**Semester**
8	**Anatomy and Histology**	**-**	**Practical and theoretical attendance lectures only**	**(90 hours for undergraduate studies)**	**Semester**
9	**Surgery and Obstetrics**	**FDS, OBS, MSD, RT, LAS, and SAS**	**Attendance**	**30 hours**	**Fourth stage**
				3 units	**Fifth stage**

Department name	week	Hours	Required Learning Outcomes	Module/Topic Name	Teaching Method	Assessment Method
Microbiology	1-4	12	**4-1**	**Introduction to microbiology**	Lecture	Exams
	5-8	12	**8-5**	**Classification and growth of bacteria**	Lecture	Exams
	9-15	21	**15-9**	**Classification of viruses**	Lecture	Exams
	16-32	24	**32-16**	**Classification of fungi**	Lecture	Exams
	24-30	21	**30-24**	**Introduction to immunology**	Lecture	Exams
Zoonotic Diseases Research Unit	15 weeks	1 Theoretical	**Clinical Bacteriology**	**Clinical Bacteriology and Zoonotic Bacteriology (Diploma & Master)**	Theoretical and practical lectures	Quizzes, exams, assignments

	15 weeks	1 Theoretical	**Zoonotic Bacteriology**	**Zoonotic Bacteriology (Diploma & Master)**	Theoretical and practical lectures	Quizzes, exams, assignments
	15 weeks	1 Theoretical	**Clinical Immunology**	**Clinical Immunology (Diploma & Master)**	Theoretical and practical lectures	Quizzes, exams, assignments
	15 weeks	1 Theoretical	**Zoonotic Parasitology**	**Zoonotic Parasitology (Diploma & Master)**	Theoretical and practical lectures	Quizzes, exams, assignments
	15 weeks	1 Theoretical	**Zoonotic Virology**	**Zoonotic Virology (Diploma & Master)**	Theoretical and practical lectures	Quizzes, exams, assignments
	15 weeks	1 Theoretical	**Zoonotic Mycology**	**Zoonotic Mycology (Diploma & Master)**	Theoretical and practical lectures	Quizzes, exams, assignments
	15 weeks	**1 Theoretical**	**Molecular Biology**	**Molecular Biology (Diploma & Master)**	Theoretical and practical lectures	Quizzes, exams, assignments

	15 weeks	**2Practical**	**Zoonotic Epidemiology**	**Zoonotic Epidemiology (Diploma & Master)**	Theoretical and practical lectures	Quizzes, exams, assignments
	15 weeks	**1 Theoretical**	**Pathological Anatomy**	**Pathological Anatomy (Diploma & Master)**	Theoretical and practical lectures	Quizzes, exams, assignments
Anatomy and histology	1-4	**12**	**4-1**	**Anatomy1**	Lecture	Exams
	5-8	**12**	**8-5**	**Anatomy2**	Lecture	Exams
	9-15	**21**	**15-9**	**Histology**	Lecture	Exams
	16-23	**24**	**23-16**	**Embryology**	Lecture	Exams
	24-30	**21**	**30-24**	**Advance histology**	Lecture	Exams
	1-4	**12**	**4-1**	**Comparative histology**	Lecture	Exams
	5-8	**12**	**8-5**	**Comparative histology**	Lecture	Exams

Parasitology	1-4	**12**	**4-1**	**Trematoda**	Lecture	Exams
	5-8	**12**	**8-5**	**Cestode**	Lecture	Exams
	9-15	**21**	**15-9**	**Nematoda**	Lecture	Exams
	16-23	**24**	**23-16**	**Protozoa**	Lecture	Exams
	24-30	**21**	**30-24**	**Arthropoda**	Lecture	Exams

10 Course Structure:

Department name	week	Hours	Required Learning Outcomes	Module/Topic Name	Teaching Method	Assessment Method
Public Health	**1-4**	**12**	**Public Health**	**Management, Nutrition and Poultry**	Lectures	Quizzes, exams assignments
	5-8	**12**	Public Health	**Management, Nutrition and Poultry**	Lectures	Quizzes, exams assignments
	9-15	**21**	Public Health	**Animal Nutrition**	Lectures	Quizzes, exams assignments
	16-23	**24**	Public Health	**Food Hygiene**	Lectures	Quizzes, exams assignments
	24-30	**21**	Public Health	**Milk and Meat Hygiene**	Lectures	Quizzes, exams

						assignments
Fourth class poultry disease						
Poultry Diseases	**1-2**	**4**	**Lecture**	**Gambaro disease Newcastle disease avian infiuenza virial arthritis**	Theoretical lecture	Written examination
	3-4	**4**	Lecture	**Mareks disease lym-phoid leucosis Avian Encephalomyelitis Infectious stunting syndrome**	Theoretical lecture	Written examination
	5-6-7	**6**	Lecture	**Pox disease Adeno virus disease (EDS,HHS,IBH)**	Theoretical lecture	Written examination

				CIA		
	8	**2**	Lecture	**SEMESTER EXA M**	Theoretical lecture	Written examination
	9-10	**4**	Lecture	**Infectious bronchitis** **ILT** **DUCK VIRAL HEPITIS**	Theoretical lecture	Written examination
	11-12-13	**6**	Lecture	**Mycoplasma disease** **Fowl cholera disease** **Infectious coryza disease**	**Theoretical lecture**	Written examination
	1	**4**	Lecture	**Poultry house** **Cleaning and disinfections coryza**	**Theoretic lecture**	Written examination

	2	**8**	Lecture	**Anatomy and examination** **Case history**	Practical lecture	Slide examination
	3	**8**	Lecture	**Vaccination program** **Poultry nutrition**	Practical lecture	Slide examination
Slide examination	**4**	**8**	Lecture	**Newcastle disease** **Avian influenzas**	Practical lecture	Slide examination
	5	**8**	Lecture	**Gambaro disease** **Viral arthritis**	Practical lecture	Slide examination
	6	**8**	Lecture	**Mareks disease lymphoid leucosis**	Practical lecture	Slide examination
	7	**8**	Lecture	**Avian** **Encephalomyelitis**	Practical lecture	Slide examination

				Infectious stunting Syndrome		
	8	**8**	Lecture	**Pox disease CIA**	Practical lecture	Slide examination
	9	**8**	Lecture	**Adeno virus disease (EDS,HHS,IBH)**	Practical lecture	Slide examination
	10	**8**	Lecture	**SEMESTER EXAM**	Practical lecture	Slide examination
	11	**8**	Lecture	**Infectious bronchitis ILT DUCK VIRAL HEPITIS**	Practical lecture	Slide examination
	12	**8**	Lecture	**Mycoplasma disease**	Practical lecture	Slide examination

	13	**8**	Lecture	**Fowl cholera disease Infectious coryza disease**	Practical lecture	Slide examination

2. Course Structure						
Department name	**week**	**Hours**	Required Learning Outcomes	Module/Topic Name	Teaching Method	Assessment Method
Surgery and Obstetrics		45 hours total	Surgery / P1 Fourth Stage Theoretical	15. Introduction and classification of surgery 2- Sterilization (physical and chemical and modern fertilization techniques) 3- Shock and fluid therapy Wounds 4- Hemorrhage and hemostasis 5- Abscess, hematoma, and cysts 6- Fistula, sinuses, ulcers, and gangrene	Field, lab, and lectures	Daily and semester

				Tumors and burns 7- Radiology: (definition, principle, properties, types, factors affecting X-rays) 8- Contrast radiography 9- Radiation protection and hazards 10- Modern diagnostic methods: (CT scan, MRI, ultrasound, digital radiography, gamma camera) 11- Fractures: (definition, cause, classification,		

				treatment, fracture healing, complications		
		30 hours total	Surgery / P1 Fourth Stage Practical	15. Introduction to operating theatre 2- Sterilization 3- Surgical instruments 4- Preoperative preparation 5- Suture materials (suture material and suture patterns) 6- X-rays 7- Fractures	Field, lab, and lectures	Daily and semester
			Surgery / P2 Fourth Stage Theoretical	15. Anesthesia (restraint and terminology) 2- Introduction to anesthesia and	Field and lectures	Daily and semester

				influencing factors 3- Pre-anesthesia 4- Muscle relaxants 5- Local anesthesia 6- General anesthesia 7- Anesthetic accidents 8- Lameness 9- Laser surgery 10- Endoscopic surgery and laparoscopy		
		30 hours	Surgery / P2 Fourth Stage Practical	15. Local anesthesia 2- General anesthesia 3- Intra-articular injections	Field and lectures	Daily and semester

				4- Tendon surgery 5- Laser and endoscopic surgery 6- Dehorning and disbudding		
		30hours	Surgery / P1 Fifth Stage Theoretical	15 . Digestive system (diseases of salivary glands and tongue) 2- Dental diseases 3- Soft and hard palate diseases 4- Pharyngeal diseases 5- Esophageal diseases 6- Simple stomach diseases	Field and lectures	Daily and semester

				7- Large stomach diseases 8- Accessory digestive organ diseases 9- Hernia 10- Cardiovascular system 11- Ear surgery: aural hematoma, ear cropping 12- Eye surgery 13- Central nervous system		
		30 hours	Surgery / P1 Fifth Stage Practical	15. Digestive system: tooth extraction 2- Partial glossectomy 3- Esophagectomy 4- Gastrectomy	Field and lectures	Daily and semester

				5- Pylorectomy and pyloromyotomy 6- Enterectomy 7- Enterectomy 8- Rumenotomy 9- Partial and total splenectomy 10- Partial hepatectomy 11- Ear surgery		
		30 hours	Surgery / P2 Fifth Stage Theoretical	15 . Respiratory system: injury to nostrils and nasal cavity 2- Sinus injury 3- Laryngeal and tracheal injury 4- Lung injury 5- Chest wall injury	Field and lectures	Daily and semester

				6- Male reproductive system: penile and preputial injury, preparation for teasing, castration 7- Female reproductive system: ovariectomy, ovariohysterectomy, cesarean section, rectovaginal fistula, pneumovagina treatment 8- Urinary system: kidney and ureter injury, bladder injury, urethral injury		

				9- Mammary gland: mammary gland injury, teat surgery		
		30 hours	Surgery / P2 Fifth Stage Practical	15 . Respiratory system: trephination 2- Laryngectomy 3- Tracheotomy 4- Rib resection 5- Thoracotomy 6- Urinary system: nephrectomy and nephrotomy 7- Cystectomy and cystostomy 8- Urethrectomy and urethrostomy and urethral fistula	Field and lectures	

				9- Male reproductive system: castration 10- Penile surgery: circumcision, chordectomy, penile amputation 11- Female reproductive system: ovariectomy, ovariohysterectomy, cesarean section 12- Mastectomy 13- Teat fistula		
		30 hours	Obstetrics / Female Fertility Fourth Stage Theoretical	15 . Anatomy of female reproductive organs	Field and lectures	Daily and semester

				2- Puberty and maturity 3- Estrous cycle in animals 4- Estrus detection 5- Seasonality and its effect on reproduction 6- Reproductive hormones 7- Temporary and permanent infertility 8- Reproduction in mares 9- Reproduction in buffalo and camels 10- Reproduction in dogs and cats		

		30 hours	Obstetrics / Female Fertility Fourth Stage Practical	15. Anatomy of female reproductive organs in animals 2- Examination of female reproductive organs in animals 3- Measurement of female reproductive organs in animals 4- Uses of reproductive hormones 5- Vaginal and uterine samples 6- Congenital anomalies of female reproductive organs in animals 7- Intrauterine therapy	Field and lectures	Daily and semester

				8- Reproductive performance		
		30 hours	Obstetrics Second Semester / Fourth Stage Theoretical	15. Pregnancy diagnosis from the dam 2- Factors affecting pregnancy period (normal and abnormal) 3- Fetal membranes and their problems 4- Pregnancy problems 5- Signs of approaching parturition 6- Stages of labor 7- Retained fetal membranes 8- Puerperal period	Field and lectures	Daily and semester

		30 hours	Obstetrics Second Semester / Fourth Stage Practical	15. Normal fetal position in the birth canal 2- Abnormal fetal position in the birth canal 3- Correction of abnormal fetal positions 4- Causes of dystocia in animals 5- Forced extraction 6- Fetotomy 7- Cesarean section 8- Anatomical and histological division of fetal membranes	Field and lectures	Daily and semester
		30 hours	Obstetrics / Male Fertility Fifth	15. Puberty and maturity in males	Field and lectures	Daily and semester

			Stage Theoretical / Sem.1	2- Hormonal control of the male reproductive system 3- Spermatogenesis 4- Semen composition 5- Sperm metabolism 6- Semen collection methods 7- Semen evaluation methods 8- Semen dilution methods 9- Semen storage methods		

				10- Artificial insemination and sperm transfer 11- Infertility in male animals		
		30 hours	Obstetrics / Male Fertility Fifth Stage Practical / Sem.1	15. Anatomy of male reproductive organs 2- Breeding soundness 3- Semen collection 4- Semen evaluation (gross, volume, color) 5- Semen evaluation (gross, mass motility, individual motility)	Field and lectures	Daily and semester

				6- Semen evaluation (percentage of dead, live, and abnormal sperm) 7- Semen dilution 8- Semen storage (liquid) 9- Semen storage (frozen) 10- Insemination techniques 11- Infertility in male animals		
		30 hours	Obstetrics / Reproductive Techniques Fifth Stage Theoretical	15. Ultrasound – general information 2- Ultrasound in large animals 3- Ultrasound in small animals	Field and lectures	Daily and semester

				4- Estrus synchronization in cattle 5- Estrus synchronization in sheep and goats 6- Control of puberty age 7- Superovulation 8- Embryo transfer 9- Intrauterine insemination by endoscopy 10- Methods of oocyte collection and maturation 11- Artificial insemination		

				12- Sex determination of sperm 13- Cloning and embryo splitting 14- Suppression of reproductive activity		
		30 hours	Obstetrics / Reproductive Techniques Fifth Stage Practical	15. Clinical applications of ultrasound 2- Estrus synchronization 3- Control of puberty age 4- Superovulation 5- Embryo transfer 6- Intrauterine insemination	Field and lectures	Daily and semester

				7- Methods of oocyte collection and maturation 8- Artificial insemination 9- Sex determination of sperm 10- Cloning and embryo splitting 11- Suppression of reproductive activity		

Department name	week	Hours	Required Learning Outcomes	Module/Topic Name	Teaching Method	Assessment Method
Physiology, Biochemistry and Pharmacology	15	150	Cholinesterase activity Organophosphate poisoning in rats or mice Effects of xylazine in sheep Diuretics Aspirin toxicity (compared to acetaminophen) Veterinary pharmaceutical preparations Neurobehavioral effects of	First Semester Drugs acting on the cardiovascular system and blood Chemotherapy of microbial diseases Chemotherapy of parasitic diseases Autacoids and anti-inflammatory drugs Endocrine pharmacology and hormones Dermatological pharmacology	Oral examination Assessment Daily evaluation 3- Report writing	Daily exam

			drugs and toxic substances **Effects of drugs on the isolated heart**	**Total for second semester** **Biometrics** **Nature and sources of drugs** **Pharmaceutical preparations and dosage forms** **Routes of drug administration** **Differences in drug response (species and individuals)** **Induction of microsomal enzymes and drug response** **Drug excretion** **Prescription writing** **Dispensing**		

				Drug action on the eye **Drug action on isolated guinea pig ileum** **Drugs and their effects on rabbit intestine** **Drugs and their effects on rabbit uterus** **Neuromuscular blockade (in frog)** **Drug dose calculation** **Xylazine-ketamine anesthesia in rabbits** **Dose-response relationships (ED50, LD50, TI)**		

				Anticonvulsants, blood determination		

4. Course Structure						
Department name	**week**	**Hours**	**Required Learning Outcomes**	**Module/Topic Name**	**Teaching Method**	**Assessment Method**
		45 hours per semester	**Internal Medicine / MED1 Fourth Stage Theoretical**	**1. Digestive system diseases** **2- Respiratory system diseases** **3- Joint and muscle diseases** **4- Nervous system diseases** **5- Skin and coat diseases**	**Lectures**	Daily and semester
		60 hours per semester	**Practice2 / CLIN2 Fourth Stage Practical**	**Clinical cases in various clinical sites**	**Field, lectures, and lab**	**Daily and semester**

		60 hours per semester	**Clinics / CLIN3 Fifth Stage Practical**	**Clinical cases in various clinical sites**	**Field, lectures, and lab**	**Daily and semester**
		45 hours per semester	**Internal Medicine / MED2 Fifth Stage Theoretical**	**1. Metabolic diseases** **2- Diseases of mineral and essential element deficiency** **3- Toxins and their treatment**	**Lectures**	**Daily and semester**
		60 hours total	**Practice / CLIN1 Third Stage Practical**	**1. Data collection, history, posture, and**	**Field, lectures, and lab**	**Daily and semester**

				behavior of the animal **2. Clinical examination methods and temperature measurement** **3. General clinical examination** **- (Pulse rate and respiratory rate)** **4. Skin and external covering** **5. Cardiovascular system** **6. Digestive system** **7. First examination**		

				8. Respiratory system **9. Lymph nodes** **10. Udder and milk examination** **11. Drug administration** **12. Vaccines and drugs used in veterinary medicine** **13. Allergy tests** **14. Routine clinical examination of the animal and examination card**		

				15. Second examination		

11- Infrastructure

Department	**Required Textbooks**	**Main References (Sources)**	**Recommended Books and References (Scientific journals, reports)**	**Electronic References and Internet Sites**
Internal and Preventive Medicine	**VETERINARY MEDICINE: A TEXTBOOK OF THE DISEASES OF CATTLE, HORSES, SHEEP, PIGS, CATS ELEVENTH EDITION -Clinical EXAMINATIO**	**Sheep ,goats ,and cervid medicine book**	**-**	**Merck veterinary manual-online**

	N of farm animals			
Microbiology	**Microbiology, Quinn, 2008.** **2- Veterinary Microbiology, Quinn, 2008.** **3- Veterinary Immunology, Tizard, 2016.** **4- Gen Cloning and DNA analysis, Brown, 2016.** **5- Fungal Botany** **6- Immunology, Kuby, 2018.**	**1. Clinical Veterinary Microbiology, Quinn, 2008.** **2. Veterinary Microbiology, Quinn, 2008.** **3. Veterinary Immunology, Tizard, 2016.** **4. Gen Cloning and DNA analysis, Brown, 2016.** **5. Fungal Botany**	**-**	**CDC, Medical Lab**

		Immunology, Kuby, 2018.		
Parasitology	**Soulsby (1982)**	**Tylor) (2007**	**Vet. Parasitol. J, Parasitology Res**	**CDC. Web.**
Poultry Diseases	**Pathological Basis of Vet. Diseases 1- 2- Text veterinary Pathology (Smith)**	**-**	**Avian pathology, disease**	**None**
Anatomy and Histology	**.Dellmann, H. D. 1998. Textbook of Veterinary Histology. 5th Ed. Lippincott, Williams and Wilkins, USA. (HIST) Bacha, W.J. and L. M. Bacha. 2000. Color Atlas of**	**Applied Veterinary Histology. (3rd Ed). Williams and Wilkins, Baltimore.(HIST) 5. Veterinary Developmental**	**Veterinary Developmental Anatomy- Veterinary Embryology, 2011. (EMB)**	**Google scholar**

	Veterinary Histology, Lippincott William and Wilkins, USA.(HIST)Embryology, 2011. (EMB)	**Anatomy-Veterinary Embryology, 2011. (EMB) 6. langman's medical embryology 9th ed. (EMB)**		
Surgery and Obstetrics	**-**	**-**	**-**	
Physiology, Biochemistry and Pharmacology	**Kanok**	**Kaidon**	**Yerazil**	**Google Scholar**
Public Health	**MCDonald Book,2019**	**Vet book, animal management2023**	**Text book of milk hygiene 2014**	**Text book of meat hygiene W.Ernst-**

				browning2 0166
Zoonotic Diseases	**-**	**-**	**-**	**-**