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

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:

<u>Academic Program Description</u>: 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 and Parasitology Dept. Academic or Professional Program Name: Master of Science (M.Sc.) in Microbiology Final Certificate Name: MSc degree in Microbiology Academic System: Course Description Preparation Date: 15\4\2024 File Completion Date: 15\6\2024

Head of Department Name: Assist.Prof. Dr. Asst. Prof. Dr. Sanaa S. Ahmed Date: 10\6\2024

Signature: Scientific Associate Name: Dalehee

Ungselv Hadr

Date: 10\6\2024

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

Date: Signature:

Signature:

10-6-2024 فنعمان الجودة والاداء الجاهعي

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

5. Other external influences

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

6. Program Structure

Program Structure	Number of Courses	Study Unit	Percentage	Reviews*
Institution Requirements	Institution requirements: 30 hours (theoretical) + 30 hours	second semester units		Basic course
College	Yes			1
Requirements				
Department	Yes			
Requirements				
Summer Training				
Other				

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

7. Program	Description			
Year/Level	Course Code	Course Name	Cre	edit Hours
2024-2023/			2 theoretical vaccinology	
8. Expected	learning outcomes	of the program		
Knowledge	是在一些"是我的秘密			
The a and no Select	bility to search and a ew contributions in the ing the appropriate r	nalyze relevant liter he field of scientific esearch design (qua	ature and research research. ntitative, qualitati	, and identify gaps ve, mixed) and
organ the co	izing and presenting nelusions and recom	the results in a logic mendations based o	al and clear mann n the results.	er, and determining
The a	bility to independent	ly research and anal	yze information a	nd data.
The a for pu	bility to write a well- blication.	organized and cohe	rent research man	uscript that is ready
Skills				
Resear • The a hypoth	ch and analysis skill ability to identify the neses.	s research problem a	nd formulate resea	arch questions and
• Skill • Scier	s in collecting data an atific writing and doc	nd information in an cumentation skills:	organized and re	liable manner.
• The a	ability to critically ar	nd objectively evaluated	ate the literature a	nd results.
Ethics				
Cor rese	nmitment to ethical a arch and applying its	and professional law s results and respect	s and behaviors ir and research coop	n conducting peration
• Cor	itribution to the deve	lopment of knowled	ge and practices i	n scientific research

Respect for intellectual property rights, patents, and copyrights.

Teaching and Learning Strategies

• Direct instruction: Graduate students deliver lectures based on approved sources to develop presentation and public speaking skills using PowerPoint slides and displaying them through a data projector.

• Cooperative learning by encouraging communication and collaboration with research groups to achieve common goals.

• Organizing scientific seminars and conferences to exchange knowledge and experiences and expand the students' scientific network.

• Discussion, questioning, dialogue, and brainstorming.

9. Evaluation methods

- Mid-term exam and a final course exam to assess knowledge, understanding, and reasoning in relation to the student's level of ability and comprehension of the course content.
- Scientific discussion sessions to measure the student's ability to present information, select appropriate responses, and prepare the students to write scientific reports by choosing important topics in the field of research methodology.
- Providing mechanisms to monitor student progress and provide academic feedback and guidance.

10. Faculty

Academic Rank	Specializ	ation	Special Requirements/Skills (if applicable)	Number teaching	of the staff
	General	Special		Staff	Lecturer
Assistant professor	Biology	Microbiology and Immunology		staff	

Professional Development

Mentoring new faculty members

• The program organizes the following to help students develop skills and expertise in academic research writing and publication:

Professional development of faculty members

- Participation in specialized workshops and discussion sessions on the latest developments in the field of scientific research, publishing methods, and writing scientific papers.
- Attending relevant scientific conferences and seminars to stay up-to-date on the latest trends in writing and publishing scientific research.

- Conducting research and updating the curriculum to align with scientific and research advancements.
- Providing training and guidance to faculty members in the field of supervising graduate students.

11. Acceptance Criterion

According to the regulations, the postgraduate program in microbiology at the College of Veterinary Medicine, University of Tikrit

12. The most important sources of information about the program

- The official website of the Veterinary Medicine Program at the University of Tikrit
- The student handbook or academic guide
- Assessments and rankings of the program by accreditation agencies or academic institutions
- The Postgraduate Studies and Follow-up Unit

13. 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:

Discussions, research seminar presentations, student involvement in research collaborations, and attendance at public lectures on the latest developments in research methodology.

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							Requ	uired p	rogra	m Lea	rning	outcom	es		
	Course	Course Name	Basic or ontional	Knov	wledge			Skills				Ethics			
				Al	A2	A3	A4	B1	B2	B3	B4	CI	C2	C3	C4
		Research methodology	Basic		~	7	7		>	>			~	~	
I															

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

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Course Description Form

1 Co	nurse Name.	2	
Research	methodology	2.	
3. Co	ourse Code:	4.	
5. Se	mester / Year:	6.	
2023-202	4/ postgraduate		
7. De	escription Preparation Date:	8.	1992
10/4/2024			
9. A	vailable Attendance Forms:	10.	
At	tendance		
11. N	umber of Credit Hours (Total) / Number of Units (Total)	12.	
30	theoretical hours + tow theoretical hour per week		
13. Co	ourse administrator's name (mention all, if more than one name)	14.	
N	ame: Assist.Prof.Dr. Agharid Ali Hussein email: agharidalrasheed@tu.edu.iq		
15. Co	ourse Objectives	16.	
1. Th re	the program aims to provide students with a comprehensive understanding of: Scientific search methods, design of scientific experiments.		
2. a	cademic writing a thesis and scientific research		
17. Te	eaching and Learning Strategies	18.	
Strategy	 Interactive lectures: Presenting the basic concepts and theories by the advan faculty, and encouraging discussions and dialogues between students and lecturers Developing analytical thinking skills, problem-solving, and enhancing research scientific writing skills for the master's thesis and research papers. Presentations and research reports prepared and presented by the students. Group discussions, debates, and exchange of opinions and ideas between students supervisors. Enhancing communication and critical skills, and encouraging students to use 		
	 supervisors. Enhancing communication and critical skills, and encouraging students to use central and electronic library as a method of learning. 		

10.Course st Course level	ructure : postgraduate				
Course Nam Semester: Se	e: Research methodol	ogy			
Evaluation methods	Learning methods	Subjects name	Learning methods outcomes	Hours	weeks
Questions, and discussion	Presenting the lecture using (PPT) slides, with clarification and explanation	Ethics of scientific research	Ethical principles in scientific research	6	2-1
Questions, and discussion	Presenting the lecture using (PPT) slides, with clarification and explanation	Scientific research	the importance of scientific research in society and human progress, and characteristics of a scientific researcher	2	4-3
Questions, and discussion		Types of research studies	a overview of the different classification of research studies based on their purpose, methodological design, data sources, and overall approach	2	5
		Mid-term exam	n		6
Questions, and discussion	Presenting the lecture using (PPT) slides, with clarification and explanation	The design of scientific experiments	the key principles and main elements involved in the design of scientific :experiments	2	7
Questions, and discussion	Presenting the lecture using (PPT) slides, with clarification and explanation	Research proposal	the key elements of a research proposal, defining the research problem, and determining the sample size	4	9-8
Questions, and discussion	Presenting the lecture using (PPT) slides, with clarification and explanation	Citation and referencing:	the types of direct and indirect citations, and how to write references in APA 7th edition:	4	10
		Mid-term exam			11
Questions, and discussion	Presenting the lecture using (PPT) slides, with clarification and explanation	Writing of thesis and dissertation:	key components of a thesis or dissertation:	4	13-12
Questions, and discussion	Presenting the lecture using (PPT) slides, with clarification and explanation	Writing of research paper	key steps in writing a research paper		14
		Final exam			

1. Course Evaluation	
Student performance is evaluated through the follo (30%) and Final Examination 70%.	owing assessments: Midterm Examination
2. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	كتاب_جودة_البحث_العلمي
	الاخلاقيات –المنهجية-الاشراف-كتاية الرسائل والبحوث العلمية
	على ابراهيم عبيدو الطبعة الاولى 2014
	Howell, K. E. (2013) Introduction to the
	Philosophy of Methodology. London: Sage
	Publications
Main references (sources)	Lodico, Marguerite G.; Spaulding, Dean T.;
	Voegtle, Katherine H. (2010). Methods in
	Educational Research: From Theory to Practice.
	Wiley. ISBN 978-0-470-58869-7.
Recommended books and references (scientifi	c APA Format Citation Guide •
journals, reports)	https://www.mendeley.com/guides/apa-citation-
	guide/
	Formatting - APA Referencing Style Guide - Library
	Guides at Oniversity of Walkato
Electronic References, Websites	Sampling Methods In Reseach: Types,
na anna an an Anna ann an Anna ann an Anna ann an Anna ann an A	Techniques, & Examples:
	Sampling Methods In Reseach: Types, Techniques, &
	Examples (simplypsychology.org)
	Statistics Online STAT ONLINE (psu.edu)