



Academic Program and Syllabus Description

Madinat al-alem university

College of Pharmacy

2026-2025

Description of Academic Program & Syllabus

Madinat Al-alem University

College of Pharmacy

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Introduction

Madinat Al-alem unuversity (MAU) is an Iraqi private university located in the Holy City of Kadhimiya, Baghdad. It comprises a diverse range of scientific and liberal arts colleges dedicated to providing high-quality university education that aligns with the evolving demands of both local and international labor markets. The **College of Pharmacy** was established at madinat AL-alem University for the academic year **2025–2026** as part of the university's strategic expansion into health and scientific disciplines.

The College aims to prepare scientifically and professionally qualified pharmacists capable of practicing across various pharmaceutical fields, including **clinical pharmacy, pharmaceutical sciences, pharmaceutical chemistry, and pharmacology, pharmacognosy**. The College is dedicated to providing a modern learning environment that integrates theoretical lectures with practical training in specialized laboratories and workshops designed to enhance students' clinical skills. Furthermore, the College fosters scientific research and active participation in academic events to empower students to innovate and effectively respond to the evolving demands of the healthcare sector.

The presence of the **College of Pharmacy** within **Madinat Al-alem University** plays a vital role in meeting society's demand for professional pharmacists. It strengthens the healthcare system by supplying the local market with a skilled workforce capable of excelling in hospitals, community pharmacies, research centers, and the pharmaceutical manufacturing sector



Academic Program Description

University Name: Madenat Alelem University

College/Institute: College of Pharmacy

Scientific Department: Department of Pharmacy

Academic or Professional Program Name: Bachelor of Pharmacy

Final Certificate Name: Bachelor in Pharmacy

Study System: Semester-based

Date of Preparing the Description: 9/2/2026

Date of Filling the File: 9/2/2026

Signature:

Name of Head of Department:
Assist. Prof. Dr. Duaa Jaafar
Jaber

Signature:

**Name of the Assistant Dean for Scientific
Affairs:** Lect. Dr. Saif Mohammed
Hassan

Date:

Reviewed by the Division of Quality Assurance and University Performance Name of Head of
the Division of Quality Assurance and University Performance:

Date:

Signature:

Approval of the Dean

أ.د. فارس عبد الكريم
رئيس الجامعة





Descriptive Data

The following is the Organizational Identity Data Table

Madinat Al-alem university	University name
College of pharmacy	College / faculty
Single-Department College	Scientific Department
Bachelor of Pharmacy	Academic Program Name
Bachelor of Pharmaceutical Sciences	Degree Awarded
Semester system	Educational System
Curriculum and Syllabi according to Ministry Standards	Accredited Program
Teaching Clinics & Health Centers	Other External Influences / Factors
	Date of Specification Preparation
	Date of File Completion

Member

Banana

Member

Member

Manager of the Quality Assurance Unit

Associate Dean for Scientific Affairs

Dean of the college

رئيس الجامعة





1- Vision Statement of the Program

To be a leading academic institution in pharmaceutical education and scientific research, contributing to the advancement of healthcare and pharmaceutical services to serve the community at both local and regional levels.

2- Program Message

- The College of Pharmacy is committed to preparing distinguished pharmacists equipped with the scientific knowledge and practical skills necessary to provide high-quality pharmaceutical services and care, achieved through:
 - Modern educational programs.
 - A research environment that fosters innovation.
 - Commitment to professional and humanitarian values.

3- Program objectives

- Preparing scientifically and practically qualified pharmacists for careers in hospitals, pharmacies, and pharmaceutical companies.
 - Developing scientific research in the fields of pharmaceutical industries and pharmaceutical care.
 - Enhancing the efficiency of pharmaceutical services to ensure the optimal use of medications.
 - Developing students' skills through field training in health and pharmaceutical institutions.
 - Promoting professional ethics and responsibility toward patients and society.
 - Establishing collaborative partnerships with health and research institutions, both locally and internationally.

4- Academic Program Accreditation

Ministry of Higher Education and Scientific Research

5- External Factors and Drivers

Labor Market Requirements- Field Visits to Government Agencies- Extracurricular and Voluntary Activities- Hospital Internships / Clinical Placements

6- Program Structure

Notes	percentage	Credit Unit	Number of Courses	Program structure
				University Requirements
		31	11 subject for first stage	College Requirement
			Third and fourth stage	Summer Practicum



			Community Services via Teaching Clinics	Others
				Grand total





Academic Curriculum

Units	Credit Hours				Course title	Course code	Academic Level
	Teaching Methodology	Practical	Teaching Methodology	Theoretical			
2	-	0	Lectures	2	Biostatistics	MPH111101	
4	Practical	2	Lectures	3	Human Anatomy & Histology	MPH111102	First stage
2	-	2	Lectures	1	Medical Physics	MPH111103	(first semester)
2	-	0	Lectures	2	Democracy & Human Rights	MPH111104	
4	Practical	2	Lectures	3	Analytical Chemistry	MPH111105	
1	-	0	Lectures	1	Medical Terminology	MPH111106	
4	Practical	2	Lectures	3	Organic Chemistry I	MPH111207	
4	Practical	2	Lectures	3	Physiology I	MPH111208	First stage
4	Practical	2	Lectures	3	Pharmaceutical Calculations	MPH111209	(second semester)
2	Practical	2	Lectures	1	Computer Sciences I	MPH111210	
2	-	0	Lectures	2	Arabic language	MPH111211	

7- Program Learning Outcomes

Learning outcomes	A- Knowledge	
Life-long learning and the pursuit of knowledge expansion, maintaining scientific and practical competence, and applying modern technology in the practice of pharmacy and its various sciences.	Acquires comprehensive knowledge of relevant pharmaceutical science concepts that form the basis for understanding pharmaceutical formulations and medicinal drugs.	1 A
	The student defines fundamental pharmaceutical terminology, including mechanisms of action, side effects, and drug-drug interactions.	2 A
	Explains evidence-based principles of pharmacology, pharmaceuticals, and pharmacokinetics and their correlation with scientific research.	3 A
	The student selects appropriate tools and materials for the formulation and compounding of medicinal drugs.	4 A

Learning outcomes	A. skills	
Demonstrating the student's ability to interpret and evaluate data to determine the accuracy and reliability	The student correctly and safely performs laboratory analytical techniques for medications	1 B
	The student applies infection control and sterilization standards in the pharmacy.	2 B
	The student resolves pharmaceutical compounding issues using appropriate techniques.	3 B





1. Academic Faculty

Academic Faculty Members

	*			-	Dentistry	Bachelor	Salma Yaser Abdul hamed
*				Remote Sensing and Image Processing	PHD in physics	Lecturer	Ali Kadhim rasan
*				Surgery	Doctor	Lecturer	Samer sabah salman
*					Veterinary Medicine	Assistant lecturer	Raneen hisham
*					Arabic language	Assistant lecturer	Sahar hassan
*					Chemistry	Bachelor	Ali jalob
					Master of laws	Assistant lecturer	Shahad Emad
					PHD in chemistry	lecturer	Ali jalil
					Master microbiology	Assistant lecturer	Baneen moeen abdol ali

12- Professional Development

Faculty Orientation

A- Workshops and Training Courses: Organizing workshops on modern teaching methods, such as Problem-Based Learning (PBL) and Blended Learning, which encourage critical thinking among students.

B- Training faculty members on using simulation techniques in clinical teaching: providing students with the opportunity to practice skills in a safe environment before interacting with patients

C- Constructive Feedback: Faculty members learn how to provide effective and constructive evaluations to students, helping them identify strengths and weaknesses and improve their performance.





of information from reference sources.	The student organizes clinical examination data and radiographic images to achieve an accurate diagnosis.	4 B
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Learning outcomes	C-Values	
Promoting pharmaceutical professional ethics and social responsibility.	The student identifies the rules and ethics governing the pharmacy profession to serve as a role model in practicing the profession with integrity and high moral standards, which is reflected in all aspects of their professional life.	1 C
	The student demonstrates adherence to the ethical guidelines established by instructors and senior professionals, including confidentiality, informed consent, and equity.	2 C
	The student participates in discussions regarding the importance of obtaining informed consent before initiating any therapeutic procedure.	3 C
	The student demonstrates profound respect for patient privacy and exhibits flexibility in managing diverse cases, situations, and legal or ethical behaviors aligned with professional standards, while considering the specific needs of children, adolescents, persons with disabilities, and the elderly.	4 C

1. Academic Faculty							
Academic Faculty Members							
Faculty Count		Special Requirements/Skills (if any)	Specialization		Academic rank	Instructor Name	
Lecturer	Staff		special	General			
	*		Pharmaceutics	PHD in pharmacy	Assistant professor	Duaa jafar Jaber	
	*		Pharmacology and Therapeutics	PHD in pharmacy	Lecturer	Saif Mohammed hassan	
	*		Clinical Chemistry	PHD in pharmacy	Lecturer	Haider adnan abdul amir	
	*		Clinical Biochemistry	PHD in pharmacy	Lecturer	Hiba abbas abdul hassan	





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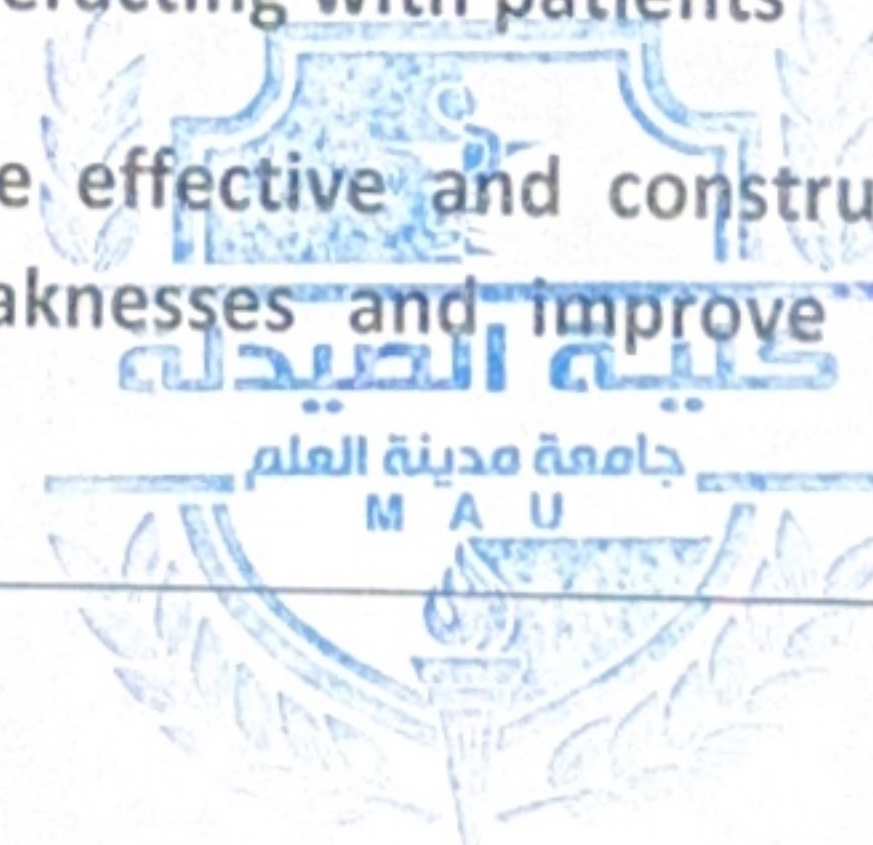
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D- Scientific Research Methodology Courses: Organizing specialized courses in study design, statistical data analysis, and research paper writing, aiming to enhance faculty participation in scientific research.

E- Research Collaboration: Encouraging cooperation between different departments within the college, as well as with international research institutions, to exchange expertise and establish joint research projects.

F- Research Grants: Providing support and assistance to faculty members in securing research grants from local and international entities, ensuring the continuity of scientific research.

Faculty Development

A- Scientific Conferences and Seminars: Participation in scientific conferences and seminars provides an opportunity for faculty members to stay informed about the latest technologies and developments in pharmaceutical sciences.

B- Continuing Medical Education (CME) Programs: Offering specialized training courses in specific fields (such as drug manufacturing, pharmaceutical formulations, and clinical pharmacy) to update the clinical skills of faculty members.

C- Teaching Performance Evaluation: Using student surveys to evaluate the performance of faculty members after their participation in development programs.

D- Research Productivity: Measuring the number of research papers published in peer-reviewed scientific journals following the completion of training.





13-Admission Criteria

1- **General Average for Central Admission:** Adherence to the minimum grade requirements (GPA) set by the Ministry of Higher Education and Scientific Research. This applies to high-achieving students who possess the necessary **physical and mental capabilities**.

2- **Personal Interview:** Conducting interviews with applicants to screen for any speech, behavioral, or personality impediments. The interview also evaluates key traits such as the **desire to help others, self-confidence, and the ability to face challenges**.

14-Main Sources of Program Information

A- **Ministry of Higher Education and Scientific Research / Committee of Deans of Iraqi Faculties of Pharmacy:** The primary regulatory and academic authority.

B- **College Website:** The official online platform for updates, curriculum details, and announcements.

C- **General Books and Resources:** Specialized references and textbooks across various basic and medical science disciplines (for a single-department college).

15-Program Development Plan

- 1- **Curriculum Update** To ensure our graduates possess the skills and knowledge necessary to keep pace with global developments in pharmacy, the curricula must be reviewed and updated periodically.
 - A- **Comprehensive Review:** A specialized committee of faculty members and experts should be formed to evaluate the current curricula and identify strengths and weaknesses.
 - B- **Integration of Latest Technologies:** Introducing new topics such as Digital Pharmacy.
 - C- **Focus on Clinical Skills:** Increasing the number of hours allocated for practical training in hospitals, with an emphasis on basic and advanced clinical skills.
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- 2- **Development of Teaching and Evaluation Methods** Developing teaching and assessment methods contributes to improving the quality of education, making it more interactive and effective.
 - A- **Interactive Learning:** Utilizing Problem-Based Learning (PBL), where students are presented with real clinical cases and learn how to solve them collaboratively.
 - B- **Virtual Simulation:** Utilizing simulation centers and virtual simulators to train students



on clinical procedures in a safe environment.

- C- Continuous Assessment: Implementing a Formative Assessment system that measures student progress continuously, rather than relying solely on final exams.





Curriculum Skills Map

Program Learning Outcomes										Core or Elective	Course name	Course code	Year/level		
Affective and Value-Based Objectives				Functional Skills Objectives				Cognitive Objectives							
C1	C2	C3	C4	B1	B2	B3	B4	A1	A2					A3	A4
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	□	□	□	□	MPH111101	2026-2025
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	□	□	□	MPH111102	2026-2025
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	□	□	□	MPH111103	2026-2025
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	□	□	□	MPH111104	2026-2025
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	□	□	□	MPH111105	2026-2025
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	□	□	□	MPH111106	2026-2025

