

**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**

## **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 staP 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, quaJerly), as well as the adoption of the academic program description circulated according to the letter of the Department of Studies T ٣/٢٩.٦ on ٣/٥/٢٠٢٣ 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.

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### Academic Program Description Form

University Name: Tikrit University

Faculty/Institute: Veterinary Medicine

Scientific Department: Medicine, Surgery and Obs.

Academic or Professional Program Name: Reproductive biotechnology

Final Certificate Name: Bachelor of Veterinary Medicine and Surgery

Academic System: Semester

Description Preparation Date: 5 / 10/2024

File Completion Date: 6 / 10/2024

Signature:

Head of Department Name:

Montaser Mohamad Helal

Date: 6/10/2024

Signature:

Scientific Associate Name:

Prof. Dakheel Hussein Hedree

Date: 6/10/2024

The file is checked by:

Assist. Prof. Dr Ahmed Abdullah Sultan

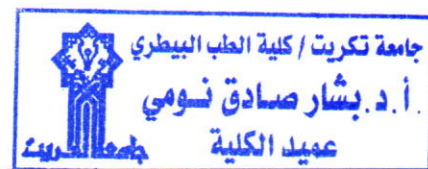
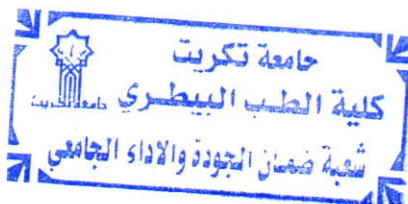
Quality Assurance And University Performance Manager

Date : 6 / 10 / 2024

Signature:

Approval of the Dean

Prof. Dr. Bashar Sadeq Numi





### ١. Program Vision

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

Teaching students how to deal with various infection cases that may occur or be performed on different animals, as well as teaching the subject of veterinary obstetrics and various reproductive diseases that are taught within the subjects of the First and third stages.

### ٢. Program Mission

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

The courses of the microbiology department enable the student to know and understand the relationship between the department subjects and other closely related science courses, such as physiology and diseases, and their relationship to the functions of organs, and how to benefit from this knowledge in other applied sciences.

### ٣. Program Objectives

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

Providing students with integrated knowledge of microbiology sciences, veterinary obstetrics, and technologies that helps them scientifically and practically in understanding and assimilating other veterinary sciences.

### ٤. Program Accreditation

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

No

### ٥. Other external influences

No

٦ Program Structure				
Program Structure	Number of Courses	Credit hours	Percentage	Reviews•
Institution Requirements	٥	١٠	٧%	
College Requirements	٦٦	٢٧٠	٩١,٧%	
Department Requirements	-	-	-	
Summer Training	١	١٥	١,٣%	
Other				

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

٧. Program Description				
Year/Level	Course Code	Course Name	Credit Hours	
Fifth	VEC•1٧	Reproductive technology	theoretical	practical
			١٥	٣.
٨. Expected learning outcomes of the program				
Knowledge				
Learning Outcomes ١		Learning Outcomes Statement ١		
Skills				
Learning Outcomes ٢		Learning Outcomes Statement ٢		
Learning Outcomes ٣		Learning Outcomes Statement ٣		
Ethics				
Learning Outcomes ٤		Learning Outcomes Statement ٤		
Learning Outcomes ٥		Learning Outcomes Statement ٥		
Learning Outcomes ٦		Learning Outcomes Statement ٦		
Learning Outcomes ٧		Learning Outcomes Statement ٧		
Learning Outcomes ٨		Learning Outcomes Statement ٨		
Learning Outcomes ٩		Learning Outcomes Statement ٩		
٩. Teaching and Learning Strategies				
Teaching and learning strategies and methods adopted in the implementation of the program in general.				
١- The method of delivery is accompanied by interrogation by asking direct questions to the students and involving them in the lecture. ٢- Conducting various types of clinical examinations of the reproductive system in large and small animals in the animal field. ٣- Assigning the student to write reports related to the course topics. ٤- Displaying pictures and films of obstetric maneuvers through the data show device				
١٠. Evaluation methods				
Implemented at all stages of the program in general.				

١١. Faculty						
Faculty Members						
Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
١- Prof. Dr. maythem abdalilah asmial ٢- Assi. Prof. Dr. Nawaf Nooraldeen Dhaher ٣- Assi. Prof. Dr. Ali Aziz Abd	Veterinarian medicine	Obstetrics			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.

### ١٢. Acceptance Criterion

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

### ١٣. The most important sources of information about the program

State briefly the sources of information about the program.

### ١٤. Program Development Plan

Program Skills Outline															
				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A <sup>1</sup>	A <sup>2</sup>	A <sup>3</sup>	A <sup>4</sup>	B <sup>1</sup>	B <sup>2</sup>	B <sup>3</sup>	B <sup>4</sup>	C <sup>1</sup>	C <sup>2</sup>	C <sup>3</sup>	C <sup>4</sup>
Fifth	VEC <sup>0111</sup>	Male Fertility and Artificial Insemination		√	√	√	√	√	√	√	√	√	√	√	√
	VEC <sup>0112</sup>	Reproductive Techniques		√	√	√	√	√	√	√	√	√	√	√	√

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

## Course Description Form

1. Course Name:	
Reproductive Techniques	
2. Course Code:	
VEC011	
3. Semester / Year:	
second semester 2023-2024	
4. Description Preparation Date:	
2024	
5. Available Attendance Forms:	
Mandatory attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Total Credit hours 40 (Theory +Practical) :Total Units 3	
7. Course administrator's name (mention all, if more than one name)	
Name: <b>Dr. Nawaf Nooraldeen</b> Email: <a href="mailto:nawaf...@tu.edu.iq">nawaf...@tu.edu.iq</a> Name: <b>Dr. maythem A Ismaeel</b> Email: <a href="mailto:dr.maythem.ir.78@tu.edu.iq">dr.maythem.ir.78@tu.edu.iq</a>	
8. Course Objectives	
<b>Course Objectives</b>	1-Identify the most important reproductive techniques in the field of veterinary medicine 2-Teaching the student methods for examining the female reproductive system in various field animals 3-Identify methods of diagnosing reproductive diseases.
9. Teaching and Learning Strategies	
<b>Strategy</b>	1- The method of delivery is accompanied by interrogation by asking direct questions to the students and involving them in the lecture. 2- Conducting various types of clinical examinations of the reproductive system in large and small animals in the animal field. 3- Assigning the student to write reports related to the course topics. 4- Displaying pictures and films of obstetric maneuvers through the data show device

10. Course Structure					
Week	Hours	Required Learning	Unit or subject name	Learning method	Evaluation
		Outcomes			method
First	1	Ultrasonography – general information	Learn about the uses of sonar in large and small animals	Lecture	Exam
second	2	Clinical Application of Ultrasonography	Gain the skill and learn the methods of unifying estrus in animals	Lecture	Exam
Third	1	Ultrasonography in large animals	Learn about the methods of unifying estrus in cattle, sheep and goats	Lecture	Exam
Fourth	2	Ultrasonography in small animals	Learn about the methods of unifying estrus in cattle, sheep and goats	Lecture	Exam
Fifth	1	Estrus Synchronization	Learn about the methods of unifying estrus in cattle, sheep and goats	Lecture	Exam
Ssixth	2	Estrus Synchronization in Bovine	Learn about the methods of unifying estrus in cattle, sheep and goats	Lecture	Exam
Seventh	1	Estrus Synchronization in Ovine and Caprine	Learn about the methods of unifying estrus in cattle, sheep and goats	Lecture	Exam
Eighth	2	Controlling the Age of Puberty	Learn about controlling puberty	Lecture	Exam
Ninth	1	Exam first			
Tenth	2	Controlling the Age of Puberty	Learn about controlling puberty	Lecture	Exam
Eleventh	1	Super ovulation	Learn about the methods of controlling puberty and causing hyperovulation	Lecture	Exam
Twelvish	2	Super Ovulation	Learn about the methods of controlling puberty and causing hyperovulation	Lecture	Exam
Thirteenth	1	Embryo Transfer	Perform and gain experience in causing hyperovulation and transferring embryos	Lecture	Exam

Fourteenth	٢	<b>Embryo transfer</b>	Learn about the basics and methods of embryo transfer	Lecture	Exam
Fifteenth	١	<b>Intrauterine Insemination</b>	Learn how to perform intrauterine insemination and collect and mature eggs	Lecture	Exam

<b>11. Course Evaluation</b>					
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					
<b>12. Learning and Teaching Resources</b>					
Required textbooks (curricular books, if any)			1- <b>Veterinary reproduction and</b> <b>(Noakes et.al. 2009)</b>		
Main references (sources)			2- <b>Veterinary endocrinology</b> <b>reproduction (McDonalds and</b>		
Recommended books and references (scientific journals, reports...)			<b>reproduction (McDonalds and</b> <b>(McDonalds</b> <b>.2003).</b>		
Electronic References, Websites			<b>Veterinary medical journals issued by Iraqi -</b> <b>.veterinary medical colleges Arab and</b> <b>international medical journals</b>		