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



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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.

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.

<u>Course Description</u>: 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.

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

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

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

<u>Curriculum Structure:</u> 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: Tikrit university Faculty/Institute: College of Veterinary Medicine Scientific Department: Microbiology Academic or Professional Program Name: Master Final Certificate Name: M.Sc. Microbiology Academic System: Course Description Preparation Date: 10\10\2023 File Completion Date: 10\12\2023

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Signature: Head of Department Name: Prof.Assist.Dr. Sanna Ahmed Sauod Date:10/2//2024

حامعة تكريت كلية الطب السطرى اضمان الجودة والاداء الجامعي

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Signature: Scientific Associate Name: Prof.Assist. Dkheel Hussain Date:10/2/2024

The file is checked by: Department of Quality Assurance and University Performance Director of the Quality Assurance and University Performance Department:

Date: Signature:

م.م سيف خليل ابراهيم 10-6-2024

Approval of the Dean

1. Program Vision

The College of Veterinary Medicine at Tikrit University seeks to establish the program as a center of excellence in microbiology education and research and creating a stimulating learning environment that fosters student engagement and scientific inquiry and developing strategic partnerships to translate research into practical, impactful applications. In addition, contributing to advancements in human and animal health, food security, environmental sustainability, and technological innovation Supporting the sustainable development of the local and global community..

2. Program Mission

The College of Veterinary Medicine at Tikrit University seeks to provide high-quality education and training in Microbiology to equip students with strong theoretical knowledge and practical skills establishing a research-intensive environment, monitoring research projects and plans, and developing them to protect animal resources, and solve problems related to human and animal health, as well as food safety. To promote collaboration and knowledge exchange between students, faculty members, and industry partners to develop critical thinking and communication skills in graduate students. Additionally, Prepare committed researchers who apply ethical principles and technical/scientific knowledge in the field of Microbiology, contributing to the improvement of societal and environmental conditions

3. Program Objectives

- Comprehensive coverage of the core disciplines within Microbiology, from bacteria to parasites, immunology, and vaccinology.
- Developing problem-solving and analytical capabilities to address challenges in animal health, zoonotic diseases, and fundamental microbiological sciences
- Cultivating robust research skills, critical thinking, and effective communication abilities in students.
- Enabling students to actively participate in and contribute to research and academic teams at various levels.
- Preparing students to engage in high-level scientific discourse and presentation at conferences and other academic forums.

4. Program Accreditation

National program accreditation standards for higher education institutions in Iraq have been prepared based on the European Association of Establishments for Veterinary Education (EAEVE)

5. Other external influences

Laboratories Animal facilities, Library and internet resources, Slaughterhouse, Veterinary hospital and Veterinary projects

Program Structure	Number of Courses	Study Unit	Percentage	Reviews*
Institution Requirements	2	45		Basic course
College Requirements	Yes			
Department Requirements	Yes			
Summer Training				
Other				

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

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7. P	rogram De	escription			
Year/Le		Course Code	Course Name	Cred	it Hours
2024-2023/MSc.			Immunology	2 theoretical Immunology	
		earning outcome	s of the program		
Knowle					
	 antig the inna Com The 	gens, role of cytokines te and acquired in pplement system p immune response	nary and secondary in activating and reg nmunity. bathways and its reg through humoral ar autoimmune disease	ulating the function ulations id cell-mediated imi	of immune cells i
Skills					
		s learned laborato			
		fic sources.	tations on advanced	topics in immunolo	ogy using the lates
			and presentation sk ced topics in immur		ractive presentation
	Active		scientific discussions		alogues in the field
	Prepar	e and write resear	ch and scientific rep	oorts in the field of i	mmunology.
Ethics					
	• Dem		ng lectures based on and professional b		
			5		

	 Contribute to the development of knowledge and practices in the field of immunology. Participate in advanced academic discussions and events related to the specialization.
Contrast in the second state of the second sta	onal Development
	ng new faculty members
provide t	ng Training Programs including seminars, training courses and workshops to hem with academic skills and experience
	onal development of faculty members
 Atten and a Cond the f 	cipation in specialized workshops and discussion sessions on the latest lopments in the field of immunology. nding relevant scientific conferences and seminars to keep up with the latest research applications in immunology. Aucting research and updating the curriculum to align with the scientific progress in field of immunology. iding training and guidance for faculty members in the area of supervising graduate ents.
	ptance Criterion
10. The r	
 The o Tikrit The st Asses institute 	udent handbook or academic guide sments and rankings of the program by accreditation agencies or academic tions.
 The o Tikrit The st Asses institute 	fficial website of the Veterinary Medicine Program at the University of udent handbook or academic guide sments and rankings of the program by accreditation agencies or academic
 The o Tikrit The st Asses institu The P 11. Pr 	fficial website of the Veterinary Medicine Program at the University of udent handbook or academic guide sments and rankings of the program by accreditation agencies or academic tions.

12. Teaching and Learning Strategies

- Graduate students delivering lectures based on approved sources to develop presentation and public speaking skills using PowerPoint slides and displaying them through a data projector.
- Conducting training courses in the field of applications and practical skills.
- Encouraging communication and collaboration with advanced immunology research institutions and centers, both locally and internationally.
- Organizing scientific seminars and conferences to exchange knowledge and experiences, and expand the students' scientific networking.
- Discussions, questioning, dialogue, and brainstorming.
- E-learning and blended learning.

13. Evaluation methods

- Mid-term exams and final-course exams to measure knowledge, understanding, and reasoning abilities, and assess the student's level of comprehension of the course content.
- Scientific discussion sessions to assess the student's ability to present information, select appropriate responses, and prepare students for scientific reports by choosing topics of importance in advanced immunology.
- Providing mechanisms to monitor student progress and provide academic feedback and guidance.

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		

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	Course Description Form
1. Cour	se Name:
Immunology	
2. Cour	se Code:
	ester / Year:
	Postgraduate
	ription Preparation Date:
10/10/2024	
	lable Attendance Forms:
	ndance
	ber of Credit Hours (Total) / Number of Units (Total)
	eoretical hours 2 theoretical hours per week
	se administrator's name (mention all, if more than one name)
	har Sadeq Noomi email:vetbashae@tu.edu.iq
Assist.Piol.I	Dr. Agharid Ali Hussein email : agharidalrasheed@tu.edu.iq rse Objectives
	ram aims to provide students with a comprehensive and advanced understanding of
	sms and systems of the immune system at the cellular and molecular level,
	of diseases associated with the immune system, and an understanding of the
	ytokines in interactions and their mechanism of action in activating and regulating
function	of immune cells in the animal body.
	students' skills in conducting experimental research and analyzing results in the dvanced immunology.
	students' abilities in scientific discussion and effective presentation of
	l information in this specialty.
	up-to-date with the latest developments in the field of immunology and related
medical a	applications.
7228	hing and Learning Strategies
Strategy	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.
	 Encourage students to visit the central library of Tikrit University to
	improve understanding and learning
	improve understanding and rearning
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10.Course structure

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Course level : Postgraduate-Msc

Course Name: Theoretical immunology

Semester: First				A Share bad which had	
Evaluation methods	Learning methods	Subjects name	Learning methods outcomes	Hours	weeks
Proceed with the lecture presentation along with questions and discussion.	Lecture Presentation with PowerPoint Slides	Immunity	Natural (Innate) Immunity, Defenses, and Acquired Immunity and its Types	2	1
Proceed with the lecture presentation along with questions and discussion.	Lecture Presentation with PowerPoint Slides	Antigen	The characteristics of a good antigen, and the different types of antigens	2	2
Proceed with the lecture presentation along with questions and discussion.	Slides	Antibodies	An overview of the structure and composition of antibodies, as well as the different types of antibodies	2	3
Proceed with the lecture presentation along with questions and discussion.	Lecture Presentation with PowerPoint Slides	Antigen–Antibody Reaction	The primary and secondary interactions between antigens and antibodies	2	5-4
		Mid-term exam			Statistic Project
Proceed with the lecture presentation along with questions and discussion.	Lecture Presentation with PowerPoint Slides	Complement system	An overview of the complement system, its pathways, and its :biological activities	4	7-6
Proceed with the lecture presentation along with questions and discussion.	Lecture Presentation with PowerPoint Slides	Structure and Function of Immune System	An overview of the primary and secondary lymphoid organs, as well as the key immune cells involved in both innate and adaptive immunity	4	9-8
Proceed with the lecture presentation along with questions and discussion.	Lecture Presentation with PowerPoint Slides	Immune Response	Explain the primary and secondary immune responses, the role of cytokines, and the concept of .immune tolerance	4	11-10
		Mid-term exam			12
Proceed with the lecture presentation along with questions and discussion.	Lecture Presentation with PowerPoint Slides	Hypersensitivity	An overview of the different types of hypersensitivity reactions	2	13
Proceed with the lecture presentation along with questions and discussion.	Lecture Presentation with PowerPoint Slides	Autoimmunity	Autoimmune diseases	2	14
		Final exam			

11. Course Evaluation

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Student performance is evaluated throug (30%) and Final Examination 70%.	h the following assessments: Midterm Examination
12. Learning and Teaching Resource	S
Required textbooks (curricular books any) Main references (sources)	. Textbook of Microbiology and Immunology second edition /2012 by Subhash Chandra Parija Veterinary immunology / Ian Tizard/ Tenth edition
	 /2018 Textbook of Microbiology and Immunology secondition /2012 by Subhash Chandra Parija
Recommended books and references (scientific journals, reports)	 Cellular and Molecular Immunology/ edition/Abbas, Abul K. et al.,2012 Veterinary Immunology and Immunopathology (<u>https://www.journals.elsevier.com/veterinary- immunology-and-immunopathology</u> Immunology : (<u>https://onlinelibrary.wiley.com/journal/</u>1365256
Electronic References, Websites	 The PMC (PubMed Central)website (https://www.ncbi.nlm.nih.gov/pmc/) The America Association of Immunologists (AAI) (<u>https://www.aai.org/</u> Online immunology courses : Coursera and edX a Educational videos on YouTube and the Khan Academy website