

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



Academic Program and Course Description Guide

2025 – 2024

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

Final certificate name: Bachelor of Pharmacy

Academic system: Semester

Decrepitation preparation date:1-10-2024

File completion date:1-10-2024



Signature:

Scientific Associate Name: Dr Nasir Ibrahim Khatab

Date :1-10-2024



Signature: -

Scientific Associate name: Dr Omeed Omar Darweesh

Date:1-10-2024

The file checked by: -

Department of Quality Assurance and University Performance

Name of the Director of the Quality Assurance and University:

Date:

Signature:



Approved by the Dean

ا.م.د شوان داود حسين

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

4. Program accreditation

The program does not have program accreditation

5. Other external influences

Practice sites- Office research - extracurricular activities - volunteer activities - other

6. Program structure

Program structure	Number of courses	Study unit	percentage	
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Institution requirements	8	10	5.5 %	Basic
College requirements	55	169	94.4%	Basic
Satisfied				summer training
/	/	/	/	Other

Program description

Credit hours		Name of the course or course	Course or course code	Year/level
Practical	theoretical			
18	24	Analytical chemistry	111	First year/ first semester
		Life science	113	
		Mathematics and biostatistics	114	
		medical terminology	115	
		Principles of pharmacy practice	116	
		English		
		Anatomy	127	First year/ second semester
		Histology	128	
		human rights	129	
		Medical physics	1210	
		Medicinal Chemistry 1	1211	
		Pharmaceutical accounts	1212	
		Computer Science 1		
22	31	Democracy	211	Second year/ first semester
		Microbiology 1	212	
		Organic Chemistry 2	213	
		Physical pharmacy 1	214	
		Physiology 1	215	
		Computer Science 2		
		Microbiology 2	227	

		Organic chemistry 3	228	Second year/ second semester
		Pharmacology 1	229	
		Physical pharmacy 2	2210	
		Physiology 2	2211	
		Computer Science 3		
18	31	Biochemistry 1	311	
		Organic pharmaceutical chemistry	312	
		History of diseases	313	Third year/ first semester
		Pharmaceuticals 1	314	
		Pharmacology 2	315	
		Biochemistry 2	326	
		Pharmacy ethics	327	Third year/ second semester
		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	
		Clinical pharmacy 2	426	Fourth year/ second semester
		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	
		Advanced pharmaceutical analysis	528	Fifth year/ second semester
		Applied therapeutics 2	529	
		Drug dosage design	5210	
		Hospital training	5211	
		Pharmaceutical economics	5212	
		Monitoring therapeutic medications	5213	
		Pharmaceutical biotechnology	5214	

7.Expected learning outcomes of the programmer

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 medications to treat medical . conditions In the health sector
2. Enabling the student to keep up with the methods of teaching pharmacy	2. Comprehension: Enabling the student to understand physiologicaldiseases and the causes of their occurrence, thus identifying ways to treat them and thus being able toprepare qualified cadres for service .in the government sector
3. Providing the student with the special skills needed in dialogues and discussions	3. Application: enabling the student to translate scientific theoretical concepts into practical procedures
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	4. Analysis: enabling the student to prepare an analysis and evaluationof patients' conditions and the extent to which they benefit from prescribed medications

Skills

Statement of learning outcomes	Subject-specific skills
1. Enabling the student to write scientific research	Appropriate and sufficient qualification -
2. Enabling the student to teach scientific Subjects	1.to bear the responsibility and burdens of the profession as pharmacists, whether in government sectors, pharmacies, teachers, or researchers
3. Enables the student to understand the of basic of pharmacy	2. Practice enables the student to applythe acquired science and pharmaceutical skills he learned during his studies
4. Enabling the student to conduct scientific discussions and dialogues within his	Within jurisdiction
	3.Mastery, development and advancement of skills and abilities
	4. Creativity: The student's ability to provide medical services and advice to other colleagues from the medical staff and patients

Ethics	
1. Dealing with patients with the ethics of the pharmacy profession	The pharmacist maintains the privacy of the patient and makes the security and safety of the patient and the community the first
2. Teamwork with other colleagues within the health care team in the work environment	The pharmacy student and the pharmacist deal with his classmates and colleagues in a team spirit goal of the pharmacy profession
8. Teaching and learning strategies	
● Presentations ● Interactive discussions ● Brainstorming ● Small groups ● Research ● Flipped classroom s ● Panel discussions ● Field visits to institutions and entities associated with the work of the pharmacist ● Voluntary work, seminars, workshops and exhibition	
9. Evaluation methods	
● Individual and group assignments and reports ● Daily and weekly exams ● Assessment of practical skills ● Mid-term and final exams ● Graduation projects	

10. Faculty members					
Academic Rank	Specialization		Special Requirements/Skills (if applicable)	Number of the teaching staff	
	General	Special		Staff	Lecturer
Professor	1	2		3	0
Assistant Professor	6	6		11	1
Lecturer	4	15		16	3
Assistant Lecturer	5	26		29	2

Professional development
Orienting new faculty members
• Teaching methods course • Teaching validity course
Professional development for faculty members
Workshops, seminars and courses in: • The methods and strategies of pharmaceutical education • The basis for assessments and exam design • Interactive education strategies • Foundations and methods for updating and developing the curriculum
11.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 certification from the General Directorate of Education in the governorate, or an equivalent certificate the student must be born in 1995 onwards 2-High school GPA and physical health as approved by the Ministry of higher Education and Scientific Research
12.The most important sources of information about the program
• The College of Pharmacy, University of Al-kitab website, in Arabic and English • University of Al-kitab website • Website of the Ministry of higher Education and Scientific Research • University of Al-kitab College of Pharmacy page on social networking sites • The announcement boards and signs installed in the halls of the college • Official documentation
13.Program development plan
• Incorporate Active Learning Strategies • Expand the use of technology in education • Foster Research and Inquiry • Develop Practical Skills • Encourage Interdisciplinary Collaboration • Professional Development for Faculty • Further Student-Centered Approach

Curriculum Skills Map

Required program Learning outcomes

Year / Level	Course Code	Course Title	Basic or optional	Knowledge				skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
First year/first semester	Phpchl 8-111	Analytical Chemistry	Basic	√	√	√	√	√	√	√	√				
	Phpchl	Human Biology	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	Phpchl	Mathematics and Biostatistics	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	Phpchl	Medical Terminology	Basic	√	√	√	√								
	Phpchl	Principle of pharmacy practice	Basic	√	√	√	√					√	√	√	√
First year/second semester	Phpchl	Human Anatomy	Basic	√	√	√	√								
	Phpchl	Human Histology	Basic	√	√	√	√								
	Phpchl	Human Rights	Basic	√	√	√	√								
	Phpchl	Medical physics	Basic	√	√	√	√	√	√	√	√				
	Phpchl	Organic Chemistry I	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	Phpchl	Pharmaceutical Calculations	Basic	√	√	√	√	√	√	√	√	√	√	√	√
		Computer Sciences I	Basic	√	√	√	√	√	√	√	√	√	√	√	√
Second year/first semester	Phpchl	Medical microbiology I	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	Phpchl	Organic Chemistry II	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	Phpchl	Physical Pharmacy I	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	Phpchl	Physiology I	Basic	√	√	√	√	√	√	√	√	√	√	√	√
		Computer Sciences II	Basic	√	√	√	√	√	√	√	√	√	√	√	√
Second year/second semester	Phpchl	Medical Microbiology II	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	Phpchl	Organic Chemistry II	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	Phpchl	Physical pharmacy II	Basic	√	√	√	√	√	√	√					
	Phpchl	Pharmacognosy I	Basic	√	√	√	√	√	√	√					

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