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 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: Bachelor of vet. Medicine .....

Final Certificate Name: Bachelor of veterinary medicine and surgery .....

Academic System: quarterly .....

Description Preparation Date: 15\10 / 2024.

File Completion Date: 20 /1 / 2025.

Signature:

Head of Department Name:

Prof.Dr.Buthaina Abdulhameed

Date:

Signature:

Scientific Associate Name:

Ass. Prof..Dakeel Hussein Hadree

Date:

فرع الفسلجة والادوية والكيمياء الحياتية
كليه الطب البيطرى

The file is checked by: Ahmed Abdullah Sultan

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date: 6/10/2024

Signature:

جامعة تكريت
كلية الطب البيطري
شعبة ضمان الجودة والاداء الجامعي

Approval of the Dean:

جامعة تكريت / كلية الطب البيطري
أ.د. بسار صادق لومي
عميد الكلية

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

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

3. **Program Objectives**
General statements describing what the program or institution intends to achieve.

4. **Program Accreditation**
Does the program have program accreditation? And from which agency?

5. **Other external influences**
Is there a sponsor for the program?

6. **Program Structure**

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements	4	3		Basic course
College Requirements	yes			
Department Requirements	Yes			
Summer Training	No			
Other				

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

7. Program Description

Year/Level	Course Code	Course Name	Credit Hours	
2024-2025 (1st)	vEP3l 16	Clinical Toxicology	theoretical	
Post graduate				

8. Expected learning outcomes of the program

Knowledge

Cognitive objectives.
1- Enabling students with good advanced knowledge of clinical toxicology.
2- Enabling students to conduct advanced scientific research and expand scientific research work in the field of toxicology as well as in pharmacology
3- Enabling graduate students to develop their skills by attending seminars related to toxicology and pharmacology.

Skills

1- Providing the student with skills in how to deal with various types of laboratory animals for the purpose of conducting scientific experiments.

2- Providing the student with skills in how to use laboratory equipment.

3- Providing the student with the appropriate skills to administer medications and other materials to laboratory animals.

4- Giving the student the skills to use tissue culture for the purpose of experimenting with drugs and toxins.

Ethics

9. Teaching and Learning Strategies

1- Theoretical lectures.
2- Scientific seminars and courses
3- Seminars that students are assigned to present and discuss with them.
4- Scientific discussions during scheduled scientific lectures, asking questions, and

brainstorming for graduate students.

10. Evaluation methods

1- Daily, monthly and final exams.

2- Reports.

3- Seminars

11. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Prof.Dr.	Veterinary medicine and surgery	Veterinary pharmacology			staff	

Professional Development

Mentoring new faculty members

Attending scientific seminars and courses, as well as keeping up with seminars and courses held electronically at international universities

Professional development of faculty members

Explaining the mechanism for arranging and sequencing lectures, as well as the assessment and evaluation methods used for graduate students

12. Acceptance Criterion

Competitive examination and the ministry's plan

13. The most important sources of information about the program

1- Barile's Clinical Toxicology, Principles and Mechanisms, Third Edition
2- External source books. Veterinary Toxicology: Basic and Clinical Principles 3rd EditionSheep flock health (Neil sargison)

14. Program Development Plan

Updating the curriculum by updating lectures and modern scientific sources

Program Skills Outline															
				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
2024-2025 1st	vEP31 16	Clinical Toxicology	Basic										⊗		

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

Course Description Form

1. Course Name:
Clinical Toxicology
2. Course Code:
3. Semester / Year:
First semester
4. Description Preparation Date:
2025
5. Available Attendance Forms:
My presence
6. Number of Credit Hours (Total) / Number of Units (Total)
45 / 3
7. Course administrator's name (mention all, if more than one name)
Name: prof. dr. Siham Agme Wadee. Email: sihamwadee@tu.edu.iq
8. Course Objectives
1- Cognitive objectives. 2- Enabling students to know animal management while making optimal use of the capabilities available to house and care for animals. 3- Enabling students to know and understand the science of management and methods of raising animals.
9. Teaching and Learning Strategies
1- Educational strategy, collaborative concept planning. 2- Brainstorming education strategy. 3- Education Strategy Notes Series
10. Course Structure

16 - Course level: first year
Course Name: Animal management / 2 hours
Semester: first and Second

Evaluation method	Teaching method	Name of unit/course or subject	Required learning outcomes	Hours	Week
Questions and discussion	Lecture explanation	1-Introduction To Basic Toxicological principles,Risk assessment and regulatory toxicology	Introduction Basic definition Types of toxicology Types of toxicologists	Theoretical 3	1
Questions and discussion	Lecture explanation	2-Therapeutic Monitoring of Adverse Drug Reactions ADRs, Classification of Toxins.	1-Adverse drugs reactions in clinical practice 2-Institute of Medicine (IOM) Objectives and Methods Concerning Growing Medication Errors. 3-Therapeutic Monitoring of Adverse Drug Reactions (ADRs). 4-Factors that contribute to adverse. 5-Drug Reactions factors	Theoretical 3	2
Questions and discussion	Lecture explanation	3-Exposure,Effects (general classification and chemical interaction).	1-Duration and frequency. 2-Rout of exposure 3-accumulation	Theoretical 3	3
Questions and discussion	Lecture explanation	4-Dose responce ,Descriptive of Animal Toxicity Test.	1-Types of Dose –response relationships. 2-Concentration effect and presence at the receptor site 3-LD50% 4-Eperimental protocol.	Theoretical 3	4
Questions and discussion	Lecture explanation	5-Toxicokinetics ,In vitro Alternatives to animal Toxicants.	١ -Toxicokinetic ,relative to Pharmacokinetic 2-Absorption,Distribution ,Metabolism,and Eliminatioin. 3-In vitro methods 4-Cell culture.	Theoretical 3	5
Questions and discussion	Lecture explanation	6-Chemical and drug receptor interaction ,Toxicogenomic .	1-Types of chemical and drug receptors. 2-Signal transduction.	Theoretical 3	6
Questions and discussion	Lecture explanation	7-Toxicity by Opioid and related agents.	1-Opioid. 2-Classifications 3-Mechanism action and adverse effect 4-Antidote and therapy of toxicity.	Theoretical 3	7
Questions and discussion	Lecture explanation	8-Toxicity by none therapeutic agents(Alcohols and aldehydes,Metales,Gases,Alephatic and aromatic hydrocarbons,Insecticides,Hebicides and Rodenticides.	1-Toxicity by metas 2-Alchole and aldehyde toxicity . 3-Gases toxicity. 4-Hydrocarbones toxicity. 5-Pesticides:Insecticides Herbicides,Fungicides,and Rodenticides	Theoretical 3	8
Questions and	Lecture explanation	9-Chemical Carcinogenesis and mutagenesis.	1-Mechanisms of chemical carcinogenesisCARCIN	Theoretical 3	9

discussion			2-Metabolism. 3-free radicals and reactive oxygen species.		
Questions and discussion	Lecture explanation	10-reproductive and Developmental toxicity.	1-Drugs affecting embrionic and fetal development 2-Endocrine desrupting chemicals.	Theoretical 3	10
Questions and discussion	Lecture explanation	11-Radiation toxicity,chemical and biological threats to puplic health .	1-Principles of radioactivity 2-Ionizing radiation. 3-Ultra ionization UV R	Theoretical 3	11
Questions and discussion	Lecture explanation	12-Therapeutic agents toxicity(Cardiovascular toxicogy).	1-Epidmiology. 2-Digitals glycosides. 3-Beta adrenergic drugs 4-Calcium chanels inhibitors . 5-ACE inhibitors.	Theoretical 3	12
Questions and discussion	Lecture explanation	13-Toxicity by herbal remedies.	Toxicity by herbal or some plant.	Theoretical 3	13
Questions and discussion	Lecture explanation	14-Toxicity by vitamines .	1-Toxicity by Vitamins	Theoretical 3	14
Questions and discussion	Lecture explanation	15-Toxicity by None steriodal anti-inflammatory drugs	١ -Acetaminophen Tox. 2-Aspirin Tox. 3-Treament and antidote.	Theoretical 3	15

11. Course Evaluation

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

12. Learning and Teaching Resources

1- Barile's Clinical Toxicology, Principles and Mechanisms,Third Edition.
2- Veterinary Toxicology: Basic and Clinical Principles 3rd Edition.