

ص ١٥

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

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.

Academic Program Description Form

University Name: Tikrit.....

Faculty/Institute: ...Veterinary Medicine.....

Scientific Department: ..Microbiology.....

Academic or Professional Program Name: ..Parasitology.....

Final Certificate Name:

Academic System: ...Bachelor in Veterinary Medicine and Surgery.....

Description Preparation Date: 5/10/2023

File Completion Date: 20/2/2024

Signature:

Head of Department Name:

Assist.Prof. Dr. Sanaa Saueed Ahmed

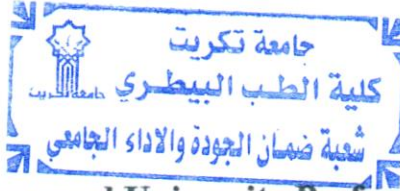
Date: 20\2\2024

Signature:

Scientific Associate Name:

Assist. Proff.Dakheel Hussein Hadri

Date: 20\2\2024



The file is checked by:

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date: 20-2-2024

Signature:

أ.م.د. سيف خليل إبراهيم

Approval of the Dean



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

The College of Veterinary Medicine at Tikrit University seeks to become a pioneering and distinguished educational, research and extension institution in order to improve and advance the educational process regionally and internationally. This is done by adhering to Arab and international quality assurance standards and policies for university performance and achieving excellence and creativity in the field of the veterinary medicine profession by creating competencies. Veterinary medicine is able to keep pace with scientific and professional development through developing and updating curricula so that graduates can perform their work efficiently in accordance with the requirements of the labor market and provide the best services to society.

2. Program Mission

The College of Veterinary Medicine at Tirit university seeks to provide the appropriate educational environment to prepare a veterinarian with distinguished scientific and practical skills in his field of work. The college also follows up projects, plans, develops research, and works to implement them to protect livestock and solve problems to preserve human and animal health and ensure food safety. The college of Veterinary Medicine will provide projects and scientific researches that contribute to providing innovative solutions to support the national economy with relevant authorities and achieve sustainable development in education, health, and food according to the standards of the Education Council for Iraqi Veterinary colleges.

3. Program Objectives

- 1-Knowledge and understanding of veterinary medicine and its related local, regional, and international standards
- 2- Scientific skills that enable the identification of the immune defence mechanisms that occur in the animal's body against bacterial and viral diseases.
- 3- analytical thinking skills that enable solving emerging problems in the field of livestock, common diseases, and basic sciences, by local, regional, and international standards.
- 4- Employability skills and self-development that enable the student to compete with others in the labor market

4. Program Accreditation

Not found

5. Other external influences

Not found

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	5 first 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	
۲۰۲۴-۲۰۲۳/ Third stage	VEP	Immunology	2 theoretical	2 practical

8. Expected learning outcomes of the program	
Knowledge	
	<ol style="list-style-type: none"> 1. Components of the immune system 2. Immunological terminology 3. Complement systems. 4. An antigen properties and antibody types 5. Distinguish between innate and acquired immunity
Skills	
	<p>Students learned laboratory skills to:</p> <ul style="list-style-type: none"> • Prepare reports in the field of immunity • Using of laboratory animals such as laboratory mice and rats to isolate immune cells • Using of immunological and serological methods to diagnose some epidemic pathogens
Ethics	
	<p>Developing students' abilities to share ideas Student should be able to implement the ethics based on Veterinary science development, correlation between ethics, discipline, and law in the medic and business</p>

9. Teaching and Learning Strategies

- 1- **Strategies** of delivering lectures based on reliable sources for academic purposes
2. Using a data display device in teaching
3. Encouraging of students to learn by discussion, asking questions, dialogue, and brainstorming
4. Using of E-learning and blended learning.
5. Deliver some of important topics by the student to develop his speaking and learning skills
6. Holding practical training courses in immunology field

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	Lecturer
Assistant professor	Veterinary medicine and surgery	Immunology			staff	

Professional Development

Mentoring new faculty members

Conducting Training Programs including seminars, training courses and workshops to provide them with academic skills and experience

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

- Veterinary immunology / Ian Tizard/Tenth edition /2018
 Cellular and Molecular Immunology/Seventh edition/Abbas, Abul K. et al.,2012

14. Program Development Plan

To link the theoretical information that the student receives to clinical reality, formal and informal activities to develop a conducive academic atmosphere by

•Formal activities include:

- 1)Regular classroom lectures, laboratory practical work, and field activities
- 2)Updating teaching methods and following up on new developments in the educational process
- 3)Encouraged students to use multiple resources such as the Internet, library holdings, and outside experts to improve student learning in higher education through analytics, resources, and advice.

•Informal activities include:

community service, discussions, research seminar presentations, student involvement in research collaborations, student internships during holidays, and public lectures featuring speakers from private and veterinary practice sectors.

Course Description Form

1. Course Name:	
Immunology	
2. Course Code:	
VEP	
3. Semester / Year:	
2023-2024/ Third year	
4. Description Preparation Date:	
24/2/2024	
5. Available Attendance Forms:	
Attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
60 theoretical hours + 60 practical hours. 2 theoretical hours + 2 practical hours per week	
7. Course administrator's name (mention all, if more than one name)	
Name: Assist.Prof.Dr. Agharid Ali Hussein email : agharidalrasheed@tu.edu.iq	
Assistant teacher : Muthanna Ali sultan Assistant teacher : Mariam Ahmed Zedan	
8. Course Objectives	
<p>This course aims to provide the student with the fundamental of immunology, the components Of the cellular and humoral immune system, and the role of immunity in maintaining animal health and its resistance to infection agents such as viruses ,bacteria and parasites pathogens Providing the student with practical information about serological and immunological methods for in diagnosing and detecting bacterial and viral pathogens that infect humans and animals.</p>	
9. Teaching and Learning Strategies	
Strategy	<ol style="list-style-type: none"> 1. Lectures are delivered by explaining and clarifying. 2. Using modern educational teaching aids, such as educational films, blended learning and e-learning by the google classroom platform. 3. Self-learning method, by learner-centered approach to encourage students to take ownership of their learning, set their own goals, and adapt to new challenges. 4. Encourage students to visit the central library of Tikrit University to improve understanding and learning

10. Course structure

Course level :third year

Course Name: Theoretical immunology

Semester: First

Evaluation methods	Learning methods	Subjects name	Learning methods outcomes	Hours	weeks
Questions, discussion and daily exam	Lecture and explanation	Introduction of immunology primary lymphoid organs secondary lymphoid organs immune cells	Learning the student about history of immunology and its relationship to other sciences Structure and function of primary and secondary lymphoid organs The immune cells types and function	8 hr.	1-4 weeks
Questions, discussion and daily exam	Lecture and explanation with preview of samples	Types of immunity Innate and adaptive immunity	Differentiate between innate immunity and adaptive immunity	4	5-6
First midterm exam					7
=	=	Complement systems Antigen Types of Antigens Antibodies structure	Learning of Complement systems pathways Antigen properties Self and autoantigens, structure and types of antibodies	12	8-10
Second midterm exam					11
		Immune response Interaction between Antibody and antigen Autoimmune diseases	immune response by lymphocyte cells Interactions between antibodies and antigens, autoimmune diseases		12-13

15 - Courses level :3rd year

Course Name :Practical Immunology / 2 hours

1. Semester: First

Evalua tion method s	Learning methods	Subject name	Learning method outcome	Hours	Weeks
Daily exam questio ns and discussi on	Lecture and explanation with ppt presentation	blood collection and immune parameters	Methods of drawing blood from laboratory animals. Detection of immune parameters in the blood	4	2-1
=	=	Microscopic examination of blood smear and immune cells differentiation	Microscopic examination of blood samples to distinguish between immune cells and identify their types and shapes	4	4-3
Mid-term exam					5
=	=	Isolation of splenocytes Isolation of lung immune cells and lymphocytes	Isolation and culturing of Spleen cells Isolation of lymphocytes from lymph nodes and immune cells from the lung	4	6-7
=	=	Molecular immune techniques and diagnosis	Immunological molecular methods to identify immune markers	2	8
		preparation bacterial antigen Preparation of polyclonal antibodies	preparation for gram negative bacterial antigen Preparation of polyclonal antibodies in lab animals Serum preparation	4	10-9
=	=	agglutination test precipitation test	Interaction between antibodies and antigens by agglutination test precipitation test	4	12- 11
=	=		Watching and practicing some immune techniques in central lab Tikrit university	2	13

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 immunology / Ian Tizard/Tenth edition /2018
Main references (sources)	Cellular and Molecular Immunology/Seventh edition/Abbas, Abul K. al.,2012
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	