

**Ministry of Higher Education and Scientific  
Research  
Al-Kitab University  
College of Pharmacy  
Academic program description**



# **Academic Program and Course**

**2024**

## The introduction

The educational program is considered as a coordinated and organized package of academic courses that includes procedures and experiences organized in the form of academic vocabulary, the main purpose of which is to build and refine the skills of graduates, making them qualified to meet the requirements of the labor market. It is reviewed and evaluated annually through internal or external audit procedures and programs such as the external examiner program.

The description of the academic program provides a brief summary of the main features of the program and its courses, indicating the skills that students are working to acquire based on the objectives of the academic program. The importance of this description is evident because it represents the cornerstone of obtaining program accreditation, and the teaching staff participates in writing it under the supervision of the scientific committees in the scientific departments.

This guide, in its second edition, includes a description of the academic program after updating the vocabulary and paragraphs of the previous guide in light of the latest developments in the educational system in Iraq, which included a description of the academic program in its traditional form (annual, quarterly), in addition to adopting the description of the academic program circulated according to the book of the Department of Studies, T.M.3 on 5/3/2023 regarding programs that adopt the Bologna 2006 .3/ Process as a basis for their work.

In this area, we can only emphasize the importance of writing descriptions of academic programs and courses to ensure the .smooth conduct of the educational process

## Concepts and terminology

**Description of the academic program:** The description of the academic program provides a concise summary of its vision, mission, and goals, including an accurate description of the targeted learning outcomes according to specific learning strategies

**Course description:** Provides a necessary summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve, demonstrating whether he or she has 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 a developed, inspiring, motivating, realistic and applicable program

explains the objectives and activities necessary

**Program message:** It briefly to achieve them, and also identifies the program's development paths and directions

**Program objectives:** These 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/study subjects included in the academic program according to the approved learning system (semester, annual, Bologna track), whether it is a requirement (ministry, university, college, or scientific department), along with the number of study units that

**Learning outcomes:** A consistent set of knowledge, skills, and values the student has acquired after the successful completion of the academic program. The learning outcomes for each course must be determined in a way that achieves the program objectives

**Learning strategies:** They are the strategies used by a faculty member and they are plans that are , and learning to develop student teaching

followed to reach learning goals. That is, it describes all classroom activities and extracurricular to achieve the learning outcomes of the programme

**Form of Academic program  
description**

**University name: Al-Kitab University**

**College /Institute: College of Pharmacy**

**Name of the academic or professional program: Bachelor of  
Pharmacy**

**Name of final degree: Bachelor of Pharmacy**



**Dr Omeed Omar Darweesh, PhD**

**Lecturer**

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**Division of Quality Assurance and University Performance Name of the  
Director of the Quality Assurance and University:  
Performance Division**



**Assistant Prof. Showan Dawood Husin**

## 1. Program vision

In Al- Kitab Pharmacy, we strive to provide optimal and best education in order to graduate competent pharmacists capable of providing appropriate health care to improve the health condition in government medical institutions and private medical institutions in Iraq and abroad.

We look forward to being among the pioneers at the local and global levels in the field of developing pharmaceutical education and scientific research, and seeking a bright future in enhancing medical and humanitarian services.

## 2. Program message

The College of Pharmacy at Al-Kitab University is an educational institution whose goal is to improve human health by graduating qualified pharmacists who are able to be leaders in any environment as pharmacists and pharmacy scientists. The college provides a high-quality curriculum that develops thinking in critical times and problem solving.

The goal of our college is to provide the best pharmaceutical information and the latest educational methods and train pharmacists to participate effectively in providing health services to the community.

## 3. Program Goals

The Faculty of Pharmacy at Al-Kitab University aims to train students to be leaders in any environment as pharmacists and pharmaceutical scientists. The college provides a high-quality curriculum that develops thinking in critical times, problem solving, and effective leadership skills. The main meaning of our college's mission is pharmaceutical and social research and clinical, as well as transferring the outputs of this research to the health care service. The Faculty of Pharmacy program at our university also aims to

1. Providing the highest levels of knowledge, skills, and encouragement to students .the College of Pharmacy using the latest educational methods
2. Providing the basics of pharmacy and pharmaceutical information to students through academic courses
3. Demonstrate knowledge of medications focusing on correcting their prescription. How it works , ways to take it, doses, and side effects
4. Preparing a generation of qualified pharmacists They are qualified to work in government health institutions , private health institutions, community pharmacies, pharmaceutical laboratories, and pharmaceutical factories. In

addition to companies that market medicines.

5. Encouraging and developing the role of the pharmacist to be a vital and effective part of the health care team
6. We seek to improve the quality of education, scientific research, and pharmaceutical practice to achieve the best standards
7. We seek to make the College of Pharmacy at Al-Kitab University distinguished among local and international colleges.
8. Effective contribution to spreading health awareness and culture in society
9. Providing a suitable training environment for students by the difficulties and obstacles facing students and also overcoming by forming committees to follow up on students' training to ensure that they obtain the correct information and evaluate their dealings with patients
10. Conducting scientific research in various pharmaceutical sciences to graduate students
11. Holding conferences, seminars, and discussion panels, and working to link university education to reality and application to meet the needs of society and plans for development and development in the country

#### 4. Program accreditation

The program does not have program accreditation

#### 5. Other external influences

There is no body supporting the program

#### 6. Program structure

* comments	percentage	Study unit	Number of courses	Program structure
Basic	12%	18	5	Enterprise requirements
Basic	% 88	130	64	College requirements
Yes, there are summer training / third stage and fourth stage				summer training
				Other

Notes may include whether the course is core or elective \*

<b>7. Program description</b>				
<b>Credit hours</b>		<b>Name of the course or course</b>	<b>Course or course code</b>	<b>Year/level</b>
<b>Practical</b>	<b>theoretical</b>			
<b>18</b>	<b>24</b>	<b>Analytical chemistry</b>	<b>111</b>	<b>First year/ first semester</b>
		<b>Computer Science</b>	<b>112</b>	
		<b>Life science</b>	<b>113</b>	
		<b>Mathematics and biostatistics</b>	<b>114</b>	
		<b>medical terminology</b>	<b>115</b>	
		<b>Principles of pharmacy practice</b>	<b>116</b>	
		<b>English</b>		
		<b>Anatomy</b>	<b>127</b>	<b>First year/ second semester</b>
		<b>Histology</b>	<b>128</b>	
		<b>human rights</b>	<b>129</b>	
		<b>Medical physics</b>	<b>1210</b>	
		<b>Medicinal Chemistry 1</b>	<b>1211</b>	
		<b>Pharmaceutical accounts</b>	<b>1212</b>	
		<b>Computer Science 2</b>		
<b>22</b>	<b>31</b>	<b>Democracy</b>	<b>211</b>	<b>Second year/ first semester</b>
		<b>Microbiology 1</b>	<b>212</b>	
		<b>Organic Chemistry 2</b>	<b>213</b>	
		<b>Physical pharmacy 1</b>	<b>214</b>	
		<b>Faslja 1</b>	<b>215</b>	
		<b>Computer Science 3</b>		
		<b>Microbiology 2</b>	<b>227</b>	<b>Second year/ semester second</b>
		<b>Organic chemistry 3</b>	<b>228</b>	
		<b>Pharmacology 1</b>	<b>229</b>	
		<b>Physical pharmacy 2</b>	<b>2210</b>	
		<b>Faslja 2</b>	<b>2211</b>	
		<b>Arabic</b>		
		<b>Computer Science 4</b>		
<b>18</b>	<b>31</b>	<b>Biochemistry 1</b>	<b>311</b>	
		<b>Organic pharmaceutical chemistry</b>	<b>312</b>	



		History of diseases	313	Third year/ first semester	
		Pharmaceuticals 1	314		
		Pharmacology 2	315		
		Biochemistry 2	326		
		Pharmacy ethics	327		
		Third year/ semester second		Pharmaceutical organic chemistry 1	328
				Pharmaceuticals 2	329
				Pharmacology 3	3210
				Pharmaceuticals 1	3211
16	28	Biopharmaceuticals	411	Fourth year/ first semester	
		Clinical pharmacy	412		
		Organic pharmaceutical chemistry 2	413		
		Pharmaceuticals 2	414		
		Public Health	415		
		Fourth year/ semester second		Clinical pharmacy 2	426
				General toxicology	427
				Industrial pharmacy 1	428
				Organic pharmaceutical chemistry 3	429
				Pharmaceuticals 3	4210
				communication skills	4211
				English	
18	26	Applied therapeutics 1	511	Fifth year/ first semester	
		Clinical chemistry	512		
		Clinical training	513		
		Clinical toxicology	514		
		Industrial pharmacy 2	515		
		Organic pharmaceutical chemistry 4	516		
		Graduation Project	517		
		Fifth year/ second semester		Advanced pharmaceutical analysis	528
				Applied therapeutics 2	529
				Drug dosage design	5210
				Hospital training	5211
				Pharmaceutical economics	5212
				Monitoring therapeutic medications	5213
				Pharmaceutical biotechnology	5214

### 8. Expected learning outcomes of the programme

#### Knowledge

1. Qualifying the student to practice the teaching profession and assume .responsibility for education

1. Knowledge, numbers of competent cadres capable of diagnosing and prescribing appropriate

<ol style="list-style-type: none"> <li>2. Enabling the student to keep up with the .methods of teaching pharmacy</li> <li>3. Providing the student with the special skills needed in dialogues and .discussions</li> <li>4. Enabling the student to prepare an analysis and evaluation of patients' conditions and the extent to which they benefit from the medications prescribed .to them</li> </ol>	<p>medications to treat medical . conditions In the health sector</p> <ol style="list-style-type: none"> <li>2. Comprehension: Enabling the student to understand physiological diseases and the causes of their occurrence, thus identifying ways to treat them and thus being able to prepare qualified cadres for service .in the government sector</li> <li>3. Application: enabling the student to translate scientific theoretical .concepts into practical procedures</li> <li>4. Analysis: enabling the student to prepare an analysis and evaluation of patients' conditions and the extent to which they benefit from prescribed medications</li> </ol>
<b>Skills</b>	
<p>Statement of learning outcomes 2</p> <ol style="list-style-type: none"> <li>1. Enabling the student to write scientific .research</li> <li>2. Enabling the student to teach scientific .subjects</li> </ol>	<p>Subject-specific skills</p> <p>Appropriate and sufficient qualification - B1 to bear the responsibility and burdens of the profession as pharmacists, whether in government sectors, pharmacies, .teachers, or researchers</p> <p>B2 - Practice enables the student to apply the acquired science and pharmaceutical skills he learned during his studies .Within jurisdiction</p> <p>Mastery, development and - B3 . advancement of skills and abilities</p> <p>B4 - Creativity: The student's ability to provide medical services and advice to other colleagues from the medical staff .and patients</p>
<p>Statement of learning outcomes 3</p> <p>Enables the student to understand the basics of .pharmacy</p>	<p>Learning outcomes 3</p> <p>Enabling the student to conduct scientific discussions and dialogues within his .specialty</p>
<b>Value</b>	
<p>Statement of learning outcomes 4</p> <p>Raising the student to love the profession of pharmacy and be creative in it</p>	<p>Learning outcomes 4</p> <p>Providing the student with the principles and concepts that</p>

	Used in the pharmacy (Honesty, loyalty, justice, caution, and keeping patients' secrets)
Statement of learning outcomes 5 Learn about pharmacy and pharmaceutical sciences	Learning outcomes 5 Providing the student with the skills and mastery of pharmacy and pharmaceutical sciences

### 9. Teaching and learning strategies

Lectures, scientific laboratories, homework, class assignments, free discussions, Visual projector and electronic whiteboard, workshops, summer training, student seminars, scientific exhibitions and research conferences

### 10. Evaluation methods

Daily assessment, mid-term exams, practical assessment, final exam, presentations, daily attendance, weekly reports

<b>11.</b>					
<b>Faculty members</b>					
Preparing the teaching staff		Special requirements/ skills (if any)	Specialization		Scientific rank
lecturer	staff		private	general	
	staff		Drug and design pharmaceutical chemistry	the pharmacy	M. M. Qutaiba Salah Jassim

	<b>staff</b>		Pharmaceutical Technology	the pharmacy	Reem Ahmed .M .M Hussein
	<b>staff</b>		Clinical Pharmacy	the pharmacy	M. Azad Nouri Abdullah
	<b>staff</b>		Clinical Pharmacy	the pharmacy	M. M. Zaid Nabil AbdelQader
	<b>staff</b>		Clinical biochemistry	the pharmacy	Mr. Dr. Shatha RaoufMustafa
	<b>staff</b>		Medical physics	Physics	M. Qasim Ahmed Ali
	<b>staff</b>		Pharmacology	the pharmacy	M. M. Muhammad Abdel Wahab Hassan
	<b>staff</b>		Analytical chemistry	Chemistry Science	M.M. Sary Akram AhmedSalman
	<b>staff</b>		Medicinal chemistry	Microbiology	M.M. Sarah Asaad AbdelKarim

	<b>staff</b>		Clinical biochemistry	Pharmacy	M. M. Zulfiqar Abdullah Muhammad Khadr
	<b>staff</b>		Electrolysis	chemistry	Prof. Dr. Fathi Ahmed Obaid Muhammad
	<b>staff</b>		Pharmaceuticals	Pharmacy	M.M. Ibrahim Muhammad Tayyab Abdel Baqi
	<b>staff</b>		Clinical pharmacology	Pharmacy	M.D. Barif Zahir Rashid Yahya
	<b>staff</b>		Pharmaceuticals	Pharmacy	M. M. Mustafa Muhammad Nouri Ismail
	<b>staff</b>		Drugs and medicinal plants	Pharmacy	M.M. Abdul Aziz Ali Khalif Mughir
	<b>staff</b>		Pharmaceutical chemistry	Pharmacy	Eng. Omid Omar Darwish Rasoul
	<b>staff</b>		Clinical biochemistry	Pharmacy	M.M. Ahmed Tariq Jihad Abdullah
	<b>staff</b>		Industrial pharmacy	Pharmacy	Prof. Dr. Yasser Abdel Aleem Hassan

	staff		Pediatrics	General medicine and surgery	Dr. Warqa Naseer Saadoun Mostaqi
	staff		Polymer chemistry	Chemistry Science	A.M.D. Hani Khalil Ismail
	staff		Doctorate in brain physiology	Doctor	Dr. Honor Ahmed Abdel Rahman
	staff		Toxicology	Pharmacy	Mother. Dr . Ansam Naji Abboud
	staff		Pharmaceutical chemistry	Chemistry Science	Ahmed Hasan's mom Hassan
	staff		Information Technology Management	Computer Science	M. M. Yahya Qusay Yahya
	staff		Pharmacology	Pharmacy	M.M. Osama Abdullah Hassan
	staff		Clinical pharmacy	Pharmacy	M. M. Rozkar Faisal Ahmed

	staff		Pharmacology	Pharmacy	M. M. Elham Hassan Karim
	staff		Pharmacology	Pharmacy	M. M. Mateen Adel Mahmoud
	staff		Industrial Pharmacy	Pharmacy	M. M. Zain Al-Abidin Ghanem Ahmed
	staff		Clinical pharmacy	Pharmacy	M.M. Aram Sardar Ibrahim
	staff		Pharmaceutical chemistry	Pharmacy	M. M. Moeen Muhammad Mustafa
	staff		Pharmaceuticals	Pharmacy	M.M. Ahmed Fouad Zidan
	staff		Pharmaceuticals	Pharmacy	M.M. Fatima Qais Muhammad Ali
	staff		Genetics	Biology	Dr.. Pashtwan Saeed Amin
	staff		Pharmaceuticals	Pharmacy	M. M. Roya Ali Haider
	staff		Medical biology	Biology sciences	M.M. Dalia Dilshad Abdullah
	staff		organic chemistry	chemistry	M. M. Ahmed Tahseen Bakr
	staff		Pharmaceutical chemistry	Pharmacy	M. M. Ali Khader Ahmed
	staff		Biochemistry	chemistry	M.M. Lubna Suleiman Muhammad
	staff		Pharmaceutical sciences	Pharmacy	M. M. Muhammad Zahir Abdel Razzaq
	staff		Pharmacology	Pharmacy	M.M. I am Abdul Hamid Saeed
	staff		organic chemistry	Chemistry Science	M. Vian Johar Fares

	staff		Pharmaceuticals	Pharmacy	M.M. Karam AbdullahDarwish
lectu rer			Biochemistry	chemistry	Prof. Dr. MuhammadTalaat Abbas
lectu rer			Pharmaceutical chemistry	Pharmacy	Prof. Dana MuhammadHamad Amin
lectu rer			Immunity	Sciences	M.D. Zeina Abdel Moneim Abdel Razzaq
lectu rer			Pharmaceuticals	Pharmacy	M.M. Taha Abdel QaderBashir
lectu rer			Pharmaceutical biotechnology	Pharmacy	M.M. Oral MuhammadBakr

lecturer			organic chemistry	chemistry	M. M. Ali Iyad Mohsen
lecturer			pharmacology	Pharmacy	M. M. Shathal Khalaf Numan

### **Professional development**

#### **Orienting new faculty members**

Professional development for new professors takes place through training them and holding workshops to develop their educational skills and update their academic knowledge and teaching methods in the field of pharmacy. Which provides high skills ..for teaching and learning in the specialty

#### **Professional development for faculty members**

Professional development for faculty members is considered important to enhance their competence and improve their performance in the field of teaching. Faculty can develop their skills by attending workshops and training courses, and participating in educational seminars and conferences. They can also exchange knowledge and experiences with colleagues in the field, and use technology to improve the teaching process. This helps them innovate and improve



## 12. Acceptance standard

The student who is accepted into Iraqi universities and institutes is required to be

.Iraqi nationality -1

Possession of an Iraqi secondary school certificate, supported by -2 certification from the General Directorate of Education in the governorate, .or an equivalent certificate

.The student must be born in 1995 onwards-3

Successful in the medical examination according to the conditions for .4 each study. The blind student who meets the conditions for applying for appropriate humanitarian studies shall be submitted through central .admission

If he is devoted to study, it is not permissible to combine work and -5 study (at the same time) in colleges and morning institutes. This includes employees of all government institutions. In order for them to continue studying, it is required that they obtain a study leave from their departments starting in accordance with the instructions in force . It is not permissible to combine two studies either and in If it is proven otherwise, he writes to the Ministry to cancel his acceptance (the student employee can postpone his studies according to the instructions in order to fulfill the condition of completing two years of satisfactory service to be entitled to obtain study leave in accordance with the instructions for granting study (leave

-.Among my graduates -.6

.A- Academic year )2019-2020(

B- The previous academic year of those who are not centrally accepted into any college or institute, and they are accepted according to the minimum limits for the year of their graduation. In the event that the student is confirmed to have been accepted into any college or institute, he will be returned to his original acceptance and it will be considered a .year of failure for him

Of the (top) students who graduate from the institutes, 10% of them -7 are accepted into the colleges corresponding to their majors, and central .admission is implemented by nominating those included

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

Iraqi government universities, instructions of the Ministry of Higher Education and Scientific Research, twin universities, relevant .international universities

#### 14. Program development plan

Analyze the current situation by evaluating the current curriculum and analyzing its strengths and weaknesses. Search for opportunities for improvement and identify areas that need development

Setting goals: Setting the main goals for developing the academic curriculum is considered one of the most important steps in developing any program, as the goals can include increasing educational quality, improving the student experience, and enhancing academic development

and personal development. Continuous evaluation and review by conducting periodic evaluation and review of the curriculum and teaching methods and communicating with students and professors to collect feedback and comments. Use this feedback to improve and enhance your academic curriculum









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