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تفاصيل البرنامج الواحد		
MSc_Ph	Program ID	رمز البرنامج
Master in Pharmacy	Program name	اسم البرنامج
Pharmacy	College Name	الكلية
Pharmacy	Department Name	القسم
<a href="https://drive.google.com/file/">https://drive.google.com/file/</a>	Program URL	الموقع الالكتروني للبرنامج
Master	Degree Name	اسم الدرجة
Masters	Study Level	مستوى الدراسة
Full-time	Course Intensity	نوع الكورس
On campus	Study Mode	طبيعة الدراسة
-	MBA Program Type	
تفاصيل البرنامج		
- Life science and Medicine	Broad Subject Area	الموضوع العام
Pharmacy	Main Subject:	الموضوع الرئيسي
	Custom Subject	الموضوع اذا لم يكن مذكور
Pharmacy	Specialization	الاختصاص
<b>Program Overview</b> This two-year Master of Pharmacy program is designed to equip students with advanced knowledge and skills in the field of pharmacy, focusing on clinical pharmacy, drug development, and therapeutics. The curriculum is structured to provide a comprehensive understanding of advanced topics in biochemistry, pharmacology, organic chemistry, biostatistics, and drug	Program Description	وصف البرنامج



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delivery systems.

### Year One: Foundation Courses

The first year of the program lays a strong foundation for advanced studies in pharmacy. Core courses include:

- **Advanced Clinical Biochemistry I:**

This course delves into the biochemical principles underlying disease states and the role of laboratory tests in diagnosis and monitoring.

- **Molecular Pharmacology:** Students explore the molecular mechanisms of drug action, receptor-ligand interactions, and the principles of drug design.

- **English Language:** This course enhances students' language proficiency, enabling effective communication in academic and professional settings.

- **Advanced Organic Chemistry:**

Building upon undergraduate knowledge, this course covers advanced topics in organic chemistry, including stereochemistry, reaction mechanisms, and synthesis.



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- **Biostatistics:** Students learn statistical methods for analyzing pharmaceutical data, including hypothesis testing, regression analysis, and experimental design.
- **Advanced Biopharmaceutics:** This course focuses on the formulation, delivery, and bioavailability of drugs, considering factors such as drug-excipient interactions and dosage forms.

#### Year Two: Specialization and Research

The second year allows students to specialize in areas of interest and engage in research activities. Key courses include:

- **Advanced Pharmacology:** This course explores advanced topics in pharmacology, such as drug toxicology, pharmacogenetics, and pharmacoeconomics.
- **Chemistry of Natural Products:** Students learn about the isolation, characterization, and biological activities of natural products with therapeutic potential.
- **Heterocyclic Compounds:** This course covers the chemistry,



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properties, and applications of heterocyclic compounds, which are prevalent in many drugs.

- **Advanced Clinical Biochemistry II:**

This course delves into advanced topics in clinical biochemistry, including enzyme kinetics, metabolic disorders, and biomarkers.

- **Advanced Therapeutics:** Students explore the principles of drug therapy, including dosage regimens, adverse effects, and drug interactions.

- **Advanced Drug Delivery Systems:**

This course focuses on the design and development of innovative drug delivery systems, such as controlled-release formulations and targeted drug delivery.

- **Drug Metabolism:** Students learn about the metabolic pathways of drugs, including phase I and phase II reactions, and their impact on drug efficacy and toxicity.

### Research Component

In the second year, students are required to conduct independent research under the guidance of a faculty mentor. This research





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project culminates in a thesis, which is defended in a viva voce examination. The thesis can focus on a variety of topics, such as drug discovery, formulation development, or clinical studies.

### Program Outcomes

Upon completion of the Master of Pharmacy program, graduates will possess the following skills and knowledge:

- A deep understanding of advanced topics in biochemistry, pharmacology, organic chemistry, and biostatistics.
- The ability to critically evaluate scientific literature and conduct independent research.
- Expertise in drug development, formulation, and delivery.
- A strong foundation in clinical pharmacy and patient care.
- The ability to communicate effectively, both orally and in writing.

This program is designed to prepare graduates for successful careers in pharmaceutical research, drug development, regulatory affairs, quality control, and clinical pharmacy.



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/ <a href="https://uomosul.edu.iq/en">https://uomosul.edu.iq/en</a>	-	University Official Website	موقع الجامعة الالكتروني
pgaffairs.ph@uomosul.edu.iq		Get more details (email)	بريد الكتروني للاستفسار
<ol style="list-style-type: none"> <li>1. What are the admission requirements for the Master's program in Pharmacy?</li> <li>2. What are the core and elective courses offered in the program, and how do they prepare students for their future careers?</li> <li>3. What research opportunities are available to students, and how can they get involved in ongoing projects or initiate their own research?</li> <li>4. What career support services are provided to help students transition from the program to professional roles in the pharmacy field?</li> <li>5. What types of workshops are available for Master's students in Pharmacy, and how do they enhance their learning experience?</li> </ol>	<p>Question 1/5</p>		<p>خمسة اسئلة عن البرنامج</p>
<ol style="list-style-type: none"> <li>1. Generally, applicants need a Bachelor's degree in Pharmacy or a related field, relevant work experience, a good GPA, standardized test scores (like the GRE).</li> <li>2. Core courses typically include Advanced Pharmacology, Clinical Pharmacy, and Pharmaceutical Chemistry, Drug Development and Regulatory Affairs. These courses provide both theoretical knowledge and practical skills needed for various pharmacy careers.</li> <li>3. Students can participate in research projects in areas like drug formulation and pharmacokinetics. They can get involved through coursework, faculty mentorship, or collaborations with industry partners.</li> <li>4. Career services typically include resume</li> </ol>	<p>Answer ٥/١</p>		<p>خمسة اجوبة عن البرنامج</p>



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workshops, interview preparation, job fairs, and networking events to help students secure positions in clinical, industrial, or academic pharmacy roles. 5. Master's students in Pharmacy can participate in various workshops designed to enhance their practical skills, professional development, and academic knowledge.		
1 <sup>st</sup> semester: 13 unit 2 <sup>nd</sup> semester: 13 unit	Duration Unit:	الوحدات
Years	Duration Type	نوع البرنامج
September the 1 <sup>st</sup>	Start Month-	بداية البرنامج (شهر)
يوم: ٠٩	Application Deadline	موعد انتهاء التقديم للبرنامج
شهر: ٠٦		
سنة: ٢٠٢٤		
Iraqi Dinar (IQD)	Fees Currency :	العملة
For Iraqi students: 3.500.000 IQD Per year For international Students: 1.500.000 - 3.000.000 IQD Per year	Price Information	معلومات الاجور
Entry Requirementsمتطلبات الدخول للكورس		
General competitive exam in Pharmacy focus assessing the general knowledge of the applicant Pharmacology and Toxicology Clinical Pharmacy Pharmaceutical Chemistry Pharmaceutics Pharmacognosy and Medicinal Plants Clinical laboratory Sciences	Exam Type: Paper-based Exam	نوع الامتحان
Graduation Certificate Nomination Letter from the applicants' Job	Entry Requirements (Other) :	متطلبات اخرى
1.750.000 IQD Per Year	Min Total Tuition Fees (Domestic) :	الحد الأدنى لإجمالي الرسوم الدراسية (المحلية):
3.500.000 IQD Per Year	Max Total Tuition Fees (Domestic) :	الحد الأقصى لإجمالي الرسوم (المحلية):
	Min Total Tuition	الحد الأدنى لإجمالي الرسوم الدراسية





		Fees (Domestic, In State) :	(المحلية، داخل الولاية):
		Max Total Tuition Fees (Domestic, In State)	الحد الأقصى لإجمالي الرسوم الدراسية (المحلية، داخل الولاية):
		Min Total Tuition Fees (Domestic, Out of State)	الحد الأدنى لإجمالي الرسوم الدراسية (المحلية، خارج الولاية)
		Max Total Tuition Fees (Domestic, Out of State) :	الحد الأقصى لإجمالي الرسوم الدراسية (المحلية، خارج الولاية):
1.500.000 IQD Per year		Min Total Tuition Fees (International) :	الحد الأدنى لإجمالي الرسوم الدراسية (الدولي):
3.000.000 IQD Per year		Max Total Tuition Fees (International) :	الحد الأقصى لإجمالي الرسوم الدراسية (الدولي):
Iraqi Dinar (IQD)		Tuition Fee - Currency	الرسوم الدراسية - العملة :
NO		Are candidates required to submit references or letter(s) of recommendation for acceptance?	هل يتعين على المرشحين تقديم مراجع أو خطابات توصية للقبول؟
NO		Are candidates required to submit an essay (s) for acceptance?	هل يتعين على المرشحين تقديم مقال (مقالات) للقبول (بروبوزال)؟
2 years		Minimum Professional Experience (in years) :	الحد الأدنى من الخبرة المهنية (بالسنوات):
Financial Aidالدعم المالي			
NO		Is there a school sponsored scholarship financial aid?	هل هناك منحة دراسية أو مساعدات مالية ترعاها الكلية أو القسم؟
Not applicable		Annual school budget scholarships:	ميزانية الكلية أو القسم السنوية لجميع الدراسية:
Not applicable		Currency:	العملة
Not applicable		Scholarship Information	معلومات المنحة
Program Statisticsاحصائيات البرنامج			
		Students per Class :	الطلاب لكل فصل :
29 y		Average age (in years) :	معدل عمر الطلبة





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2 years	Average years of work experience at managerial level :	متوسط سنوات الخبرة في العمل على المستوى الإداري:
%5	Percentage of international students :	نسبة الطلبة الاجانب
%50	Percentage of women :	نسبة الاناث
50 and more	Average GMAT score for Your cohort :	معدل درجات التخرج
1,500,000	Average salary after graduation :	متوسط الراتب بعد التخرج :
Variable	Percent employment after graduation :	نسبة التوظيف بعد التخرج:
-	Program accreditations :	اعتمادات البرنامج ( الاعتمادية )
2	Average work experience (in years) :	متوسط الخبرة العملية (بالسنوات)
Only Iraqi	Number of nationalities in current cohort :	عدد الجنسيات في وجبة التخرج الحالي :

**Campus Details تفاصيل الكلية او القسم**

كلية الصيدلة / الصيدلة	Institution Profile Name Display :	اسم الكلية او القسم
٢٠١٣	Foundation Year :	سنة التأسيس
	Current Logo :	شعار الكلية او القسم



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علما ان هذه المعلومات لكل برنامج اكايمي في الجامعة

1<sup>st</sup> semester

Subject	Unit
Advanced Clinical Biochemistry I	2
Molecular Pharmacology	2
English Language	-
Advanced organic Chemistry	2
Biostatistics	2
Advanced Biopharmaceutics	3
منهج بحث علمي	2

Mark	Grade
90-100	Excellent
80-89	Very good
70-79	Good
60-69	Fair
50-59	Pass
0-49	Fail

2nd semester

Subject	Unit
Advanced Pharmacology	2
Chemistry of Natural Products	2
Heterocyclic Compounds	2
Advanced Clinical Biochemistry II	2
Advanced Therapeutics	2
Advanced Drug Delivery Systems	2
Drug Metabolism	1

Thesis: Units: 10

جامعة  
الموصل