Ministry of Higher Education and Scientific Research
Scientific Supervision and Scientific
Evaluation Apparatus
Directorate of Quality Assurance and Academic
Accreditation
Accreditation Department

Al-huda University College

Academic Description

Pharmacy Program

2026 – 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: Al-Huda University College
- Academic Department: Department of Pharmacy
- Academic or Professional Program Name: Bachelor of Pharmacy
- Final Degree Name: Bachelor of Pharmacy
- Study System: Course-based
- Date of Program Description Preparation: 25/07/2025
- Date of File Completion: 26/07/2025

Head of Department:
Prof. Ismail Taha Ibrahim
Date: 2025/ 7/ 26

Scientific Assistant:
Prof. Nadhim Abdullah Abd
Date: 2025/ 7/ 26

Reviewed by:
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Name of QA Manager: MSc. Mushtaq Mohammed Abdulnabi
Date: 2025/07/26

Signature:

Prof. Dr.Omar K.Mohammed Jasim

Dean
2025/ 7/ 26

1. Program Vision

The vision of the Pharmacy Department at Al-Huda University College is based on scientific principles and advanced tools in fundamental pharmaceutical sciences, encompassing teaching, research, services, training, and consultancy. The department emphasizes cooperation with the community and plays an active role in providing scientific consultations in the pharmaceutical industry and participating in healthcare with the medical team.

2. Program Mission

To provide distinguished pharmaceutical education through accredited academic programs that prepare highly qualified pharmacists capable of improving community healthcare, competing nationally and globally, upholding the ethics of the pharmacy profession, instilling the value of continuous self-learning, and conducting advanced scientific research to develop the pharmaceutical industry and meet societal health needs.

- Maintain follow-up with graduates and keep them updated through seminars and workshops.
- Emphasize continuing pharmaceutical education.
- Strengthen ongoing health collaboration between college graduates and the community to enhance their role in the national healthcare system.
- Provide scientific and advisory expertise in the pharmaceutical industries.

3. Program Objectives

- Prepare pharmacists with strong values and professional ethics through academic and professional programs aligned with labor market needs, using

modern teaching and learning strategies and technologies.
- Enhance graduates' competitive capabilities in the pharmaceutical field.
- Promote community engagement and environmental development by collaborating with health institutions and pharmaceutical industries.
- Implement development programs to enhance faculty members' personal, academic, teaching, and research skills.
- Foster cooperation with local and international pharmacy colleges and research centers to exchange expertise in pharmaceutical and research fields.
- Improve quality management systems and institutional excellence and strengthen the scientific research infrastructure.

4. Program Accreditation

None

5. Other external influences

Ministry of Higher Education and Scientific Research

6. Program structure

Notes	Percentage	Study unit	Number of courses	Program structure
	–	–	–	Institutional Requirements
	Support		4	College Requirements

	Core Course		55	Department Requirements
The third level includes training in private pharmacies, and the fourth level includes training in hospitals.			present	Summer Training

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

7. Program Description

Credit hours		Course name	Course code	Year/level
2	theoretical	Human biology		First year
2	practical			
2	theoretical	Principle of pharmacy practice		
–	practical			
3	theoretical	Analytical chemistry		
2	practical			
1	theoretical	Medical terminology		
–	practical			
3	theoretical	Mathematics and Biostatistics		
–	practical			
2	theoretical	Democracy and human rights		
–	practical			

1	theoretical	Anatomy		
2	practical			
2	theoretical	Pharmaceuticalcalcula tion		
2	practical			
2	theoretical	Medicalphysics		
2	practical			
3	theoretical	Organic chemistry–1		
2	practical			
2	theoretical	histology		
2	practical			
1	theoretical	Computer		
2	practical			
Credit hours		**Course name**	**Course code**	**Year/level**
3	theoretical	Organic chemistry–2		Second year
2	practical			
3	theoretical	Microbiology–1		
2	practical			
3	theoretical	Physical pharmacy–1		
2	practical			

3	theoretical	Physiology-1		
2	practical			
1	theoretical	computer		
2	Practical			
2	theoretical	Baath regime crimes in Iraq		
–	practical			
2	theoretical	Organic chemistry-3		
2	practical			
3	theoretical	Microbiology-2		
2	practical			
3	theoretical	Physical pharmacy-2		
2	practical			
3	theoretical	Physiology-2		
2	practical			
3	theoretical	Pharmacognosy-1		
2	practical			
Credit hours		**Course name**	**Course code**	**Year/level**

2	theoretical	Inorganic pharmaceutical chemistry		Third year
2	practical			
2	theoretical	Pharmacognosy-2		
2	practical			
3	theoretical	Pharmaceutical technology-1		
2	practical			
3	theoretical	Biochemistry-1		
2	practical			
3	theoretical	pathophysiology		
2	practical			
3	theoretical	Pharmaceuticalchemistry-1		
2	practical			
3	theoretical	Pharmacology-1		
-	practical			
3	theoretical	Pharmaceutical technology-2		
2	practical			
3	theoretical	Biochemistry-2		
2	practical			
2	theoretical	Pharmacognosy-3		
2	practical			

1	theoretical	Ethics		
–				
Credit hours		**Course name**	**Course code**	**Year/level**
3	theoretical	Pharmacology–2		Fourth year
2	practical			
3	theoretical	Pharmaceutical chemistry–2		
2	practical			
2	theoretical	Clinical pharmacy–1		
2	practical			
2	theoretical	Biopharmaceutics		
2	practical			
2	theoretical	Public Health		
–	practical			
2	theoretical	Pharmacology III		
–	practical			
3	theoretical	Organic Pharm. Chemistry III		
2	practical			
2	theoretical	Clinical Pharmacy II		
2	practical			

2	theoretical	General Toxicology		
2	practical			
3	theoretical	Industrial Pharmacy I		
2	practical			
2	theoretical	Communication Skills		
–	practical			
Credit hours		**Course name**	**Course code**	**Year/level**
2	theoretical	Organic Pharm. Chemistry IV		Fifth year
–	practical			
3	theoretical	Industrial Pharmacy II		
2	practical			
3	theoretical	Applied Therapeutics–I		
–	practical			
3	theoretical	Clinical Chemistry		
2	practical			
–	theoretical	Clinical Laboratory Training		
4	practical			
2	theoretical	Clinical Toxicology		
2	practical			

1	theoretical	Graduation project		
–	practical			
2	theoretical	Pharmacoeconomic		
–	practical			
2	theoretical	Applied Therapeutics–II		
–	practical			
2	theoretical	Therapeutic Drug Monitoring (TDM)		
2	practical			
2	theoretical	Advanced Pharmaceutical Analysis		
–	practical			
–	theoretical	Hospital Training		
4	practical			
2	theoretical	Dosage Form Design		
–	practical			
1	theoretical	Pharmaceutical Biotechnology		
–	practical			

8. Expected learning outcomes of the program	
Knowledge	
A1 – Fundamentals of Pharmacy:	Understand the principles of biochemistry, organic chemistry, pharmaceutical chemistry, pharmacology, toxicology, pharmacognosy, microbiology, and pathology.
A2–Drugs	Knowledge of drug types, mechanisms of action, effects on the body, chemical composition, drug interactions, and potential side effects.
A3–Drug Manufacturing and Preparation	Understand methods for manufacturing drugs, formulation, quality assessment, and development
A4 – Clinical Pharmacy	Understand the pharmacist's role in healthcare, patient assessment, pharmaceutical counseling, and treatment follow–up.
A5 – Laws and Regulations:	Knowledge of laws and regulations governing pharmaceuticals and the profession.
Skills	
B1 – Research and Development:	Ability to conduct pharmaceutical research, design experiments, and analyze data.
B2 – Communication:	Ability to effectively communicate with patients, doctors, other pharmacists, and relevant authorities.
B3 – Problem Solving:	Ability to identify and solve drug–related problems with

	innovative solutions.
B4 - Critical Thinking:	Ability to assess pharmaceutical information and make evidence-based decisions.
B5 - Analytical Skills:	Ability to analyze pharmaceutical data and apply biostatistics.
B6 - Drug Formulation Skills:	Ability to prepare and formulate drugs according to standards.
Ethics	
C1 - Professional Ethics	Commitment to values and ethics of the profession, offering patient care with honesty and integrity.
C2 - Responsibility:	Taking accountability for actions and decisions in professional practice.
C3 - Professionalism	Interacting with patients and colleagues respectfully and professionally.

9-Teaching and Learning Strategies
- Active Learning: Encourages student participation through discussions, problem-solving, and hands-on activities rather than passive lectures. - Problem-Based Learning: Focuses on training students to analyze pharmaceutical problems and develop solutions, enhancing critical thinking and decision-making.

- Collaborative Learning: Promotes teamwork through group projects and assignments to build communication and cooperation skills.
- Modern Technology Integration: Use of simulation software, online educational platforms, and tablets to provide interactive learning experiences.
- Practical Training: Includes community and hospital pharmacy placements, as well as laboratory practice, to apply skills in real-world settings.

10-Evaluation methods

- Weekly and monthly exams, midterm exams, and final year exams.
- Final practical exams: Assess the students' abilities to perform various pharmaceutical procedures.
- Oral performance evaluation: Includes discussion and presentation of research theses.
- Academic competency assessment: Evaluation of submitted research projects based on academic standards.
- Projects and reports: Assess students' research, analysis, and report writing related to pharmaceutical topics.

11-Faculty Members		Skills / Requirements	Specialization		Academic Rank
lecturer	permenant		Specialization	General	
	√	Radiopharmaceutical applications in therapy/diagnosis	pharmacology	pharmacy	Prof. Ismail Taha Al-Bayan
	√		Inorganic chemistry	science	Prof. Abdelilah Thabet

					Mohammed
	√	Synthetic and medicinal organic chemistry in the area of heterocyclic compounds as applied to the preparation of biologically-active molecules. Using drug design programs like molecular operating environment (MOE) for docking, pharmacophore modelling, and similarity search	Pharmaceutical Chemistry	pharmacy	Dr. Maged Ahmed Elsawy (Lecturer)
	√	Extracting active ingredients from plants and working on modern separation devices	pharmacognosy	pharmacy	Dr. Mohamed Farag Abdelhalim (Lecturer)

	√		pharmaceutics	pharmacy	Dr. Sari Abd Hazaa (Lecturer)
√			Organic chemistry	science	Dr. Qutaiba Fadel Nafea (Lecturer)
√			Microbiology	Veterinary Medicine	Dr. Ali Sami Thiyab (Lecturer)
√					Emad Abdullah Mansi (Lecturer)
	√		pharmaceutics	pharmacy	Sawsan Muneem Aftan (Assistant Lecturer)
			pharmacology	pharmacy	Mohamed Muneem Aftan (Assistant Lecturer)
			microbiology	science	Ghaith Mohammed Ahmed (Assistant

					Lecturer)
			biochemistry	science	Mohammed Dhafi Aref (Assistant Lecturer)
			microbiology	science	Safa Nadeem Abdulqahar (Assistant Lecturer)
	√		Computer Science	Computer Science	Mamoun Salam Faleh (Assistant Lecturer)
			Medicine – General Practitioner	Medicine	Laith Adhoub Hamed (Bachelor's Degree)

Professional Development

Mentoring new faculty members

– Academic Orientation: Includes college and university regulations, promotion requirements, student interaction, time management, and curriculum development.

– Research Orientation: Guidance on writing and publishing research, obtaining research grants, and networking with other researchers.

– Teaching Training: Workshops on modern teaching methods, technology use in education, and student assessment.

– Personal Skills Development: Training in communication, teamwork, problem-solving,

and leadership.
Professional development of faculty members
– Intensive Training Programs: Courses in teaching, research, technology use, communication, and leadership. – Workshops: Interactive sessions on various pharmacy and educational topics. – Support for Scientific Publishing: Material and moral support for publishing in high-impact journals. – Conference Participation: Opportunities to attend scientific conferences locally and internationally. – Scholarships: Opportunities for postgraduate studies in specialized fields.

Acceptance Criterion
Admission to the Pharmacy Department at Al-Huda University College requires a minimum score of 79.5%. Applicants must be graduates from scientific or biological streams or top graduates from technical institutes.

The most important sources of information about the program
– Pharmacy College Library, University of Baghdad – World Health Organization (WHO) – Council of Deans of Pharmacy Colleges in Iraq

Program Development Plan
- Curriculum Update: Integrate recent advances in pharmacy including clinical pharmacy, biotechnology, nanotechnology, and molecular pharmacy. - Equip Labs and Classrooms: Provide up-to-date lab and classroom technologies and scientific references. - Promote Research: Offer material and logistical support for researchers and encourage high-impact publication. - Establish Research Partnerships: Collaborate with local and international research institutions for expertise exchange. - Continuous Training: Provide ongoing training programs to update faculty knowledge and skills. - Foster Research: Encourage faculty participation in research and provide necessary support.

Program skills chart																
Required learning outcomes of the program																
Values					Skills				Knowledge					Essential or optional	Course name	Course code	First year
C3	C2	C1	B6	B5	B4	B3	B2	B1	A5	A4	A3	A2	A1				

								√					√	Essential	Human biology		
	√	√					√		√	√				Essential	Principles of Pharmacy Practice		
								√			√		√	Essential	Analytical Chemistry		
													√	Essential	Medical Terminology		
				√										Essential	Mathematics and Biostatistics		

√		√											Essential	Democracy and Human Rights		
												√	Essential	Human Anatomy		
				√								√	Essential	Pharmaceutical Calculations		
								√				√	Essential	Medical Physics		
			√							√		√	Essential	Organic Chemistry I		
												√	Essential	Histology		
				√									Essential	Computer Sciences		

Values					Skills				Knowledge					Essential or optional	Course name	Course code	Second year
C3	C2	C1	B6	B5	B4	B3	B2	B1	A5	A4	A3	A2	A1				
			√								√		√	Essential	Organic Chemistry II		
										√			√	Essential	Medical Microbiology I		
				√									√	Essential	Physical Pharmacy I		

													√	Essential	Physiology I		
				√										Essential	Computer Sciences		
														Essential	Baath Regime Crimes in Iraq		
			√								√		√	Essential	Organic Chemistry III		
										√			√	Essential	Medical Microbiology II		
				√									√	Essential	Physical Pharmacy II		
													√	Essential	Physiology II		

												√	√	Essential	Pharmacognosy I		
Values					Skills				Knowledge					Essential or optional	Course name	Course code	Third year
C3	C2	C1	B6	B5	B4	B3	B2	B1	A5	A4	A3	A2	A1				
								√				√	√	Essential	Inorganic Pharmaceutical Chemistry		
												√	√	Essential	Pharmacognosy II		
								√					√	Essential	Pharmaceutical Technology I		

										√			√	Essential	Biochemistry I		
										√			√	Essential	Pathophysiology		
			√					√			√	√	√	Essential	Organic Pharm. Chemistry I		
						√		√		√		√	√	Essential	Pharmacology I		
								√					√	Essential	Pharm. Technology II		
										√			√	Essential	Biochemistry II		
												√	√	Essential	Pharmacognosy III		

√	√	√							√					Essential	Pharmacy Ethics		
Values					Skills				Knowledge					Essential or optional	Course name	Course code	Fourth year
C3	C2	C1	B6	B5	B4	B3	B2	B1	A5	A4	A3	A2	A1				
						√		√		√		√	√	Essential	Pharmacology II		

			√					√			√	√	√	Essential	Organic Pharm. Chemistry II		
					√	√	√			√		√		Essential	Clinical Pharmacy I		
				√				√						Essential	Biopharmaceutics		
							√			√				Essential	Public Health		
						√		√		√		√	√	Essential	Pharmacology III		
			√					√			√	√	√	Essential	Organic Pharm. Chemistry III		
					√	√	√			√		√		Essential	Clinical Pharmacy II		

					√	√						√		Essential	General Toxicology		
											√			Essential	Industrial Pharmacy I		
√							√							Essential	Communication Skills		
Values					Skills				Knowledge					Essential or optional	Course name	Course code	Fifth year
C3	C2	C1	B6	B5	B4	B3	B2	B1	A5	A4	A3	A2	A1				

														Essential	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	Pharmacoeconomic		
						√	√			√		√		Essential	Applied Therapeutics- II		
				√					√	√				Essential	Therapeutic Drug Monitoring (TDM)		
				√				√						Essential	Advanced Pharmaceutical Analysis		
					√	√	√			√				Essential	Hospital Training		

						√					√			Essential	Dosage Form Design		
								√			√			Essential	Pharmaceutical Biotechnology		

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