

**Ministry of Higher Education and Scientific Research
Scientific Supervision and Scientific Evaluation Apparatus
Directorate of Quality Assurance and Academic Accreditation
Accreditation Department**



Academic Program and Course Description Guide

2026

Introduction:

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 Examiner Program.

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.

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: .. University of Basrah.....

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

Scientific Department: .. Veterinary Public Health.....

Academic or Professional Program Name:

Final Certificate Name: Bachelors.....

Academic System: By Semester

Description Preparation Date: ٢٠٢٦/٦/١٧

File Completion Date: ٢٠٢٦/٦/١٧

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

The College of Veterinary Medicine aims to prepare graduates in the field of veterinary medicine to work in government teaching veterinary hospitals and to benefit from specialization in the practical and applied field..

2. Program Mission

Working to prepare and graduate leading scientific and leadership competencies in the field of veterinary medicine and poultry management, and in developing the knowledge base in the field of scientific research in higher education and in serving the local, regional and international community, as well as training and refining students' minds scientifically and intellectually, emphasizing social and cultural values and responding to the requirements of the local market

3. Program Objectives

Understanding veterinary medicine principles and problem-solving skills related to poultry management, given its importance to society.

A2- Addressing administrative problems, developing solutions, and understanding modern poultry project management methods.

3- Understanding proper poultry management techniques and labor market demands, recognizing the economic importance of these projects to the country.

4. Program Accreditation

Does the program have program accreditation? And from which agency?

5. Other external influences

Is there a sponsor for the program?

6. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements	1	2		basic
College Requirements	1	2		
Department Requirements	1	2		
Summer Training				
Other				

* This can include notes whether the course is basic or optional.

7. Program Description

Year/Level	Course Code	Course Name	Credit Hours	
2025–2026 I first stage		Poultry management	theoretical	practical

8. Expected learning outcomes of the program

Knowledge

Learning Outcomes 1

Keeping pace with developments in poultry farming and management

Part 2: Communicating with and adapting all that is new or useful

Skills

Learning Outcomes 2

The ability to understand and practically apply poultry management principles.

	B2– Dealing with crises and problems facing poultry farming, such as disease outbreaks, and how to manage them administratively.
Learning Outcomes 3	Learning Outcomes Statement 3
Ethics	
Learning Outcomes 4	Developing students' abilities to share ideas 4
Learning Outcomes 5	Learning Outcomes Statement 5

9. Teaching and Learning Strategies

1. Explain the scientific material to the students in detail.
2. Engage students in creating posters and miniature models of poultry farms.
3. Facilitate discussion and dialogue about vocabulary related to the topic..

10. Evaluation methods

Weekly, monthly, and daily quizzes, and the end-of-year exam.

Preparing various reports related to the Poultry Management course..

11. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
	Veterinary Medicine and Surgery	Poultry management				Assistant proof

Professional Development

Mentoring new faculty members

Briefly describes the process used to mentor new, visiting, full-time, and part-time faculty at the institution and department level.

Professional development of faculty members

Briefly describe the academic and professional development plan and arrangements for faculty such as teaching and learning strategies, assessment of learning outcomes, professional development, etc.

12. Acceptance Criterion

(Setting regulations related to enrollment in the college or institute, whether central admission or others)

13. The most important sources of information about the program

1. Poultry Management
2. Poultry Production
2. Guide to Commercial Production of Laying Hens
- Guide to Commercial Production of Broiler Breeder Breeders.

14. Program Development Plan

Using new concepts in poultry management and employing artificial intelligence in establishing poultry projects

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
2025-2026		Poultry management	Basic												

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

Course Description Form

1. Course Name:					
2. Course Code:					
3. Semester / Year:					
4. Description Preparation Date:					
5. Available Attendance Forms:					
6. Number of Credit Hours (Total) / Number of Units (Total)					
7. Course administrator's name (mention all, if more than one name)					
Name:					
Email:					
8. Course Objectives					
Course Objectives			• • •		
9. Teaching and Learning Strategies					
Strategy					
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method

11. Course Evaluation					
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports etc					
12. Learning and Teaching Resources					
Required textbooks (curricular books, if any)					
Main references (sources)					
Recommended books and references (scientific journals, reports...)					
Electronic References, Websites					

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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 OF BASRAH

Faculty/Institute: Collage of Veterinary Medicine

Scientific Department: Internal & Preventive Medicine

Academic or Professional Program Name:

Final Certificate Name:

Academic System:

Description Preparation Date:

File Completion Date:

Signature:

Head of Department Name:

Date:

Signature:

Prof. Dr. Hussein Ali Naji

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

15. Program Vision

The Department of Internal and Preventive Medicine aspires to be the primary cornerstone supporting the major clinical disciplines within the College of Veterinary Medicine. It aims to contribute to society by graduating veterinarians who possess comprehensive knowledge and expertise in veterinary clinical sciences, as this specialty constitutes a fundamental component of the professional identity and competence of the veterinary practitioner.

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16. Program Mission

- 1. Preparing and qualifying distinguished graduates in the field of Veterinary Medicine.**
- 2. Developing the academic staff and fostering a culture of scientific research through the encouragement of research activities, participation in scientific conferences, and the organization of training courses and workshops.**
- 3. Developing and establishing specialized laboratories and scientific units in advanced and subspecialized fields of Internal and Preventive Veterinary Medicine.**

17. Program Objectives

- 1. Keeping pace with advancements and developments in the fields of Internal and Preventive Medicine through the continuous updating of undergraduate and postgraduate curricula.**
- 2. Providing community services by diagnosing and treating diseases related to Internal Medicine, as well as offering scientific consultations to animal owners and livestock production enterprises.**
- 3. Organizing training courses for veterinarians working in governmental institutions to sustain scientific collaboration between**

them and the College, enhance professional performance, and strengthen their scientific knowledge base.

4. Strengthening collaborative ties between the College and various governmental institutions, as well as other academic colleges, through joint research projects aimed at addressing the challenges facing the animal wealth and livestock sector.

18. Program Accreditation

Not found

19. Other external influences

Not found

20. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements	17	46		
College Requirements	yes			
Department Requirements	yes			
Summer Training	yes			
Other				

* This can include notes whether the course is basic or optional.

21. Program Description				
Year/Level	Course Code	Course Name	Credit Hours	
			theoretical	practical
2026- Forth- first semester		Clinic II	4	0
		Medicine I	0	3
		Infectious Diseases I	0	2
		Clinical pathology I	2	1
		Epidemiology	0	1
2026- Fifth / first semester		Clinic IV	14	-
		Medicine III	0	3
2026- third / second semester		Clinic I		2
2026- Forth- Second semester		Summer clinic	0	4
		Clinic III	4	-
		Medicine II	-	3
		Infectious Diseases II	-	2
		Clinical pathology II	2	1
		Zoonotic diseases	-	2
2026- Fifth- Second semester		Clinic V	12	-
		Medicine IV	-	3
		Veterinary Ethics	-	2

22. Expected learning outcomes of the program
Knowledge
• The student possesses advanced theoretical and practical knowledge of infectious diseases affecting monogastric animals and ruminants, clinical veterinary practice, and metabolic and nutritional disorders, including their etiology, epidemiology, clinical manifestations, diagnostic approaches, as well as prevention and control strategies.
Skills
The student acquires the ability to perform clinical examinations, collect and handle diagnostic samples, interpret laboratory findings, formulate differential diagnoses, and propose appropriate initial interventions for both individual animal cases and herd-level health conditions.
Ethics
The student develops the ability to make professional decisions within the scope of their responsibilities, work effectively as part of a multidisciplinary team, adhere to professional ethics and biosecurity principles, and apply acquired knowledge in both clinical and field settings.

23. Teaching and Learning Strategies

Knowledge: Course specifications, prescribed textbooks, and theoretical lectures.

- **Skills:** Clinical training logbooks, laboratory reports, and graduation projects.

- **Competencies:** Performance assessment in the veterinary teaching hospital, fieldwork activities, and adherence to professional conduct and ethical standards.

24. Evaluation methods

First: Theoretical Assessment

1. **Written Examinations:** Assess theoretical knowledge and conceptual understanding.
2. **Objective Tests (MCQs):** Evaluate knowledge acquisition and rapid recall abilities.
3. **Written Reports:** Assess analytical, interpretative, and critical-thinking skills.

Second: Practical Assessment

1. **Clinical Examination Assessment:** Evaluate clinical and diagnostic skills.
2. **Diagnostic Laboratory Assessment:** Assess laboratory competencies and technical skills.
3. **Practical Reports:** Evaluate the ability to document, analyze, and interpret practical findings.

Third: Continuous Assessment

1. **Research Projects:** Assess integrated competencies, scientific inquiry, and problem-solving abilities.
2. **Teamwork Activities:** Evaluate communication skills and the ability to work effectively within a team.

3. **Self-Assessment and Peer Assessment:** Evaluate professional awareness, ethical conduct, and reflective practice.

25. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/ Skills (if applicable)	Number of the teaching staff	
	General	Special		Staff	Lecturer
Prof 7	Veterinary Medicine	Internal & Preventive medicine		staff	
Asisst. Prof 3	Veterinary Medicine	Internal & Preventive medicine		staff	
Lecturer 1	Veterinary Medicine	Internal & Preventive medicine		staff	
Assist. L 3	Veterinary Medicine	Internal & Preventive medicine		staff	

Professional Development

Mentoring new faculty members

Briefly describes the process used to mentor new, visiting, full-time, and part-time faculty at the institution and department level.

Professional development of faculty members

Briefly describe the academic and professional development plan and arrangements for faculty such as teaching and learning strategies, assessment of learning outcomes, professional development, etc.

26. Acceptance Criterion

(Setting regulations related to enrollment in the college or institute, whether central admission or others)

27. The most important sources of information about the program

Clinical Examination of Farm Animals BY Peter G.G. Jackson & Peter D Cockcroft(२००२)

Color atlas of diseases and disorders in cattle by. Blowey, Roger W and Weaver, A. David 2011 3rd Ed.

.Veterinary Epidemiology - An Introduction BY Dirk U. Pfeiffer 2002 •

•Radostits et al (2007) Veterinary medicine. 10th Ed

• An Introduction to Veterinary Epidemiology BY Mark Stevenson 2005

28. Program Development Plan

Utilizing modern concepts and advancements in Veterinary Medicine, as well as employing electronic technologies for information presentation and advanced diagnostic equipment to enhance teaching, learning, and clinical diagnostic practices.

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
		Clinic II	Basic				✓			✓					✓
		Medicine I	Basic				✓							✓	
		Infectious Diseases I	Basic								✓			✓	
		Clinical pathology I	Basic			✓			✓						✓
		Epidemiology	Basic				✓			✓				✓	
		Clinic IV	Basic				✓			✓				✓	
		Medicine III	Basic			✓				✓					✓
		Clinic I	Basic				✓				✓			✓	
		Summer clinic	Basic			✓				✓					✓
		Clinic III	Basic				✓								✓

		Medicine II	Basic			✓								✓
		Infectious Diseases II	Basic				✓				✓		✓	
		Clinical pathology II	Basic			✓							✓	
		Zoonotic diseases	Basic				✓							✓
		Clinic V	Basic				✓							✓
		Medicine IV	Basic				✓							✓
		Veterinary Ethics	Basic				✓							✓

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

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Academic Program Description Form

University Name:Basrah.....

Faculty/Institute:Veterinary Medicine.....

Scientific Department:Veterinary Parasitology.....

Academic or Professional Program Name:

Final Certificate Name: ...Bachelor

Academic System:...Courses

Description Preparation Date:

File Completion Date: 14-6-2026

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

The College of Veterinary Medicine seeks to be one of the leading higher education institutions at the University of Basra in the field of modern education and scientific research through its scientific, research and administrative activities. It also works to provide an integrated path for its students and professors to make them active and creative in serving the community in the fields of learning and teaching living languages.

2. Program Mission

Working to prepare and graduate leading scientific and leadership competencies in languages, sciences and literature, and to develop the balance of knowledge in the field of scientific research to serve the local, regional and international community, as well as training and refining the minds of students scientifically and cognitively, and emphasizing social and cultural values and responding to the requirements of the local market.

3. Program Objectives

1. Adopting a future vision by implementing the mission and goals of the University of Basra, and applying the best educational practices with a focus on ensuring quality and university performance.
2. Preparing specialized cadres capable of serving the community and preparing for the preparation of future specializations.
3. Disseminating the culture and role of veterinary medicine in society, transferring knowledge and skills, writing academic research, and creative scientific achievement through student- and teaching-focused activities.
4. The college seeks to conclude scientific and cultural cooperation agreements with corresponding colleges and corresponding departments in different colleges to achieve best practices in the fields of teaching, learning and translation.
5. Working to direct scientific research in the applied direction in the field of veterinary medicine and livestock
6. Adopting an efficient electronic circuit and building a production college that meets the market need.
7. The college provides advisory and guidance services to breeders and owners of animal production projects through its offices and consulting and veterinary clinics.
8. Raising a generation capable of taking responsibility and committed to the ethics of its profession.

4. Program Accreditation

Not found

5. Other external influences

Student development courses/summer training

6. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements		4		
College Requirements	Yes			
Department Requirements	Yes			
Summer Training	Yes			
Other				

* This can include notes whether the course is basic or optional.

7. Program Description

Year/Level	Course Code	Course Name	Credit Hours	
2026/ third		Veterinary Parasitology	theoretical	practical
			3 hours per week	2 hours per week

8. Expected learning outcomes of the program

Knowledge	
Learning Outcomes 1	Introducing the student to parasitology, its types and precise structures
Skills	

Learning Outcomes 2	Expanding students' skills in how to use a microscope, prepare laboratory models, and methods for collecting and examining samples and their types
Learning Outcomes 3	Developing the student's intellectual and skill abilities in responding to the scientific material and adapting to it
Ethics	
Learning Outcomes 4	Teaching students how to deal with animals
Learning Outcomes 5	Teaching them how to deal with animals that have been subjected to violence or being run over by cars, and what are the methods of euthanasia

9. Teaching and Learning Strategies

- 1- Giving video, in-person, and PowerPoint lectures that help explain the scientific material, present it to students, and discuss it.
- 2- Request reports from students to determine the extent of their comprehension and understanding of the material
- 3- Students' participation in scientific discussions through daily oral and written sessions
- 4- Completing the theoretical aspect through the practical aspect of the lesson

10. Evaluation methods

Weekly, monthly, daily exams and the end of the year exam.

11. Faculty						
Faculty Members						
Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Prof. Dr. Suzan A. Al-Azizz	Biology	Parasitology			Yes	
Prof. Dr. Ghazi Y. Azzal	Veterinary medicine and surgery	Parasitology			Yes	
Prof. Dr. Muna M. Jori	Biology	Parasitology			Yes	
Prof. Dr. Alaa T. Abdulwahed	Veterinary medicine and surgery	public health			Yes	
Assist. Prof. Dr. Alaa I. Saood	Veterinary medicine and surgery	Parasitology			Yes	
Veterinarian Zanaib Emad	Veterinary medicine and surgery				Yes	

Professional Development
Mentoring new faculty members
There are no new teachers
Professional development of faculty members
Introduce them to courses on teaching methods and teaching and learning skills

12. Acceptance Criterion

13. The most important sources of information about the program

14. Program Development Plan
Relying on interactive videos inside the classroom in person and outside the classroom electronically

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

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

Course Description Form

1. Course Name:
Veterinary Parasitology
2. Course Code:
3. Semester / Year:
Third stage/ yearly
4. Description Preparation Date:
14-6-2026
5. Available Attendance Forms:
presence only
6. Number of Credit Hours (Total) / Number of Units (Total)
7. Course administrator's name (mention all, if more than one name)
Name: Prof. Dr. Suzan A. Al-Azizz- The theoretical course of the subject- suzan.azizz@uobasrah.edu.iq Prof. Dr. Ghazi Y. Azzal- The Practical course of the subject- Ghazi.azzal@uobasrah.edu.iq Prof. Dr. Muna M. Jori- The theoretical course of the subject- Muna.jori@uobasrah.edu.iq Assist. Prof. Dr. Alaa I. Saood - The Practical course of the subject- alaa.ismail@uobasrah.edu.iq.
8. Course Objectives
1- Definition of diseases caused by parasites 2- Introducing methods of diagnosing, controlling and treating it 3- Providing the student with the skill of laboratory diagnosis and methods of examining animals to determine their infection with parasites 4- Introducing parasitic diseases common between humans and animals
9. Teaching and Learning Strategies

Strategy	After completing this course, the student must be aware of the following: 1. Taxonomic aspects of parasites. 2. Differentiate between each one of them. 3. Diagnostic characteristics. 4. Veterinary importance. 5. Clinical signs of parasitic infection. 6. Control and treatment of animals infected with parasites.
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10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3+2	1- Teaching methods of collecting samples 2- How to diagnose the parasite 3- The diseases it causes 4- Methods of prevention, control, and treatment	General Introduction Definitions & Terms Life cycle, Pathogenicity, Immunology, Transmission.	1- PowerPoint presentation 2- Show an educational video related to the subject	Daily quizzes, oral questions, and reports

2	3+2		Phylum: Nematoda includes the families: 1- Hetrakidae 2- Subuluridae 3- Oxyuridae
3	3+2		4- Rhabdatidae 5- Strongyloidae
4	3+2		6- Trichonematide 7- Ancylostomatid e
5	3+2		8- Trichostrongyli ae 9- Dictyocaulidae
6	3+2		10-Metastroglyloidae 11-Trichuridae
7	3+2		12-Trichinellidae
8	3+2		13-Spriurodae 14-Fillaridae
9	3+2		Phylum: Platyhelminthes, Class: Trematoda includes the families: 1-Fasciolidae 2-Schistosomatidae
10	3+2		3-Paramphistomatidae 4-Dicrocoelidae 5-Troglotrematidae
11	3+2		6-Echinostomatidae 7- Heterophyidae 8- Opisthorichidae
12	3+2		Phylum: Platyhelminthes, Class: Cestoda includes the families: 1-Taeniidae 2-Anoplocephalidae
13	3+2		3-Thysanostonidae 4-Davaineidae
14	3+2		5-Dipylidiidae 6-Hymenolipidae

15	3+2		7-Mesocetoidae 8-Diphylobothrid		
vacation					
16	3+2	1- Teaching methods of collecting samples	Phylum: Protozoa includes the families: 1- Trypanosomatidae	1- PowerPoint presentation	Daily quizzes, oral questions, and reports
17	3+2	2- How to diagnose the parasite	2- Trichomonade	2- Show an educational video related to the subject	
18	3+2	3- The diseases it causes	3- Monocercomonade		
19	3+2	4- Methods of prevention, control, and treatment	4-Eimeriidae 5- Sarcocystidae		
20	3+2		6- Cryptosporidiidae 7-Plasmodiidae		
21	3+2		8-Babesiidae 9-Theileriidae		
22	3+2		Phylum: Arthropoda, give a general characteristics and classification which includes the families:		
23	3+2		1-Ixodidae		
24	3+2		2-Argasidae		
			3-Sarcoptidae		

25	3+2		4- Psoroptidae		
26	3+2		5-Tabanidae		
27	3+2		6-Culicidae 7-Psychodidae		
28	3+2		8-Simuliidae 9-Osteridae		
29	3+2		10- Calliophoridae 11-Cimicidae		
30	3+2		12- Haematopinid ae 13- Crustacea		

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reportsetc

12. Learning and Teaching Resources

• Roberts, L. S. & Janovy, J. (1996). Foundations of Parasitology. 5th end., wmc. Brown publ. Chicago, USA.	Soulsby, E. J. L., (1982). Helminthes, Arthropods and protozoa of domesticated animals, 7th ed. Bailliere Tindall, East Sussex, UK.
• Gibsion, I. (2010). Hand book of Diagnostic parasitology.	• Schmidt, G. D. (1986). Hand book of Tapeworm Identification. CRC Press, Inc. Boca Raton, Florida. pp. 675.

**Ministry of Higher Education and Scientific Research
Scientific Supervision and Scientific Evaluation Apparatus
Directorate of Quality Assurance and Academic Accreditation
Accreditation Department**



Academic Program and Course Description Guide

2026

Introduction:

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 Examiner Program.

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.

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:Basrah.....

Faculty/Institute:Veterinary Medicine.....

Scientific Department:Veterinary Parasitology.....

Academic or Professional Program Name:

Final Certificate Name: ...Bachelor

Academic System:...Courses

Description Preparation Date:

File Completion Date: 14-6-2026

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

15. Program Vision

The College of Veterinary Medicine seeks to be one of the leading higher education institutions at the University of Basra in the field of modern education and scientific research through its scientific, research and administrative activities. It also works to provide an integrated path for its students and professors to make them active and creative in serving the community in the fields of learning and teaching living languages.

16. Program Mission

Working to prepare and graduate leading scientific and leadership competencies in languages, sciences and literature, and to develop the balance of knowledge in the field of scientific research to serve the local, regional and international community, as well as training and refining the minds of students scientifically and cognitively, and emphasizing social and cultural values and responding to the requirements of the local market.

17. Program Objectives

1. Adopting a future vision by implementing the mission and goals of the University of Basra, and applying the best educational practices with a focus on ensuring quality and university performance.
2. Preparing specialized cadres capable of serving the community and preparing for the preparation of future specializations.
3. Disseminating the culture and role of veterinary medicine in society, transferring knowledge and skills, writing academic research, and creative scientific achievement through student- and teaching-focused activities.
4. The college seeks to conclude scientific and cultural cooperation agreements with corresponding colleges and corresponding departments in different colleges to achieve best practices in the fields of teaching, learning and translation.
5. Working to direct scientific research in the applied direction in the field of veterinary medicine and livestock
6. Adopting an efficient electronic circuit and building a production college that meets the market need.
7. The college provides advisory and guidance services to breeders and owners of animal production projects through its offices and consulting and veterinary clinics.
8. Raising a generation capable of taking responsibility and committed to the ethics of its profession.

18. Program Accreditation
Not found

19. Other external influences

Student development courses/summer training

20. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements		4		
College Requirements	Yes			
Department Requirements	Yes			
Summer Training	Yes			
Other				

* This can include notes whether the course is basic or optional.

21. Program Description

Year/Level	Course Code	Course Name	Credit Hours	
2026/ third		Veterinary Parasitology	theoretical	practical
			3 hours per week	2 hours per week

22. Expected learning outcomes of the program

Knowledge	
Learning Outcomes 1	Introducing the student to parasitology, its types and precise structures
Skills	

Learning Outcomes 2	Expanding students' skills in how to use a microscope, prepare laboratory models, and methods for collecting and examining samples and their types
Learning Outcomes 3	Developing the student's intellectual and skill abilities in responding to the scientific material and adapting to it
Ethics	
Learning Outcomes 4	Teaching students how to deal with animals
Learning Outcomes 5	Teaching them how to deal with animals that have been subjected to violence or being run over by cars, and what are the methods of euthanasia

23. Teaching and Learning Strategies

- 1- Giving video, in-person, and PowerPoint lectures that help explain the scientific material, present it to students, and discuss it.
- 2- Request reports from students to determine the extent of their comprehension and understanding of the material
- 3- Students' participation in scientific discussions through daily oral and written sessions
- 4- Completing the theoretical aspect through the practical aspect of the lesson

24. Evaluation methods

Weekly, monthly, daily exams and the end of the year exam.

25. Faculty						
Faculty Members						
Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Prof. Dr. Suzan A. Al-Azizz	Biology	Parasitology			Yes	
Prof. Dr. Ghazi Y. Azzal	Veterinary medicine and surgery	Parasitology			Yes	
Prof. Dr. Muna M. Jori	Biology	Parasitology			Yes	
Prof. Dr. Alaa T. Abdulwahed	Veterinary medicine and surgery	public health			Yes	
Assist. Prof. Dr. Alaa I. Saood	Veterinary medicine and surgery	Parasitology			Yes	
Veterinarian Zanaib Emad	Veterinary medicine and surgery				Yes	

Professional Development
Mentoring new faculty members
There are no new teachers
Professional development of faculty members
Introduce them to courses on teaching methods and teaching and learning skills

26. Acceptance Criterion

27. The most important sources of information about the program

28. Program Development Plan
Relying on interactive videos inside the classroom in person and outside the classroom electronically

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

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

Course Description Form

13.	Course Name:	
		Veterinary Parasitology
14.	Course Code:	
15.	Semester / Year:	
		Third stage/ yearly
16.	Description Preparation Date:	
		14-6-2026
17.	Available Attendance Forms:	
		presence only
18.	Number of Credit Hours (Total) / Number of Units (Total)	
19.	Course administrator's name (mention all, if more than one name)	
	Name: Prof. Dr. Suzan A. Al-Azizz- The theoretical course of the subject- suzan.azizz@uobasrah.edu.iq Prof. Dr. Ghazi Y. Azzal- The Practical course of the subject- Ghazi.azzal@uobasrah.edu.iq Prof. Dr. Muna M. Jori- The theoretical course of the subject- Muna.jori@uobasrah.edu.iq Assist. Prof. Dr. Alaa I. Saood - The Practical course of the subject- alaa.ismail@uobasrah.edu.iq.	
20.	Course Objectives	
	1- Definition of diseases caused by parasites 2- Introducing methods of diagnosing, controlling and treating it 3- Providing the student with the skill of laboratory diagnosis and methods of examining animals to determine their infection with parasites 4- Introducing parasitic diseases common between humans and animals	
21.	Teaching and Learning Strategies	
Strategy	After completing this course, the student must be aware of the following:	

	1. Taxonomic aspects of parasites. 2. Differentiate between each one of them. 3. Diagnostic characteristics. 4. Veterinary importance. 5. Clinical signs of parasitic infection. 6. Control and treatment of animals infected with parasites.
--	--

22. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3+2	1- Teaching methods of collecting samples 2- How to diagnose the parasite 3- The diseases it causes 4- Methods of prevention, control, and treatment	General Introduction Definitions & Terms Life cycle, Pathogenicity, Immunology, Transmission.	1- PowerPoint presentation 2- Show an educational video related to the subject	Daily quizzes, oral questions, and reports
2	3+2		Phylum: Nematoda includes the families: 10- Heterakidae 11- Subuluridae 12- Oxyuridae		

3	3+2		13- Rhabdatidae		
			14- Strongyloidae		
4	3+2		15- Trichonematide		
			16- Ancylostomatid e		
5	3+2		17- Trichostrongyli ae		
			18- Dictyocaulidae		
6	3+2		10-Metastroglyloidae		
			11-Trichuridae		
7	3+2		12-Trichinellidae		
8	3+2		13-Spriurodae		
			14-Fillaridae		
9	3+2		Phylum: Platyhelminthes, Class: Trematoda includes the families: 1-Fasciolidae 2-Schistosomatidae		
10	3+2		3-Paramphistomatidae 4-Dicrocoelidae 5-Troglotrematidae		
11	3+2		6-Echinostomatidae 7- Heterophyidae 8- Opisthorichidae		
12	3+2		Phylum: Platyhelminthes, Class: Cestoda includes the families: 1-Taeniidae 2-Anoplocephalidae		
13	3+2	3-Thysanosonidae 4-Davaineidae			
14	3+2	5-Dipylidiidae 6-Hyminolipididae			
15	3+2	7-Mesocestoidae 8-Diphylobothirid			
vacation					
16	3+2		Phylum: Protozoa includes the families:		

		1- Teaching methods of	1- Trypanosomatidae	1- PowerPoint presentation	Daily quizzes, oral questions, and reports
17	3+2	collecting samples	2- Trichomonade		
		2- How to diagnose the parasite	3- Monocercomonade	2- Show an educational video related to the subject	
18	3+2	3- The diseases it causes	4-Eimeriidae 5- Sarcocystidae		
19	3+2	4- Methods of prevention, control, and treatment	6- Cryptosporididae 7-Plasmodiidae		
20	3+2		8-Babesiidae 9-Theileriidae		
21	3+2		Phylum: Arthropoda, give a general characteristics and classification which includes the families:		
22	3+2		1-Ixodidae		
23	3+2		2-Argasidae		
24	3+2		3-Sarcoptidae		
25	3+2		4-Psoroptidae		
26	3+2		5-Tabanidae		
27	3+2		6-Culicidae 7-Psychodidae		
28	3+2		8-Simuliidae 9-Osteridae		
29	3+2		10- Calliophoridae		

			11-Cimicidae	
30	3+2		12- Haematopinidae 13- Crustacea	
23. Course Evaluation				
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reportsetc				
24. Learning and Teaching Resources				
• Roberts, L. S. & Janovy, J. (1996). Foundations of Parasitology. 5th end., wmc. Brown publ. Chicago, USA.		Soulsby, E. J. L., (1982). Helminthes, Arthropods and protozoa of domesticated animals, 7th ed. Bailliere Tindall, East Sussex, UK.		
• Gibsion, I. (2010). Hand book of Diagnostic parasitology.		• Schmidt, G. D. (1986). Hand book of Tapeworm Identification. CRC Press, Inc. Boca Raton, Florida. pp. 675.		

Academic Program and Course Description Guide (Statistics Course)

Introduction

The educational program is a coordinated and organized package of courses that includes procedures and experiences arranged as study units. Its primary purpose is to develop and refine graduates' skills, enabling them to meet labor market requirements. The program is reviewed and evaluated annually through internal and external quality assurance procedures and programs, such as the External Examiner Program.

Academic Program Description

The academic program description provides a concise summary of the program's main features and courses, highlighting the skills that students are expected to acquire in accordance with the program objectives. This description is fundamental for obtaining program accreditation and is prepared by teaching staff under the supervision of scientific committees.

Concepts and Terminology

Academic Program Description: A brief statement of the program's vision, mission, objectives, and intended learning outcomes.

Course Description: A concise summary of the course characteristics and expected learning outcomes.

Program Vision: An ambitious picture of the future of the academic program.

Program Mission: A brief statement of the goals and activities required to achieve them.

Program Objectives: Statements describing what the academic program intends to achieve.

Curriculum Structure: All courses included in the program according to the adopted learning system.

Learning Outcomes: The knowledge, skills, and values acquired by students after successful completion of the program.

Teaching and Learning Strategies: Methods and plans used by faculty members to achieve learning objectives.

Academic Program Information

University: University of Basrah

College: College of Veterinary Medicine

Scientific Department: Public Health Department

Academic/Professional Program: Bachelor of Veterinary Medicine and Surgery

Final Degree: Bachelor of Veterinary Medicine and Surgery

Study System: Bologna Process

Date of Description Preparation: 16/06/2026

Program Vision

The College of Veterinary Medicine seeks to prepare graduates in veterinary medicine capable of working in governmental teaching veterinary hospitals and applying their specialization in practical and applied fields.

Program Mission

To prepare and graduate distinguished scientific and leadership competencies in veterinary medicine and applied statistics, contribute to scientific research, serve society, and meet labor market requirements.

Program Objectives

1. Understanding veterinary medicine subjects and solving problems related to applied statistics.
2. Dealing with administrative problems and conducting modern statistical analyses.
3. Understanding proper statistical methods in veterinary projects and labor market requirements.

Teaching and Learning Strategies

- Detailed explanation of scientific material.
- Student participation in analyzing scientific experiments.
- Discussion and dialogue on course-related topics.

Assessment Methods

Weekly, monthly, daily, and final examinations, in addition to reports related to statistics.

Main References

Statistics for Veterinary and Animal Science, Aviva Petrie and Paul Watson, Blackwell Publishing, Second Edition, 2006.

**Ministry of Higher Education and Scientific Research
Scientific Supervision and Scientific Evaluation Apparatus
Directorate of Quality Assurance and Academic Accreditation
Accreditation Department**



Academic Program and Course Description Guide

**2024 -2025
Basrah University**

Introduction:

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 Examiner Program.

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.

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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.

1. Program Vision

Program vision is written here as stated in the university's catalogue and website.

2. Program Mission

Program mission is written here as stated in the university's catalogue and website.

3. Program Objectives

General statements describing what the program or institution intends to achieve.

4. Program Accreditation

Does the program have program accreditation? And from which agency?

Nothing

5. Other external influences

Is there a sponsor for the program?

Nothing

6. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements	90	90		Basic course
College Requirements	yes			
Department	yes			

Requirements				
Summer Training	Nothing			
Other				

* This can include notes whether the course is basic or optional.

7. Program Description

Year/Level	Course Code	Course Name	Credit Hours	
2024-2025 Third stage	202 and 208	Pharmacology	theoretical	practical

8. Expected learning outcomes of the program

Knowledge

Learning Outcomes 1	Learning Outcomes Statement 1 Enabling students to obtain knowledge and understanding of pharmacology, how medications work, what they are used for, their side effects, as well as drug interactions.
---------------------	--

Skills

Learning Outcomes 2	Learning Outcomes Statement 2 Expanding students' skills in the field of pharmacology from a theoretical and practical perspective and benefiting from them in the future in a clinical manner, knowing the effect of drugs on the body's systems, and knowing how the body gets rid of these drugs.
Learning Outcomes 3	Learning Outcomes Statement 3-Provide the student with skills in how to deal with laboratory animals, methods of drawing blood, and administering medications.

Ethics

Learning Outcomes 4	Learning Outcomes Statement 4Developing students' abilities to participate in the practical aspect of the laboratory
Learning Outcomes 5	Learning Outcomes Statement 5 Testing drugs on laboratory animals and observing responses to these drugs

9. Teaching and Learning Strategies

Teaching and learning strategies and methods adopted in the implementation of the program in general.

- 1- Analogical and practical lectures in laboratories
- 2- Discussions and involving students in them through questions and answers
- 3- Holding discussion circles and seminars in the college
- 4- Holding training courses in the field of pharmaceutical specialization

10. Evaluation methods

Implemented at all stages of the program in general.

Weekly, monthly and daily exams and the end of the first and second courses.

11. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (If applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Professor	Veterinary medicine and surgery	Pharmacology			staff	

Professional Development

Mentoring new faculty members

Briefly describes the process used to mentor new, visiting, full-time, and part-time faculty at the

institution and department level.

Professional development of faculty members

Briefly describe the academic and professional development plan and arrangements for faculty such as teaching and learning strategies, assessment of learning outcomes, professional development, etc.

12. Acceptance Criterion

(Setting regulations related to enrollment in the college or institute, whether central admission or others)

13. The most important sources of information about the program

State briefly the sources of information about the program.

1-Walter H.Hsu.Handbook of veterinary pharmacology 1 st edition .

2-Jim E.Riviere,Mark g. Veterinary Pharmacology and Therapeutics,9th edition .

3-Charles ,W.E.(2010).Laboratory guide in pharmacology .Manuals of pharmacology.

14. Program Development Plan

Introducing new vocabulary to be added to the pharmacology course, such as adding Phytotherapy and teaching students how to make plant extracts, how they work, their components, and benefiting from them therapeutically, in addition to chemical medicines.

- Identifying some of the medications that, when given, work as a prophylaxis to get rid of some of the harmful effects of some of the medications, especially

الأسبوع	الساعات	مخرجات التعلم المطلوبة	اسم الوحدة أو الموضوع	طريقة التعلم	طريقة التقييم
1	3 ساعة	Pharmacodynamic	Metrology 2	شرح	الامتحانات الأسبوعية والشهرية واليومية والتحريرية وامتحان نهاية الفصل
2	3 ساعة	Pharmacokinetics	2. Nature and sources of drugs 4	المادة العلمية	
3	3 ساعة	Neurotransmitters	3. Pharmaceutical preparations and drug forms 2	من خلال المحاضرات النظرية	
4	3 ساعة	asymptomatic Nervous System.	4. Routes of drug administration 2		
5	3 ساعة	apathetic Nervous System.	5. Variations in drug response (Species and individual) 4		
6	3 ساعة	Cholinergic drugs. Anticholinergic drugs . energetic agonist and Antagonist.	6. Microsomal enzymes activity induction and drug response 2		
7	3 ساعة	gs Acting on Central Nervous system	7. Excretion of drugs 2		
8	3 ساعة		8. Prescription writing 2		
9	3 ساعة	gs affecting on GIT function.	9. Dispensing 4		
10	3 ساعة		10. Action of drugs on the eyes 2		
11	3 ساعة	ocoids and anti-inflammatory drugs.	11. Action of drugs on isolated guinea pigs ileum 2		
12	3 ساعة		12. Drugs and effects on the rabbit intestine 2		
13	3 ساعة		13. Drugs and effects on rabbit uterus 2		
14	3 ساعة	Dermatopharmacology.	14. Neuromuscular blocking (on the frog) 2		
15	3 ساعة		15. Calculation of drug dosage 2		
عطلة الفصل الثاني		Introduction Chemotherapy Classification Of antibacterial drugs	16. Xylazine-ketamine anesthesia in rabbits 2		
16	3 ساعة		17. Dose response relationships (ED50, LD50, TI) 2		
17	3 ساعة		18. Anticonvulsants 2		
18	3 ساعة	Introduction Anthelmintic Antinematodes Anticestodes	19. Determination of blood cholinesterase activity 2		
19	3 ساعة	Anti-trematodes	20. Organophosphate poisoning in rats or mice 2		
20	3 ساعة	Antiprotozoal Anticoccidial	21. Xylazine effects in sheep 2		
21	3 ساعة		22. Diuretics 2		
			23. Aspirin toxicity (comparison with acetaminophen) 2		
		Introduction	24. Veterinary		

		pharmaceutical preparations 4	Inotropic drug		
		25. Neurobehavioral effects of drugs and toxicants 2	Sympathomimetic		
		Effects of drugs on the perfused heart	Parasympatholytic		
			Antidysrhythmic Agents	3 ساعة	22
			Goagulants and Anticoagulant	3 ساعة	23
			Fibrinolytic	3 ساعة	24
			Introduction		
			Diuretics		
			Urinary Acidification		
			And alkalinization	3 ساعة	25
				3 ساعة	26
			Expectorants		
			Mucolytics		
			Bronchodilators		
			Anti-inflammatory Agents	3 ساعة	27
			Introduction	3 ساعة	28
			Pituitary hormones		
			Pancreas H		
			Thyroid H	3 ساعة	29
			Adrenal H	3 ساعة	30

Week	Hours	Unit or subject name	Learning method	Evaluation method
First Second	2	1. Metrology	Explaining scientific material through theoretical lectures	Weekly, monthly, daily, written and end -of- semester exams
3		2. Nature and sources of drugs		
4	3	3. Pharmaceutical preparations and drug forms		
5	3			
6	3	4. Routes of drug administration		
7	3	5. Variations in drug response (Species and individual)		
8	3	6. Microsomal enzymes activity induction and drug response		
9	3	7. Excretion of drugs 2		
10	3	8. Prescription writing		
11	3	9. Dispensing		
12	3	10. Action of drugs on the eyes		
13	3	11. Action of drugs on isolated guinea pigs ileum		
14	3	12. Drugs and effects on the rabbit intestine 2		
15	3	13. Drugs and effects on rabbit uterus 14. Neuromuscular blocking (on the frog) 15. Calculation of drug dosage		
16	3	16. Xylazine-ketamine anesthesia in rabbits 2		
17	3	17. Dose response relationships (ED50, LD50, TI)		
18	3	Anticonvulsants		
19	3	19. Determination of blood cholinesterase activity		
20	3	20. Organophosphate poisoning in rats or mice		
21	3	21. Xylazine effects in sheep		
22	3	22. Diuretics		
23	3	23. Aspirin toxicity (comparison with acetaminophen)		
24	3	24. Veterinary pharmaceutical preparations		
25	3	25. Neurobehavioral effects of drugs and toxicants		
26	3	26. Effects of drugs on the perfused heart		
27	3			
29				

**Ministry of Higher Education and Scientific Research
Scientific Supervision and Scientific Evaluation Apparatus
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Accreditation Department**



Academic Program and Course Description Guide

Basrah University

2024 - 2025

6. Program Structure

Program Structure	Number of Courses	Study Unit	Percentage	Reviews*
Institution Requirements	Institution requirements: 60 hours (theoretical) + 30 hours (practical), first semester 60 hours (theoretical) + 30 hours (practical), second semester	5 first semester units + 5 second semester units		Basic course
College Requirements	Yes			
Department Requirements	Yes			
Summer Training	Yes			
Other				

* This can include notes whether the course is basic or optional.

7. Program Description

Year/Level	Course Code	Course Name	Credit Hours	
2024-2023/second stage	VET 203, VET 209	Physiology	4 theoretical	2 practical

8. Expected learning outcomes of the program

Knowledge	
	Teaching the student to know the most important natural functions of organs, blood tests, methods of conducting them, and the materials and elements that are included in these tests.
Skills	
	Students learned laboratory skills in how to deal with pathological cases, methods of drawing blood, and how to conduct tests and compare them with normal standards.
Ethics	
	Developing students' abilities to share ideas
	1- Enabling the student to know how to diagnose the disease

	and the pathology of the disease 2- Enabling the student to recognize normal functions and compare them with diseases. 3- Enabling students to link the functioning of the organs and their influence with other substances, such as medicines and toxins. 4- Enabling students to know about diseases and the extent of their impact on public health and economic aspects
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9. Teaching and Learning Strategies

- 1- Theoretical/through scientific lectures and new explanatory methods - getting to know the functions of organs in detail and expanding the student's mind in the field of organ physiology and linking it to other sciences.
- 2- Practical/through practical lectures in the laboratory and in order to learn about the most important methods of measuring normal blood parameters and comparing them with pathological cases.

10. Evaluation methods

- 1-Theoretical exams (daily, monthly, end of semester)
- 2- Practical exams (daily, monthly, end of semester)

11. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	
professor	Veterinary medicine and surgery	physiology			staff	

Professional Development

Mentoring new faculty members

Briefly describes the process used to mentor new, visiting, full-time, and part-time faculty at the institution and department level.

Professional development of faculty members

Using modern educational methods

12. Acceptance Criterion

(Establishing regulations related to enrollment in the college or institute)

13. The most important sources of information about the program

-Guyton and Hill , medical physiology, 2008, Ramesh C. Gupta, Veterinary Toxicology Basic and Clinical Principles. First edition 2008,

-Jim E. Riviere , Mark G. Papich . Veterinary Pharmacology and Therapeutics, 9th Edition

-Journal of physiology

-Amer. J. of pharmacology

-Veterinary physiology 2006

14. Program Development Plan

In order to link the theoretical information that the student receives to clinical reality, several things must be done, the most important of which are the following: -

- 1- Increasing field visits to government and private projects
- 2- Encouragement to visit the college library and the central library at the university
- 3- Urging students to benefit from summer training in veterinary centers and the teaching hospital
- 4- Improving research projects and graduation projects.

Course Description Form

1. Course Name:	2.		
Physiology			
3. Course Code:	4.		
VFT 203. VFT 209			
5. Semester / Year:	6.		
2024-2025/ second year			
7. Description Preparation Date:	8.		
8/1/2025			
9. Available Attendance Forms:	10.		
Attendance			
11. Number of Credit Hours (Total) / Number of Units (Total)	12.		
120 theoretical hours + 60 practical hours. 4 theoretical hours + 2 practical hours per week			
13. Course administrator's name (mention all, if more than one name)	14.		
Prof.Dr. Muna Hamuid Mohammoud, Prof.Dr. Rashad Fadial Ghabban Prof.Dr. Adal Mousa Hassan			
15. Course Objectives	16.		
1- Teaching the student to know the most important natural functions of the organs, blood tests, methods of conducting them, and the materials and elements that go into these tests. 2- Students learned laboratory skills in how to deal with pathological cases, methods of draw blood, and how to conduct tests for them and compare them with normal standards..			
17. Teaching and Learning Strategies	18.		
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Strategy</td> <td> 1-Electronic learning method 2- Brainstorming education strategy. 3- Education Strategy Notes Series </td> </tr> </table>	Strategy	1-Electronic learning method 2- Brainstorming education strategy. 3- Education Strategy Notes Series	
Strategy	1-Electronic learning method 2- Brainstorming education strategy. 3- Education Strategy Notes Series		
10.Course structure			

15 - Course level :Second year Course Name :Theoretical physiology Semester: First & second.					
Evaluation methods	Learning methods	Subjects name	Learning methods outcomes	Hours	weeks
Questions, discussion and daily exam	Lecture and explanation	Introduction :Definition of physiology and its relation to other sciences, the structure of cell membrane and cell organelles functions.	Introducing the student to physiology and its relationship to other sciences, an introductory introduction, the structure of the plasma membrane and the functions of organelles.	4	1-

=	=	Cellular Basis of Animal Physiology, Animal cell ultra-structure, composition and functions Body fluid and its Dynamics. . Physio-chemical laws and membranes' phenomena. Transport of through biological membrane.)Review exam(.	Identify cellular structure	6	5
=	=	Excitable cells, Neurophysiology: structure and functions, Excitability and transmission of impulse in neuron and muscle. Junctional transmission. Neuro-transmitters and action potential. Synapse, (Review exam.)	Identify the nervous system and its structure	10	6
=	=	Muscle Physiology Muscle types and their intra-cellular contractile mechanisms. Electrophysiology of muscles. Neuromuscular junction. Excitation contraction coupling, its biochemical and ionic mechanisms. Molecular basis of muscle contraction (Review exam.)	Identify the function and importance of the muscular system and its relationship with the nervous system	10	7
=	=	Nervous system: organization of the nervous system, CNS, PNS, Spinal cord, Reflex arch, Autonomic nervous system, (sympathetic, and	Specialized nervous system function	6	8 & 9
=	=	Cardiovascular physiology: Cellular component of blood, Types and Functions, Hemoglobin Structure and Function, Electrical activity of the heart, (ECG...EKG), Capillaries and fluid exchange. Neural and Hormonal Control of Blood pressure, Blood Volume. and Hemostasis.	Identify the circulatory system, its components, and the importance of each component	10	10 & 11
=	=	Endocrinology: Endocrine system (Glands and their Functions) (Review exam	Identify the endocrine system and the importance of hormones and their work	10	10
=	=	Gastrointestinal Physiology and Metabolism: Organization of the Digestive System, Saliva and Salivary Glands, Liver and Pancreas, Digestive Enzymes, Ruminant physiology and fermentation	Identify digestive system function	12	11
=		Renal Physiology: Nephron structure and Function, Glomerular Filtration, Solute reabsorption, Water Balance, and Acid Base Balance.	Identify urinary system	8	12 & 13
=	Lecture and explanation with preview of samples	Respiratory System Physiology, Respiratory Volumes, Gas Exchange, Gas transport in the Blood, and Control of ventilation	Identify respiratory system	8	12
=	Lecture and explanation with preview of samples	Reproductive Physiology: Gamete development, Ovulation, Reproductive cycle, Pregnancy, Mammary gland and Lactation, Reproductive physiology of the male. (Review exam.)	Identify reproductive system and its function	10	13
=	=	Homeostasis		2	14 & 15

15 - Coures level :2nd year

Course Name :Practical physiology / 2 hours

1. Semester: First

15 - Coures level :2nd year

Course Name :Practical physiology / 2 hours

Semester: First

Evaluation methods	Learning methods	Subject name	Learning method outcome	Hours	Weeks
Daily exam questions and discussion	Lecture and explanation with ppt presentation	Safety in the physiological Laboratory		2	1
=	=	Introduction to apparatus and instruments.		2	2
=	=	Fragility of Red Blood cell.		2	3
=	=	Red blood cell count.		2	4
=	=	White blood cell count.		2	5
=	=	Differential leukocyte count		2	6
=	=	Estimation of hemoglobin		2	7
=	=	Estimation of packed cell volume		2	8
=	=	Estimation of erythrocyte sedimentation		2	9
=	=	The Win Trobe erythrocyte indexes		2	10
=	=	Blood groups		2	11
=	=	Coagulation		2	12
=	=	Bleeding time		2	13
=	=	Blood pressure		2	14
=	=	Effect of exercise and gravity on blood pressure and venous pressure		2	15
Examine					

1. Course Evaluation

The distribution is as follows: 40 marks for the annual pursuit and 60 marks for the final exams

2. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Veterinary physiology
Main references (sources)	Gyuton and Hill , medi physiology,
Recommended books and references (scientific journals, reports...)	Jim E. Riviere , Mark G. Papich . Veterinary Pharmacology and Therapeutics, 9th Edition -Journal of physiology -Amer. J. of pharmacology ..
Electronic References, Websites	

**Ministry of Higher Education and Scientific Research
Scientific Supervision and Scientific Evaluation Apparatus
Directorate of Quality Assurance and Academic Accreditation
Accreditation Department**



Academic Program and Course Description Guide

2024- 2025

Basrah University

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.

1. Program Vision

Program vision is written here as stated in the university's catalogue and website.

2. Program Mission

Program mission is written here as stated in the university's catalogue and website.

3. Program Objectives

General statements describing what the program or institution intends to achieve.

4. Program Accreditation

Does the program have program accreditation? And from which agency?

5. Other external influences

Is there a sponsor for the program?

6. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements	4	3		Basic course
College Requirements	yes			
Department Requirements	Yes			
Summer Training	No			
Other				

* This can include notes whether the course is basic or optional.

7. Program Description

Year/Level	Course Code	Course Name	Credit Hours	
2023-2024 (1 st)	vEP3I 16	Clinical Toxicology	theoretical	
Post graduate				

8. Expected learning outcomes of the program

Knowledge

Cognitive objectives.

- 1- Enabling students with good advanced knowledge of clinical toxicology.
- 2- Enabling students to conduct advanced scientific research and expand scientific research work in the field of toxicology as well as in pharmacology
- 3- Enabling graduate students to develop their skills by attending seminars related to toxicology and pharmacology.

Skills

- 1- Providing the student with skills in how to deal with various types of laboratory animals for the purpose of conducting scientific experiments.
- 2- Providing the student with skills in how to use laboratory equipment.
- 3- Providing the student with the appropriate skills to administer medications and other materials to laboratory animals.
- 4- Giving the student the skills to use tissue culture for the purpose of experimenting with drugs and toxins.

Ethics

9. Teaching and Learning Strategies

- 1- Theoretical lectures.
- 2- Scientific seminars and courses
- 3- Seminars that students are assigned to present and discuss with them.
- 4- Scientific discussions during scheduled scientific lectures, asking questions, and brainstorming for graduate students.

10. Evaluation methods

- 1- Daily, monthly and final exams.
- 2- Reports.
- 3- Seminars

11. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Prof.Dr.	Veterinary medicine and surgery	Veterinary pharmacology			staff	

Professional Development

Mentoring new faculty members

Attending scientific seminars and courses, as well as keeping up with seminars and courses held electronically at international universities

Professional development of faculty members

Explaining the mechanism for arranging and sequencing lectures, as well as the assessment and evaluation methods used for graduate students

12. Acceptance Criterion

Competitive examination and the ministry's plan

13. The most important sources of information about the program
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1- Barile's Clinical Toxicology, Principles and Mechanisms, Third Edition

2- External source books, Veterinary Toxicology: Basic and Clinical Principles 3rd Edition Sheep flock health (Neil sargison)

14. Program Development Plan

Updating the curriculum by updating lectures and modern scientific sources
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Course Description Form

1. Course Name:	
Clinical Toxicology	
2. Course Code:	
3. Semester / Year:	
First semester	
4. Description Preparation Date:	
22\1\2025	
5. Available Attendance Forms:	
My presence	
6. Number of Credit Hours (Total) / Number of Units (Total)	
45 / 3	
7. Course administrator's name (mention all, if more than one name)	
Assist.Prof.Dr. Jala Amier Salman	
8. Course Objectives	
1- Cognitive objectives. 2- Enabling students to know animal management while making optimal use of the capabilities available to house and care for animals. 3- Enabling students to know and understand the science of management and methods of raising animals.	
9. Teaching and Learning Strategies	
1- Educational strategy, collaborative concept planning. 2- Brainstorming education strategy. 3- Education Strategy Notes Series	
10. Course Structure	

16 - Course level: first year
 Course Name: Animal management / 2 hours
 Semester: first and Second

Evaluation method	Teaching method	Name of unit/course or subject	Required learning outcomes	Hours	Week
Questions and discussion	Lecture explanation	1-Introduction To Basic Toxicological principles,Risk assessment and regulatory toxicology	Introduction Basic definition Types of toxicology Types of toxicologists	Theoretical 3	1
Questions and discussion	Lecture explanation	2-Therapeutic Monitoring of Adverse Drug Reactions ADRs, Classification of Toxins.	1-Adverse drugs reactions in clinical practice 2-Institute of Medicine (IOM) Objectives and Methods Concerning Growing Medication Errors. 3-Therapeutic Monitoring of Adverse Drug Reactions (ADRs). 4-Factors that contribute to adverse. 5-Drug Reactions factors	Theoretical 3	2
Questions and discussion	Lecture explanation	3-Exposure,Effects (general classification and chemical interaction).	1-Duration and frequency. 2-Rout of exposure 3-accumulation	Theoretical 3	3
Questions and discussion	Lecture explanation	4-Dose response ,Descriptive of Animal Toxicity Test.	1-Types of Dose –response relationships. 2-Concentration effect and presence at the receptor site 3-LD50% 4-Eperimental protocol.	Theoretical 3	4
Questions and discussion	Lecture explanation	5-Toxicokinetics ,In vitro Alternatives to animal Toxicants.	1 -Toxicokinetic ,relative to Pharmacokinetic 2-Absorption,Distribution ,Metabolism,and Elimination. 3-In vitro methods 4-Cell culture.	Theoretical 3	5
Questions and discussion	Lecture explanation	6-Chemical and drug receptor interaction ,Toxicogenomic .	1-Types of chemical and drug receptors. 2-Signal transduction.	Theoretical 3	6
Questions and discussion	Lecture explanation	7-Toxicity by Opioid and related agents.	1-Opioid. 2-Classifications 3-Mechanism action and adverse effect 4-Antidote and therapy of toxicity.	Theoretical 3	7
Questions and discussion	Lecture explanation	8-Toxicity by none therapeutic agents(Alcohols and aldehydes,Metales,Gases,Alephatic and aromatic hydrocarbons,Insecticides,Hebicides and Rodenticides.	1-Toxicity by metas 2-Alchole and aldehyde toxicity . 3-Gases toxicity. 4-Hydrocarbones toxicity. 5-Pesticides:Insecticides Herbicides,Fungicides,and Rodenticides	Theoretical 3	8
Questions and	Lecture explanation	9-Chemical Carcinogenesis and mutagenesis.	1-Mechanisms of chemical carcinogenesisCARCIN	Theoretical 3	9

discussion			2-Metabolism. 3-free radicals and reactive oxygen species.		
Questions and discussion	Lecture explanation	10-reproductive and Developmental toxicity.	1-Drugs affecting embryonic and fetal development 2-Endocrine disrupting chemicals.	Theoretical 3	10
Questions and discussion	Lecture explanation	11-Radiation toxicity, chemical and biological threats to public health .	1-Principles of radioactivity 2-Ionizing radiation. 3-Ultra ionization UV R	Theoretical 3	11
Questions and discussion	Lecture explanation	12-Therapeutic agents toxicity(Cardiovascular toxicogcy).	1-Epidmiology. 2-Digital glycosides. 3-Beta adrenergic drugs 4-Calcium chanel inhibitors . 5-ACE inhibitors.	Theoretical 3	12
Questions and discussion	Lecture explanation	13-Toxicity by herbal remedies.	Toxicity by herbal or some plant.	Theoretical 3	13
Questions and discussion	Lecture explanation	14-Toxicity by vitamins .	1-Toxicity by Vitamins	Theoretical 3	14
Questions and discussion	Lecture explanation	15-Toxicity by None steriodal anti-inflammatory drugs	1 -Acetaminophen Tox. 2-Aspirin Tox. 3-Treatment and antidote.	Theoretical 3	15

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports etc

12. Learning and Teaching Resources

- 1- Barile's Clinical Toxicology, Principles and Mechanisms, Third Edition.
- 2- Veterinary Toxicology: Basic and Clinical Principles 3rd Edition.