

**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
Pharmacology &
Toxicology**

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.

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: University of Kirkuk

Faculty/Institute: College of Pharmacy

Scientific Department: Pharmacology & Toxicology

File Completion Date: 22/2/2024

Signature:

Head of Department:

Asst. Prof. Ameera Kamal Mohammed

Date: 4/4/2024

Signature:

Scientific Associate:

Asst. Prof. Muhsin Hamed Edham

Date: 4/4/2024

The file is checked by:

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Sarah Mohammed Najeeb

Date: 4/4/2024

Signature:

Approval of the Dean

1. Program Vision

1. Create cultural and scientific communication atmosphere with the world to raise and develop the University and put it into its rightful place in the global universities rank.
2. Sustaining and assuring an academic, institutional and research environment at the university to reach the highest ranks among national and international universities.
3. Strive for developing university performance in all its scientific and administration branches to achieve highest levels of development through future objectives and plans, and follow-up on its implementation.

2. Program Mission

The university is the eye of community, and to develop and raise the university is considered the ethical and moral responsibility everyone must endure.

3. Program Objectives

1. For students to remember types of simple disease and the way to handle such diseases in pharmacies through-out the knowledge of human body's physiology.
2. For students to know the causes, symptoms of diseases and the ways to diagnose and treatment of each case.
3. For students to be aware of the importance of pharmacy profession ethics.
4. For students to experience the necessary communication skills in pharmacies whether in private or general sector.

5. For students to analyze the basics of pharmacoeconomics.
6. For students to appreciate the study of hazard drugs concentration calculation methods in blood and how to handle it and the way to calculate the dosages to be fit for the patient's case in terms of age, diseases and other treatments to avoid pharmacological intervention.
7. For students to try the work of drugs in treating patients and the different disorders affecting humans.
8. For students to determine the high-toxicity drugs and know the ways of its treatment in case of poisoning as result of taking such drugs.

4. Program Accreditation

Quality Assurance

5. Other external influences

Practical Training Courses in hospitals, labs and private pharmacies.

6. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements				
College Requirements	66	184	100%	Basic
Department Requirements	14	40	21%	Basic
Summer Training	---	---	---	Fulfilled
Other				

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

7. Program Description

Year/Level	Course Code	Course Name	Credit Hours	
			theoretical	practical
First Year		Medical Terminology	1	–
Second Year		Physiology 1	3	2
		Physiology 2	3	2
Third Year		Pharmacology 1	3	–
Fourth Year		Clinical Pharmacy 1	2	2
		Clinical Pharmacy 2	2	2
		Pharmacology 2	3	2
		Pharmacology 3	2	–
		General Toxicology	2	2
Fifth Year		Applicable Treatments 1	3	–
		Applicable Treatments 2	2	–
		Pharmaceutical equivalence	2	2
		Hospital Training	–	4
		Clinical Toxicology	2	2

8. Expected learning outcomes of the program

Knowledge	
The study of material basis related to Pharmacology and Toxicology.	<ol style="list-style-type: none"> 1. For students to know the causes, symptoms, and diagnose of different diseases and the way to prescribe drugs in pharmacies for simple cases that does not require the prescription of a doctor. 2. Scientifically educate the students within their specialty as well as educate students on how to handle patients. 3. The student shall be able to educate the community about the harm of some drugs and their incorrect use. 4. The student shall know how to prepare and present various

	seminars and lectures within his specialty.
Skills	
Gain various skills on how to handle patients and drugs in governmental hospitals and private pharmacies.	<ol style="list-style-type: none"> 1. Gain skill in international ethics in handling patients and their families. 2. Gain skills in clinical discussions and communication skills with patients in a stimulation method (the student as a pharmacist and as a patient). 3. Gain skills of explaining the different medical conditions and their treatment and provide reports for the different medical conditions facing the student during his training at a hospital or during his work in a pharmacy and discuss the results and provide pharmacological treatments. 4. Gain skills of calculating blood-hazard drugs concentrations and how to handle them to avoid the toxicity of the drug towards the patient and the way of treating poisoning cases whether by the use of anti-toxins or by the use of techniques to decrease the concentration in the human body.
Ethics	
Develop the abilities of the student in handling community health and contribute in providing safe and active drugs.	<ol style="list-style-type: none"> 1. The student shall have full knowledge, through his course study, of the ways of community health-care. 2. The student shall search for pharmacological and health phenomena in his community. 3. The student shall accept the idea of proof or disproof some basic principals in pharmacy and medical sciences. 4. The student shall be eager to provide a safe and active drug to the community, and shall have the ethics to correctly handle patients.

9. Teaching and Learning Strategies

1. White board and presentation slides.
2. Educational labs.
3. Practical and scientific researches, discussion courses, seminars and educational workshops.
4. Summer training in private pharmacies.

5. Mandatory training in hospitals within the clinical subjects and lab trainings.

10. Evaluation methods

1. Oral inside–class questions.
2. Pop quizzes.
3. Homework reports.
4. Practical exams after experiments.
5. Mid–term exams.
6. Oral exams after lab experiments.
7. Final exams of the theoretical subject.
8. Summer training locations field visits.

11. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Asst. Prof.	Biology	Biology Physiology			/	
Asst. Prof.	Biology	Biology Physiology			/	
PhD.	Pharmacy	Clinical Pharmacy			/	
Asst. Lect.	Pharmacy	Pharmacology			/	
Asst. Lect.	Biology	Biotechnology			/	
Asst. Lect.	Biology	Microbiology			/	

PhD	Pharmacy	Pharmacology			/	
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Professional Development

Mentoring new faculty members

- Urge the lecturers to organize courses, seminars and workshops periodically and participate in local and international scientific conferences.
- Urge the lecturers to publish scientific researches within their specialty through well-recognized journals.

Professional development of faculty members

- Participate in academic courses, seminars, workshops and discussions that shed the light on different educational fields.
- Participate in developing the syllabuses.
- Actively participate in scientific conferences.
- Motivate the lecturer to use different educational methods in delivering the scientific subject to the student.

12. Acceptance Criterion

The student is accepted within the central acceptance plan of the Ministry of Higher Education and Scientific Research.

13. The most important sources of information about the program

1. College staff.
2. Lectures of the teaching staff.
3. College Library.
4. Electronic library.
5. Syllabuses.

6. Helper books.

7. Internet.

14. Program Development Plan

Adding new subjects to follow-up the scientific development in pharmacy, especially in the pharmacology and toxicology.

Guide the researches of students towards the applicable projects to contribute in fixing community problems.

