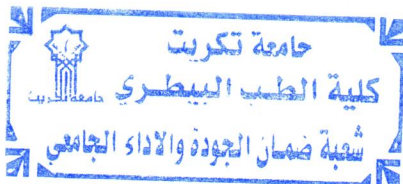


Ministry of Higher Education and Scientific Research
Scientific Supervision and Scientific Evaluation Apparatus
Directorate of Quality Assurance and Academic Accreditation
Accreditation Department



Academic Program and Course Description Guide

2025 - 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: Tikrit

Faculty/Institute: Veterinary Medicine

Scientific Department: Public Health

Academic or Professional Program Name: Veterinary medicine and surgery

Final Certificate Name: Bachelor of Veterinary Medicine and Surgery

Academic System: quarterly

Description Preparation Date: 20/1/2026

File Completion Date: 20/1/2026



Signature:

P.h.D. Ali Qays Jalil

Dr. Veterinary public health

Date: 20/1/2026

Signature:

Dr.

Asst. Prof. Dr.

Date: 20/1/2026

Muhsen M. Helal

The file is checked by:

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

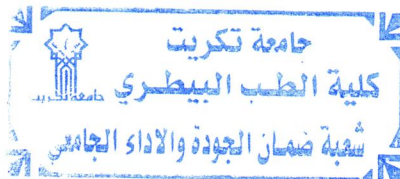
Date: 20/1/2026

Signature:

Asist. Prof. Dr.

Ahmed Abdullah Sultan

Tikrit University
College of Veterinary Medicine
Prof. Dr. Bashar Saad Noomi
Dean of the College





Ministry of Higher Education and
Scientific Research – Iraq
Tikrit University
Faculty of Veterinary Medicine



MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	Applied Statistics	Module Delivery	
Module Type	C	<input type="checkbox"/> Theory <input type="checkbox"/> Lecture <input type="checkbox"/> Lab <input type="checkbox"/> Practical <input type="checkbox"/> Seminar	
Module Code	VET210		
ECTS Credits	3		
SWL (hr./sem)	48		
Module Level	2		
Administering Department	Public Health	College	Veterinary Medicine
Module Leader	Osama H. Shihab	e-mail	Osamahameed61@tu.edu.iq
Module Leader's Acad. Title	Assis. Prof.	Module Leader's Qualification	PH.D- Animal Breeding
Module Tutor	Assis. Lec. Rana Waleed khaild	e-mail	ranawaleed@tu.edu.iq
	Assis. Lec. Asmaa wadulla hasan saleh		asmaa.w.hasan@tu.edu.iq
Peer Reviewer Name	PhD. Ali Qays Jalil	e-mail	alijalil85@tu.edu.iq
Scientific Committee Approval Date	20 \ 1 \ 2026	Version Number	1.0

Relation with other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	None	Semester	
Co-requisites module	None	Semester	

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Objectives أهداف المادة الدراسية	1- Organizing the data that is usually obtained with statistical tables or graphs for the purpose of processing it mathematically to facilitate access to it and identify some preliminary indicators . 2- Processing data mathematically to extract numerical results that have statistical indicators such as measures of central tendency, dispersion, correlation and regression coefficients, etc. 3- Learn how to analyze the results, which is one of the most important stages of the statistical process, without which the results remain just dumb, meaningless numbers
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1-Cognitive goals. 2-Enabling students to know the basics of statistics, such as measures of central tendency, measures of dispersion, correlation and regression coefficients . 3-Enable students to know and understand the variance distribution table and statistical tests such as the Z test , and T -test And chi-square test
Indicative Contents المحتويات الإرشادية	1-Providing the student with skills in how to tabulate and display data in a tabular or graphical form . 2-Providing the student with skills in how to apply statistical laws related to various statistical standards and evaluate the results of their application and interpretation . 3-Providing the student with the appropriate skills to choose the appropriate statistical test for the objective of the prescribed scientific research

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	1- How to collect data from primary numerical information obtained from governmental or private sources or through testing a sample without the need to study the entire community. 2-Organizing the data that is usually obtained with statistical tables or graphs for the purpose of processing it mathematically to facilitate access to it and identify some preliminary indicators . 3-Processing data mathematically to extract numerical results that have statistical indicators such as measures of central tendency, dispersion, correlation and regression coefficients, etc. 4-Learn how to analyze the results, which is one of the most important stages of the statistical process, without which the results remain just dumb, meaningless numbers.

Student Workload (SWL)			
الحمل الدراسي للطالب محسوب لـ ١٥ أسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	21	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	2
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	27	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	1
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	48		

Module Evaluation					
تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	5 and 10	LO #1, #2 and #10, #11
	Assignments	2	10% (10)	2 and 12	LO #3, #4 and #6, #7
	Projects / Lab.	1	10% (10)	Continuous	All
	Report	1	10% (10)	13	LO #5, #8 and #10
Summative assessment	Midterm Exam	2hr	10% (10)	7	LO #1 - #7
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
المنهاج الاسبوعي النظري	
	Material Covered
Week 1	Definition statistics and statistical symbols.
Week 2	Descriptive study of the data
Week 3	Mediate measures (concentration)
Week 4	Dispersion and differences measurements
Week 5	Simple regression and correlation
Week 6	Principles of probability
Week 7	Discrete probability distributions
Week 8	Continuous probability distributions
Week 9	Hypotheses Testes
Week 10	Z test
Week 11	t test
Week 12	X ² test
Week 13	Definition statistics and statistical symbols.
Week 14	Descriptive study of the data
Week 15	Mediate measures (concentration)
Week 16	Dispersion and differences measurements

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	Definition statistics and statistical symbols.
Week 2	Descriptive study of the data
Week 3	Mediate measures (concentration)
Week 4	Dispersion and differences measurements
Week 5	Simple regression and correlation
Week 6	Principles of probability
Week 7	Discrete probability distributions
Week 8	Continuous probability distributions
Week 9	Hypotheses Testes
Week 10	Z test
Week 11	t test
Week 12	X ² test
Week 13	Definition statistics and statistical symbols.
Week 14	Descriptive study of the data
Week 15	Mediate measures (concentration)

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	Required textbooks. Introduction to Statistics, by Dr. Khashaa Mahmoud Al-Rawi.	yes
Recommended Texts	External reference books.	yes
Websites	https://www.coursera.org/learn/stanford-statistics	

Grading Scheme

مخطط الدرجات

Group	Grade	التقدير	Marks %	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 - 49)	FX - Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F - Fail	راسب	(0-44)	Considerable amount of work required

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54). The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.