




## Academic Program Description Form

**University Name:** Thi-Qar  
**Faculty/Institute:** Pharmacy  
**Scientific Department:** .....  
**Academic or Professional Program Name:** Bachelor of Pharmacy  
**Final Certificate Name:** Pharmacy  
**Academic System:** Semesters  
**Description Preparation Date:** 28-2-2024  
**File Completion Date:** 28-2-2024

**Signature:**  
**Head of Department Name:**  
  
**Date:**

**Signature:**   
**Scientific Associate Name:**  
Asst. prof. Shireen Ali Hasan  
**Date:**

**The file is checked by:**  
**Department of Quality Assurance and University Performance**  
**Director of the Quality Assurance and University Performance Department:** Ass. Lec Tiba Thamer  
**Date:** 31/3/2024  
**Signature:** 

  
**Approval of the Dean**  
Asst. prof. Dr. Firas  
F. Alywan

**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**

## **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**

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**Faculty/Institute: Pharmacy**

**Scientific Department: .....**

**Academic or Professional Program Name: Bachelor of Pharmacy**

**Final Certificate Name: Pharmacy**

**Academic System: Semesters**

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**Department of Quality Assurance and University Performance**

**Director of the Quality Assurance and University Performance Department:**

**Date:**

**Signature:**

**Approval of the Dean**

### **1. Program Vision**

Achieving excellence and innovation in pharmaceutical education and scientific research regionally and globally.

### **2. Program Mission**

Graduating qualified and professional pharmacists able to interact positively with the healthcare team and to achieve a leading role in scientific research and community service

### **3. Program Objectives**

1- To keep up with and provide the latest means of pharmaceutical education to upgrade and maintain the scientific level of pharmacists.

2- To develop the level of applied and practical studies and researches in the field of various pharmaceutical sciences which have direct impact in community service and environment development.

3- To graduate professionally distinguished pharmacists with high skills able to provide the best pharmaceutical services in various specialties and for all segments of society.

4- To spread the culture of right use of drugs in the community through holding seminars and issuing bulletins that show the dangers of non-scientific use of drugs.

5- To provide the pharmaceutical industry with specialized staff in this field.

### **4. Program Accreditation**

The Iraqi Ministry of Higher Education and Scientific Research, represented by the Supervision and Evaluation Authority, as well as the Committee of Deans of Colleges of Pharmacy

### **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	6	9	9.09	Essential
College Requirements	59	173	39.89	Essential
Department Requirements				
Summer Training	1	2	1.51	Essential
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 / First Semester		Human biology	2	2
First Year / First Semester		Principles of Pharmacy Practice	2	----
First Year / First Semester		Analytical Chemistry	3	2
First Year / First Semester		Medical Terminology	1	----
First Year / First Semester		Mathematics and Biostatistics	3	----
First Year / First Semester		Computer Sciences	----	2
First Year / First Semester		English Language	2	----
First Year / First Semester		Democracy and Human Rights	2	----
First Year / Second Semester		Human Anatomy	1	2
First Year / Second Semester		Pharmaceutical Calculations	2	2
First Year / Second Semester		Medical Physics	2	2
First Year / Second Semester		Organic Chemistry I	3	2
First Year / Second Semester		Histology	2	2
First Year / Second Semester		Computer Sciences	----	2
Second Year/First Semester		Organic Chemistry II	3	2
Second Year/First Semester		Medical Microbiology I	3	2
Second Year/First Semester		Physical Pharmacy I	3	2
Second Year/First Semester		Physiology I	3	2



Second Year/ First Semester		Democracy	1	---
Second Year/ First Semester		Computer Sciences	----	2
Second Year/ First Semester		Crimes of Ba'ath Regime in Iraq	2	----
Second Year/Second Semester		Organic Chemistry III	2	2
Second Year/Second Semester		Medical Microbiology II	3	2
Second Year/Second Semester		Physical Pharmacy II	3	2
Second Year/Second Semester		Physiology II	3	2
Second Year/Second Semester		Pharmacognosy I	3	2
Second Year/Second Semester		Computer Sciences	----	2
Second Year/Second Semester		Arabic Language	2	-----
Third Year / First semester		Inorganic Pharmaceutical Chemistry	2	2
Third Year / First semester		Pharmacognosy II	2	2
Third Year / First semester		Pharmaceutical Technology I	3	2
Third Year / First semester		Biochemistry I	3	2
Third Year / First semester		Pathophysiology	3	2
Third Year / Second semester		Organic Pharm. Chemistry I	3	2
Third Year / Second semester		Pharmacology I	3	----
Third Year / Second semester		Pharm. Technology II	3	2
Third Year / Second semester		Biochemistry II	3	2
Third Year / Second semester		Pharmacognosy III	2	2
Third Year / Second semester		Pharmacy Ethics	1	----
Fourth Year / First semester		Pharmacology II	3	2
Fourth Year / First semester		Organic Pharm. Chemistry II	3	2
Fourth Year / First semester		Clinical Pharmacy I	2	2
Fourth Year / First semester		Biopharmaceutics	2	2
Fourth Year / First semester		Public Health	2	----
Fourth Year / First semester		English Language	1	----



Fourth Year / Second semester		Pharmacology III	2	----
Fourth Year / Second semester		Organic Pharm. Chemistry III	3	2
Fourth Year / Second semester		Clinical Pharmacy II	2	2
Fourth Year / Second semester		General Toxicology	2	2
Fourth Year / Second semester		Industrial Pharmacy I	3	2
Fourth Year / Second semester		Communication Skills	2	----
Fourth Year / Second semester		English Language	1	----
Fifth Year / First semester		Organic Pharm. Chemistry IV	2	----
Fifth Year / First semester		Industrial Pharmacy II	3	2
Fifth Year / First semester		Applied Therapeutics-I	3	-----
Fifth Year / First semester		Clinical Chemistry	3	2
Fifth Year / First semester		Clinical Laboratory Training	----	4
Fifth Year / First semester		Clinical Toxicology	2	2
Fifth Year / First semester		Graduation project	1	----
Fifth Year /Second semester		Pharmacoeconomic	2	----
Fifth Year /Second semester		Applied Therapeutics-II	2	----
Fifth Year /Second semester		Therapeutic Drug Monitoring (TDM)	2	2
Fifth Year /Second semester		Advanced Pharmaceutical Analysis	3	2
Fifth Year /Second semester		Hospital Training	----	4
Fifth Year /Second semester		Dosage Form Design	2	----
Fifth Year /Second semester		Pharmaceutical Biotechnology	1	----

## 8. Expected learning outcomes of the program

### Knowledge

A-1 The student will demonstrate knowledge of and ability to understand the principles and the principles of various pharmaceutical sciences.

A-2 Students will demonstrate ability to understand the modern and advanced scientific topics in the disciplines of pharmacy.

Learning Outcomes Statement 1

<p>A-3 Students will be able to understand the sciences related to pharmacy from the medical, biological, and chemical sciences.</p> <p>A-4 Students will be able to know theoretical information and basic sciences.</p> <p>A-5 Students will be able to distinguish between a healthy person and a patient.</p>	
<b>Skills</b>	
<p>B1 – Students will be able to elicit an appropriate diagnosis for minor medical cases as well as to reach appropriate solutions related to pharmaceutical, chemical, and pharmacological aspects.</p> <p>B2 – Students will be able to write research and scientific tests in various pharmaceutical sciences.</p> <p>B3- Students will acquire the skills in diagnosing drugs and their side effects.</p> <p>B4- Students will acquire the skills in using different methods in the manufacture and preparation of drugs.</p>	
<b>Ethics</b>	
<p>C-1 Enhancing students' ability in logical thinking and analysis to solve manufacturing problems.</p> <p>C-2 Encouraging critical reading in relevant research.</p> <p>C-3 Instilling scientific integrity in students and how to deal with the patient.</p> <p>C-4 Enhancing the student's self-confidence through the practical side and preparation of some pharmaceutical compounds</p>	

**9. Teaching and Learning Strategies**  
 Lectures, lab work and graduation projects for the final year students

**10. Evaluation methods**

- 1- Mid-semester exams, practical exams, and final exams.
- 2- Quizzes.
- 3- Homework.
- 4- Writing scientific reports and seminars.

<b>11.Faculty</b>						
<b>Faculty Members</b>						
<b>Academic Rank</b>	<b>Specialization</b>		<b>Special Requirements/Skills (if applicable)</b>		<b>Number of the teaching staff</b>	
	<b>General</b>	<b>Special</b>			<b>Staff</b>	<b>Lecturer</b>
Professor / Ph.D.	Educational and psychological sciences	Kindergarten			1	
Assistant Professor / Ph.D.	Pharmacy	Clinical Biochemistry			1	
Assistant Professor / Ph.D.	Biology	Microbiology			1	
Assistant Professor/ Ph.D.	Biology	Biotechnology			1	
Assistant Professor / Ph.D.	Chemistry	Clinical Biochemistry			1	
Assistant Professor / Ph.D.	Biology	Biology			1	
Assistant professor / Ph.D.	Pharmacy	Pharmaceutical Chemistry			1	
Assistant professor / Ph.D.	Chemistry	Chemistry			1	
Assistant professor /Ph.D.	Medical Doctor	Pediatrician			1	
Assistant professor/ Ph.D.	Biology Sciences	Physiology			1	
Assistant professor/Ph.D.	Veterinary Doctor	Physiology			1	
Assistant professor/ Master	Chemistry	Organic Chemistry			1	
Assistant professor/Master	Pharmacy	Pharmacology			1	
Lecturer/ Ph.D.	Pharmacy	Pharmacology and toxicology			1	
Lecturer/ Ph.D.	Medical Doctor	Internist			1	
Lecturer / Ph.D.	Biology	Biology			1	

Lecturer / Ph.D.	Chemistry	Biochemistry			1	
Lecturer / Ph.D.	Veterinary Medicine and Surgery	Microbiology			1	
Lecturer / Ph.D.	English language	general linguistics				1
Lecturer/ Ph.D.	Pharmacy	Pharmaceutical Chemistry			1	
Lecturer/ Ph.D.	Chemistry	Analytical Chemistry			1	
Lecturer/ Ph.D.	Chemistry	Inorganic Chemistry			1	
Lecturer/ Ph.D.	Chemistry	Chemistry			2	
Lecturer / Ph.D.	Science of chemistry	Biochemistry			1	
Lecturer	pharmacy	Pharmaceutics			1	
Assistant Lecturer	Biology	Biology			5	
Assistant Lecturer	Media	Media management			1	
Assistant Lecturer	Arabic Language	Language/Grammar			1	
Assistant Lecturer	Chemistry	Chemistry			1	
Assistant Lecturer	Chemistry	Biochemistry			1	
Assistant Lecturer	Biology	Biotechnology			1	
Assistant Lecturer	History	Modern and Contemporary History			1	
Assistant Lecturer	Media	Media & Communication			1	
Assistant Lecturer	Law	Private Law			1	
Assistant Lecturer	mathematics	Applied mathematics				1
Assistant lecturer	Chemistry	Organic Chemistry			1	
Assistant lecturer	Chemistry	Chemistry			3	
Assistant lecturer /	Chemical Engineering	Waste water treatment			1	
Assistant lecturer	Pharmacy	Clinical Pharmacy			2	
Assistant lecturer	Biology Sciences	Physiology			2	

Assist lecturer	pharmacy	Pharmaceutics			1	
Assist lecturer	Pharmacy	Pharmacy sciences			1	
Assist lecturer	Biology	Biology			1	
Assist lecturer	Pharmacy	Microbiology				1
Assist lecturer	Pharmacy	Pharmaceutics				1
Assist lecturer	Pharmacy	Science in Pharmacology				1
Assist lecturer	Pharmacy	Sciences in pharmacy sciences				1

### **Professional Development**

#### **Mentoring new faculty members**

- 1- Urging new academic staff to attend lectures provided by experienced staff.
- 2- Urging new academic staff to attend and participate in training courses of the modern teaching methods.
- 3- Holding seminars and workshops on the development of scientific research skills methodology.

#### **Professional development of faculty members**

- 1- Urging the academic staff to attend and participate in training courses of the modern teaching methods.
- 2- Urging the academic staff to use blended learning.
- 3- Academic staff should not only focus on online training but also on direct practical exercises.
- 4- Providing the opportunity for academic staff to participate in online courses held by high rank international universities.

### **12. Acceptance Criterion**

**Central general admission of the Ministry of Higher Education and scientific Research, according to the student's grades (average)( Governmental universities)**

**Central private admission based on the average (Governmental universities)**

**Certificate equivalency for one year only (fifth year), based on the number of study units.**

### **13. The most important sources of information about the program**

- 1- Methodological books in specialization, scientific research and sober scientific articles.

2- Decisions of the Committee of Deans of the Faculty of Pharmacy based on the recommendations of specialized scientific committees.

#### 14. Program Development Plan

1- Updating curricula in line with scientific development.

2- Preparing modern teaching methods that keep up with scientific development.

3- Adding modern laboratory equipment to laboratories.

4- Use of modern tools and devices that help the academic staff in presenting their lectures.

5- Urging the academic staff to participate in seminars and courses related to their scientific subjects responsible for.

### 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
<b>First year/ First Semester</b>		Human biology													
		Principles of Pharmacy Practice													
		Analytical Chemistry													
		Medical Terminology													
		Mathematics and Biostatistics													
		Computer Sciences													
		English Language													
		Democracy and Human Rights	Essential												
<b>First year/ Second</b>		Human Anatomy	Essential												
		Pharmaceutical	Essential												



<b>Semester</b>		Calculations																	
		Medical Physics	Essential																
		Organic Chemistry I																	
		Histology																	
		Computer Sciences	Essential																
<b>Second Year / First semester</b>		Organic Chemistry II	Essential																
		Medical Microbiology I	Essential																
		Physical Pharmacy I	Essential																
		Physiology I	Essential																
		Democracy	Essential																
		Computer Sciences	Essential																
		Crimes of Ba'ath Regime in Iraq	Essential																
<b>Second Year / Second semester</b>		Organic Chemistry III	Essential																
		Medical Microbiology II	Essential																
		Physical Pharmacy II	Essential																

		Physiology II	Essential															
		Pharmacognosy I	Essential															
		Computer Sciences	Essential															
		Arabic Language	Essential															
<b>Third stage/ First semester</b>		Inorganic Pharmaceutical Chemistry	Essential															
		Pharmacognosy II	Essential															
		Pharmaceutical Technology I	Essential															
		Biochemistry I	Essential															
		Pathophysiology	Essential															
<b>Third stage / Second semester</b>		Organic Pharm. Chemistry I	Essential															
		Pharmacology I	Essential															
		Pharm. Technology II	Essential															
		Biochemistry II	Essential															
		Pharmacognosy III	Essential															
		Pharmacy Ethics	Essential															

<b>Fourth stage / first semester</b>		Pharmacology II	Essential															
		Organic Pharm. Chemistry II	Essential															
		Clinical Pharmacy I	Essential															
		Biopharmaceutics	Essential															
		Public Health	Essential															
		English Language	Essential															
<b>Fourth stage /second semester</b>		Pharmacology III	Essential															
		Organic Pharm. Chemistry III	Essential															
		Clinical Pharmacy II	Essential															
		General Toxicology	Essential															
		Industrial Pharmacy I	Essential															
		Communication Skills	Essential															
		English Language	Essential															

<b>Fifth stage/ first semester</b>		Organic Pharm. Chemistry IV	Essential															
		Industrial Pharmacy II	Essential															
		Applied Therapeutics- I	Essential															
		Clinical Chemistry	Essential															
		Clinical Laboratory Training	Essential															
		Clinical Toxicology	Essential															
		Graduation project	Essential															
<b>Fifth stage/ second semester</b>		Pharmacoeconomic	Essential															
		Applied Therapeutics- II	Essential															
		Therapeutic Drug Monitoring (TDM)	Essential															
		Advanced Pharmaceutical Analysis	Essential															
		Hospital Training	Essential															
		Dosage Form Design	Essential															

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

## Course Description Form

<b>1. Course Name:</b>					
<b>2. Course Code:</b>					
<b>3. Semester / Year:</b>					
<b>4. Description Preparation Date:</b>					
<b>5. Available Attendance Forms:</b>					
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>					
<b>7. Course administrator's name (mention all, if more than one name)</b>					
Name:					
Email:					
<b>8. Course Objectives</b>					
<b>Course Objectives</b>		<ul style="list-style-type: none"> <li>• .....</li> <li>• .....</li> <li>• .....</li> </ul>			
<b>9. Teaching and Learning Strategies</b>					
<b>Strategy</b>					
<b>10. Course Structure</b>					
<b>Week</b>	<b>Hours</b>	<b>Required Learning Outcomes</b>	<b>Unit or subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
<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					

## 12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	