

2025



COLLEGE HANDBOOK

College Handbook Guide Preparation Committee:

Dr. Musab M. Khalaf	Head
Dr. Mohammed N. Abed	Member
Dr. Mohannad E. Qazzaz	Member
Dr. Ghayth M. Abdulrazzaq	Member
Dr. Adnan A. Zainal	Member
Mr. Louay A. M. Al-Jalabi	Member

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

يَرْفَعِ اللَّهُ الَّذِينَ آمَنُوا مِنْكُمْ وَالَّذِينَ أُوتُوا الْعِلْمَ
دَرَجَاتٍ وَاللَّهُ بِمَا تَعْمَلُونَ خَبِيرٌ

صدق الله العظيم

سورة المجادلة (آية ١١)

Peace be upon you and God's mercy and blessings

I am pleased to welcome you through the official website of the College of Pharmacy, this window that reflects the bright face of the college and connects it to the world. I am glad to express my pride and honour in belonging to this prestigious scientific institution, which is considered one of the main pillars of the University of Mosul. The College of Pharmacy at the University of Mosul is among the leading colleges in Iraq, having been established in 1964 and reopened in 1992. Since then, it has played a pivotal role in supporting the health sector by preparing competent pharmacists through comprehensive academic programmes that cover the stages of bachelor's, master's, and doctoral degrees. The college is keen that these programmes comply with global standards, keep pace with the requirements of the local and regional job market, and adapt to ongoing developments in modern pharmaceutical sciences. To enhance this pioneering role, the college has adopted advanced study plans covering various pharmaceutical, clinical, and medicinal specialties, supported by an integrated infrastructure that includes modern laboratories and classrooms equipped with the latest educational tools.

Driven by our firm belief in the importance of scientific research and its role in the advancement of society, the college has paid special attention to providing a stimulating research environment by establishing specialized research laboratories, and encouraging faculty members and postgraduate students to conduct high-quality research. The college also aims to strengthen scientific cooperation with various academic and health institutions by regularly organizing scientific conferences, seminars, workshops, and training courses within the university. In conclusion, I can only express my sincere thanks and appreciation to everyone who contributed to building this distinguished scientific edifice, asking Almighty God to grant us all success towards goodness and progress.

And God is the grantor of success.

Prof. Dr. Yasser Fakri Mustafa
Dean of the College of Pharmacy



Vision

Raising the reality of the educational process in a way that guarantees the college a distinguished position among the colleges of pharmacy locally and globally.

Mission

Preparing all the necessary requirements for pharmaceutical education, providing the requirements of sober scientific research, adopting advanced administrative and technical systems, and taking care of everything that would prepare qualified graduates with high efficiency and great knowledge in all aspects of pharmaceutical work in its various fields.

Goals

1. Achieving what the college aspires to in terms of sobriety, developing the subjects of primary and higher studies, and keeping pace with the rapid development that is taking place in the world.
2. Participating in publishing research in international and local journals, and contributing to scientific and cultural publication and publication in the medical and pharmaceutical fields.
3. Spreading health awareness in the community through continuing education courses, applying workshops and methods of dealing with scientific websites on the Internet in order to reach the optimal use of medicine and medicinal plants and drugs to serve the community.
4. Encouraging students who have creative abilities in literary, artistic, scientific and sports fields and developing these abilities in proportion to the students' leisure time.
5. Involving the students in scientific seminars and conferences held by the college, and establishing and developing outstanding scientific activities for students.

Graduation oath

I swear by Almighty God and by my sacred things to be loyal to the one who taught me this profession, to be compassionate towards patients, prioritising their interests, not to disclose any secret of a patient, nor to administer medication with the intention of causing harm, and to conduct myself well with my colleagues, being faithful to my nation and my homeland, and God is my witness to what I say.

College of Pharmacy in Brief

The College of Pharmacy at the University of Mosul was opened in 1964.

It was closed in 1970 after graduating two consecutive classes in 1969 and 1970.

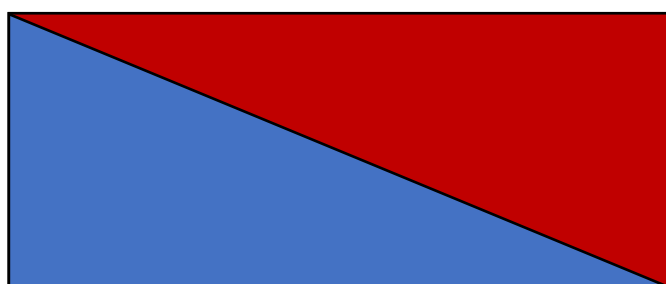
It was reopened at the University of Mosul in 1992.

The total years achieved by the College of Pharmacy are 6 years before closure and 21 years after reopening (1992-2012).

The college day is April 12th of each year.

College Flag

It consists of blue and red colors in a rectangular shape divided by a line from the upper left to the lower right. The blue color symbolizes the University of Mosul and the red color symbolizes the medical group.



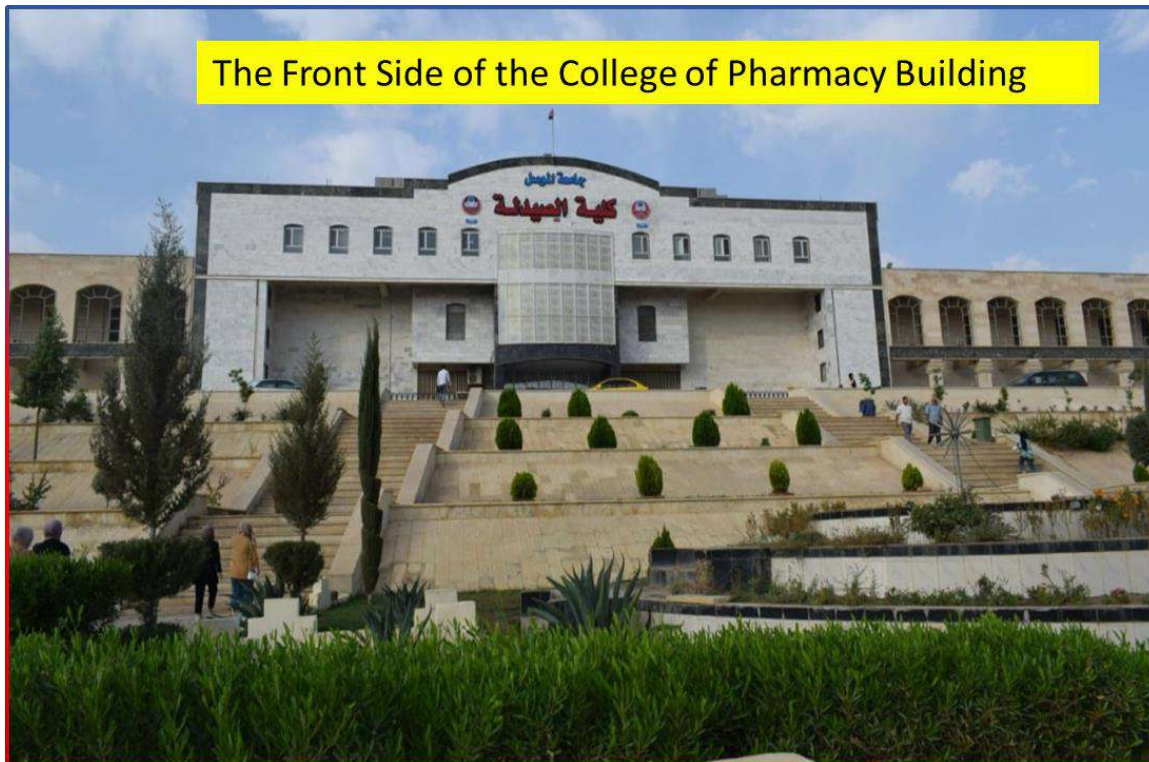
College Logo

The college emblem is largely derived from the University of Mosul emblem and contains in the center the pharmaceutical mortar used in preparing medical prescriptions, surrounded by two palm fronds to indicate treatments of plant origin, as well as the serrated arch that symbolizes the pharmaceutical industry that produces tablets, capsules, and other pharmaceutical forms for us. Their image is on the right side of the mortar and fronds, then the winged bull that symbolizes the authenticity and ancient history of knowledge in our country. All of this is placed on a book that symbolizes the knowledge provided in the colleges and departments of the University of Mosul. The emblem also includes the Hijri and Gregorian dates that mark the reopening of the college.



Location of the College Building

The College of Pharmacy is located within the medical group colleges at the University of Mosul. It is surrounded by the College of Veterinary Medicine to the south, the College of Nursing to the west, Nineveh College of Medicine to the north, and the College of Dentistry to the east. It is situated on a distinctive elevation in a beautiful setting, surrounded by gardens, streets, and courtyards. This location has given it a distinguished and clear position for visitors from both inside and outside the university.



Opening of the College Building

The college was moved to the new building in 2010-2011, which enjoys a large construction area and contains a large number of classrooms and twenty laboratories for undergraduate and graduate studies.



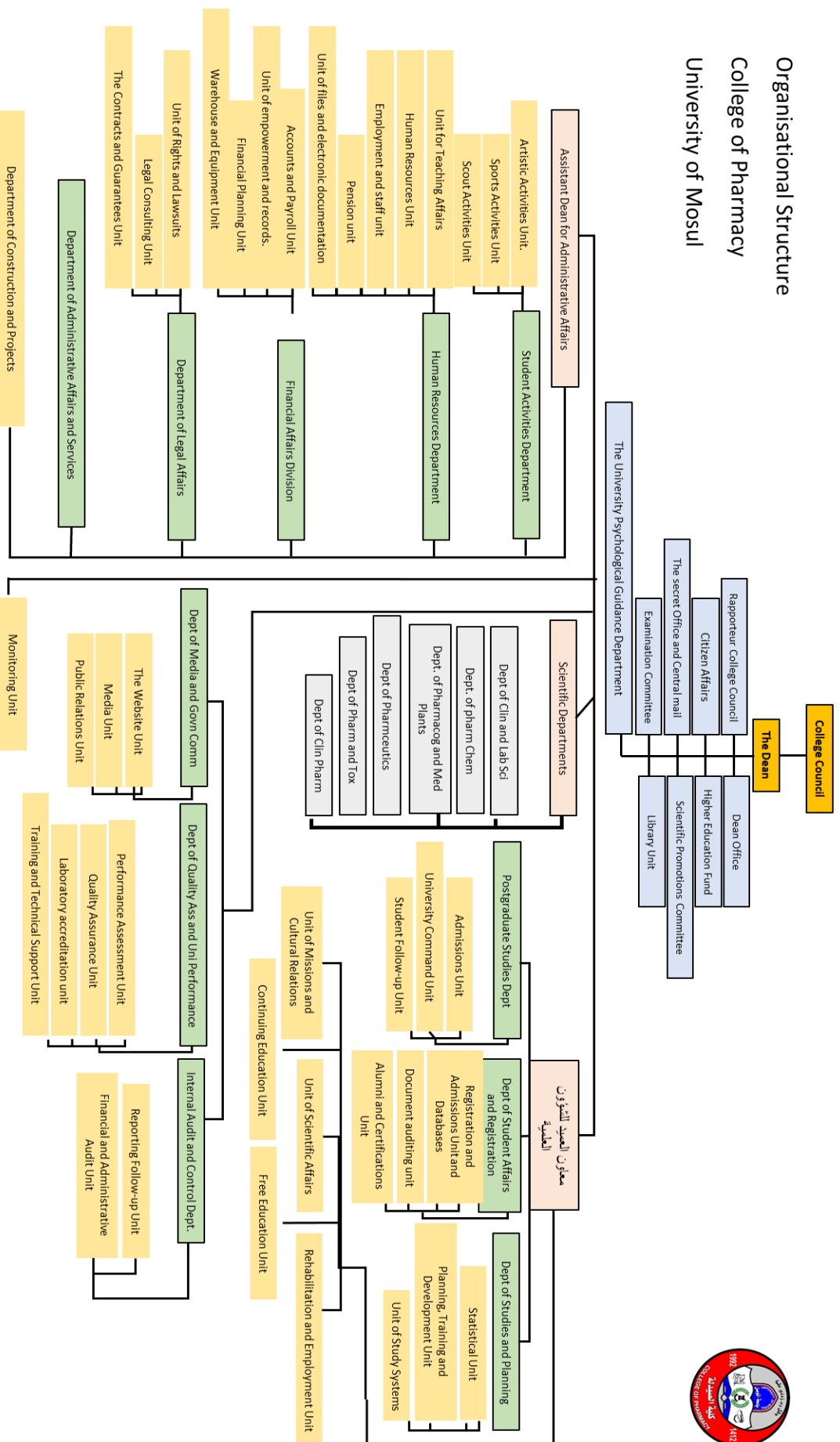
College Departments

The college was divided from three departments to six scientific departments in 2011, following the model of the mother College of Pharmacy in Baghdad and all pharmacy colleges in Iraq, according to Ministerial Order No. T M3/969 dated 29/1/2012, based on the recommendation of the University Council in its second session held on 4/10/2011 and University Order No. 1/8/3313 dated 14/2/2012, to make the college six departments with their new designations. These departments conduct all teaching for all academic subjects in the college throughout its five years. The departments are:

1. **Department of Pharmaceutics**
2. **Department of Pharmaceutical Chemistry**
3. **Department of Pharmacognosy and Medicinal Plants**
4. **Department of Pharmacology and Toxicology**
5. **Department of Clinical Laboratory Sciences**
6. **Department of Clinical Pharmacy**

The Organisational Structure of Management

Organisational Structure
College of Pharmacy
University of Mosul



The administrative organisational structure

Members of the College of Pharmacy Council

Prof. Dr. Yasser F. Mustafa	Dean of the College
Dr. Muhannad E. Muhyi al-Din	Dean Asst./Scientific Affairs
Dr. Hani M. Mohammed	Dean Asst./Administrative Affairs
Dr. Omar A. Hamid	Head/Dept. of Pharmaceutics
Dr. Muadh Q. Bashir	Head/Dept. of Pharm. Chem.
Dr. Fawaz A. Mustafa	Head/Dept. of Pharm. Tox.
Dr. Mohammed N. Abd	Head/Dept. Clin. Lab. Sci.
Dr. Mohammed I. Al-Adoul	Head/Dept Clin. Pharm.
Dr. Zaid M. Younus	Head/Dept of Pharmacognosy and Med. Plants
Raghad R. Al-Dabbagh	Representative of the Academics' Union
Dr. Mudhar N. Daoud	Secretary of the College Council



Main Divisions and Units in the College

First: Divisions and Units Affiliated with the College Deanship

1. Registry and Confidential Records The responsibility of the Registry and Confidential Records is to accomplish the tasks of the College Deanship and its council, prepare council minutes, follow up on their approval from the university, and implement their specific clauses with the scientific departments and relevant authorities.

Main Duties:

- Responding to confidential correspondence and sending it to competent authorities.
- Preserving and organizing outgoing and incoming confidential correspondence in special files according to dates and years.
- Printing confidential information related to academic promotions and scientific committees and sending it to competent authorities.

2. Internal Monitoring and Auditing Its duty is to monitor, audit, and review the college's administrative and financial activities according to laws, regulations, and instructions. It also audits accounts, warehouses, free education, the college library, bank statement reconciliation, advance and trust fund analyses, and trial balance reconciliation.

3. Media and Public Relations The Media Division at the College of Pharmacy works to document the college's activities in the media and coordinate with the University's Media Department to highlight the college's role in various scientific and cultural activities such as conferences, seminars, workshops, and training courses that the College of Pharmacy organizes for medical field workers and pharmacists in particular, to elevate the pharmaceutical work reality in health institutions.

Duties: Preparing a detailed weekly report of college activities, preparing and organizing seminars and conferences held by the college, preparing and updating the College of Pharmacy guide, printing posters and publications with scientific significance to enhance the role of the college and university media.

4. Iraqi Journal of Pharmacy (IJP) The Iraqi Journal of Pharmacy is a comprehensive, peer-reviewed scientific journal for all pharmaceutical sciences published by the Deanship of the College of Pharmacy - University of Mosul. The first issue was published in 2001 as the first national pharmaceutical journal and obtained the international Print-ISSN number at that time. The journal's editorial board initially consisted of Professor Dr. Faris Thanoun al-Abbaji (Editor-in-Chief) and members including Professor Dr. Basil Mohammed Yahya, Assistant Professor Dr. Faraj Mohammed Abdullah, Assistant Professor Dr. Essam Hamo Ibrahim al-Dabbagh, and Assistant Professor Dr. Nabeel Mohammed Jawad al-Nu'aimi as member and journal manager. The Iraqi Journal of Pharmacy was adopted within the Union of Pharmacy Colleges in the Arab World in 2002 and included a supervisory body from several pharmacy colleges in the Arab world (Egypt, Jordan, Syria, Palestine, Libya, Tunisia, Saudi Arabia, United Arab Emirates, Yemen). In 2019, the electronic international number e-ISSN and DOI were obtained, and currently it is trying to enter DOAJ. www.iphr.mosuljournals.com



The number of journal issues published up to 2021 is 22 issues in print and electronic format. A total of 267 scientific research papers have been published in various pharmaceutical and medical specializations since the journal's establishment in 2001 until the last issue published in 2025.

The editorial board consists of professors from inside and outside Iraq according to the instructions of the Ministry of Higher Education and Scientific Research:

Name	Academic Status	Specialization	University, Country	Membership
Yasser F. Mustafa	Prof., PhD	Pharm. Chemistry	Mosul, Iraq	Editor-in-Chief
Zeena A. Abdul Majeed	Asst. Prof., PhD	Pharma.	Mosul, Iraq	Managing Editor
Kawah F. Dezi	Prof., PhD	Pharma.	Hawler Medical University, Iraq	Member
Munther F. Mahdi	Prof., PhD	Pharm. Chemistry	Al-Mustansiriya, Iraq	Member
Ahmed A. Hussein	Prof., PhD	Pharmaceutics	Baghdad, Iraq	Member
Nawfal A. Nu'man	Prof., PhD	Pharma.	College of Pharmacy and Medical Sciences, Jordan	Member
Khairi M. Salem	Prof., PhD	Pharm. Chemistry	Al Ain, UAE	Member
Najeeb A. Mohammed	Prof., PhD	Clin. Pharmacy	Ajman, UAE	Member
Mohammed K. Al-Rahhal	Prof., PhD	Pharm. Chemistry	Lebanese University	Member
Maha F. Abdul Ghani	Prof., PhD	Pharm. Analysis	Ain Shams, Egypt	Member
Musab M. Khalaf	Asst. Prof., PhD	Pharmacology	Mosul, Iraq	Member
Muhannad A. Mahmoud	Asst. Prof., PhD	Pharmaceutics	Mosul, Iraq	Member
Harith K. Mohammed	Asst. Prof., PhD	Clin. Pharmacy	Mosul, Iraq	Member
Hani M. Almukhtar	Asst. Prof., PhD	Pharma.	Mosul, Iraq	Member

1. Library Unit

The library consists of a special reading hall containing many scientific books. The table below shows the total number of library books, which include many Arabic and foreign periodicals, magazines, and various books. It should be noted that the college library is considered one of the distinguished libraries for containing a large number of theses and dissertations by graduate students who completed their studies in Iraqi and foreign universities. The library relies on an international classification system for storing books, which facilitates access to them by library visitors. The college library has also been updated with the opening of the electronic library, which contains many modern computers (laptops) that provide quick access to many electronic resources that have been scientifically classified. These computers are also used to conduct electronic evaluation and ministerial tests. Work is also underway to subscribe to the virtual library, which is considered an additional source that provides students and faculty with research for the purpose of developing and activating the research movement in the College of Pharmacy.

Library Contents: English Books: 2064 books, covering more than 75 different specializations and including 894 titles according to the table:

Topics	No.	Book specialty	No.
Human\cell Biology	19	Community Pharmacy \Dispensing	4
Dictionary\Terminology\English Lang.	26	Analytical Ch.	10
Medicine\surgery	38	Pharmaceutical chemistry	18
Genetics	11	Pharmacy practice	9
Psychiatry	2	Physics	4
Endocrinology\Diabetes	4	Allergy\ Asthma	2
Cl. Chemistry\Biochemistry	41	Biopharmaceutics\Cl. Pharmacokinetics	9
Industrial Pharmacy	6	Physical pharmacy	5
Radiology\Nuclear Med.	3	Immunology	11
Hospital pharmacy	1	Pharmaceutical Tech.	3
Physiology	34	Pediatrics/ child-related	7
Pharmacognosy\ medicinal plants	15	Lab/ Diagnostics	38
Nursing	32	Dentistry	3
Virology	2	Eye \ Ophthalmology	2
Pharmacoeconomics	2	Pharm. Calculations	9
Nutrition	8	Cardiovascular	7
Pharm. Analysis	11	Anatomy	24
Neurology/Neuro-science	3	Nutrition	3
Pathology \Pathophysiology	15	Skin/ Dermatol.	3
related \ Pharmacology-Drug	162	1st Aid\ Emergency medicine	5
Inorganic\ organic Chemistry	32	Obstetrics\ Gynecology	5
Chemistry / Medicinal Chem.	14	Calculus	2
Epidemiology\ Statistics	24	Infectious Diseases/	7
Pharmacy/Cl. Pharmacy	15	Microbiology\ Parasitology	36
Therapeutics	23	Pharmaceutics	13
Oncology	2	Hematology	13
Histology	18	Misc	57
Toxicology	24		
<ul style="list-style-type: none"> • Arabic Books: 71 books in various specializations • English Periodicals: 232 issues • Arabic Periodicals: 263 issues • Master's and Doctoral Theses: 97 theses in various specializations 			

1. Other Units and Committees The College Deanship is linked to other units and committees, including the Promotions Committee, which works on completing procedures related to academic promotions for college faculty and following up with the University Presidency according to applicable regulations and instructions, in addition to other units including the Examination Committee, Monitoring, Auditing, and Follow-up.

Second: Divisions Affiliated with the Assistant Dean for Scientific Affairs

1. Scientific Affairs It accomplishes tasks related to scientific affairs, research and development, and follows up on the educational and research process in the college.

Scientific Affairs Duties: • Following up on the research plan in scientific departments, registering research, and monitoring completion rates. • Completing scientific leave transactions and certificates for faculty members. • Following up and implementing procedures for conferences, seminars, study sessions, and all other scientific activities. • Corresponding with other colleges to nominate faculty members in specializations not available in the college.

2. Quality Assurance and University Performance It works to ensure the implementation of quality systems and standards to enhance the university's capabilities and improve its performance to achieve its goals, which include quality education, scientific research, and community service.

Duties: • Represents the college to relevant quality and accreditation authorities. • Establishes necessary instructions and policies to accomplish the college's tasks and objectives. • Forms subcommittees and work teams to implement the college's goals and activities. • Works to build an integrated system for evaluating and improving faculty performance in all aspects. • Works to build an integrated system for evaluating and improving administrative staff performance in all related aspects, implemented by all university departments and facilities. • Works to build an integrated system for continuous self-evaluation of all university academic programs. • Works to establish incentives to encourage excellence in the college. • Implements training and educational programs for college staff and departments in the field of quality and accreditation. • Monitors the extent of scientific departments' compliance in applying quality standards and submits periodic reports to the University Quality Assurance Department. • Evaluates the work of college departments regarding interaction with the local community and provides advice and guidance in this regard.

1. Graduate Studies

The College of Pharmacy is one of the most important medical colleges at the University of Mosul. From its first year of establishment, the college developed a five-year study plan to award bachelor's degrees through three main departments: Clinical Pharmacy Department, Pharmaceutical Sciences Department, and Pharmacology Department. With the beginning of the 2011/2012 academic year, implementation of a new study plan began that included expanding the college departments by establishing three new departments, making the college departments six scientific departments: Pharmacology and Toxicology Department, Clinical Pharmacy Department, Clinical Laboratory Sciences Department, Pharmacognosy and

Medicinal Plants Department, Pharmaceutical Chemistry Department, and Pharmaceutics Department.

The college has continuously worked to develop its study plan to keep pace with developments in the profession. Believing that the pharmacy profession is not limited only to preparing and formulating medicine, but extends to direct effective contribution to patient care, the college adopted a new study plan distinguished by introducing modern courses that prepare graduates to practice the profession in its advanced form, including clinical pharmacy, clinical pharmacology, clinical biochemistry, and pathology.

A study plan was also established to award master's degrees in various specializations in the college departments, after which many master's degrees were granted to male and female students. The departments have continued to develop their master's degree study plans to keep pace with new developments in various specializations, and a doctoral program was also established in the college.

The number of master's certificates granted by the College of Pharmacy since its establishment until the 2023/2024 academic year reached one hundred and four (104) certificates distributed as follows:

- Seventy-nine (79) Master's certificates in Pharmacy
- Twenty-two (22) Master's certificates in Clinical Pharmacy
- Three (3) Master's certificates in Pharmaceutical Chemistry

Four (4) doctoral certificates were also granted in Pharmaceutical Chemistry specialization.

Currently Open Studies:

1- Diploma Programs Diploma Clinical Pharmacy

2- Master's Programs M.Sc. Pharmacy, M.Sc. Pharmacology, M.Sc. Clinical Pharmacy, M.Sc. Pharmaceutical Chemistry

3- Doctoral Programs PhD Pharmacy

General Admission Requirements for Graduate Studies:

Admission to graduate studies at the college is generally subject to the Unified Regulations for Graduate Studies in Iraqi Universities, which includes the following main provisions:

- The applicant must be Iraqi, or have received an official scholarship for graduate studies if they are non-Iraqi.
- The applicant must hold a university degree from an Iraqi university or from another university recognized by the Ministry of Higher Education and Scientific Research.
- The applicant must have good conduct and behavior and be medically fit.
- The applicant must provide two academic recommendations from professors who have previously taught them.
- Official approval for study if the applicant is employed.
- Full-time dedication to study for the doctoral stage.

1. Registration The Registration Division aims to implement all procedures related to student affairs in a way that enhances commitment to the educational process objectives according to applicable regulations and instructions.

Third: Units affiliated with the Assistant Dean for Administrative Affairs

1. Legal Affairs Its duty is to provide legal services in accordance with applicable laws and instructions, address all legal issues, participate in committees that require the presence of a legal officer, in addition to providing legal opinion and advice to all branches, divisions, and units in the college.

2. Administrative Affairs • Responding to all official correspondence received from higher authorities including statistics and daily reports. • Following up on the work of badges for our college affiliates for the purpose of entering the university campus. • Following up on issuing special IDs for our college affiliates by the University of Mosul presidency, as well as replacements for lost and damaged IDs, address changes, and certificate changes for IDs. • Following up on the work of service employees affiliated with our college and guiding them while providing them with the necessary materials and equipment.

Secondary duties: • Following up on college contracts including support contracts and others, and participating in administrative and technical committee work in the department. • Organizing civil defense work teams in the department while providing civil defense requirements including personnel and materials. • Working to develop administrative and service staff in our college through available means in the department. • Preparing classrooms and laboratories and their readiness for students in our college.

3. Human Resources The tasks of the Human Resources Division are to organize and manage the affairs of faculty members and employees working in the college in terms of their job entitlements, which include annual raises and promotions, as well as academic promotions for faculty members, leaves of all types, and everything related to college affiliates administratively. The Human Resources Division includes a number of administrative units directly affiliated with it as follows:

- Faculty Affairs
- Employee Affairs
- Employment and Staffing
- Retirement
- Files and Electronic Documentation

4. Accounts Division • Organizing payroll lists for affiliates. • Organizing disbursement documents and recording them in their special registers, as well as documenting them on paper and electronically for the purpose of organizing expenditure and revenue tables, trial balance, and advance and trust statements. • Matching cash amounts from college revenues and expenditures with bank statements. • Organizing documents for amounts deducted from affiliates (real estate, nursery, internet, retirement) and making checks for the amounts and sending them to the concerned parties. • Receiving amounts for student enrollment fees, document and certificate fees, letters of support, transfer, objections, and others, and depositing them in the bank in the Higher Education Fund account.

5. Maintenance and Services Unit The Maintenance Unit is considered one of the units of the Administrative Affairs Division in the college and is considered the link between all administrations of units, divisions, and departments as it is the valve for maintaining movement and work for the joints of college buildings, where it performs many tasks and is responsible for several matters, most notably:

1- Supervision and follow-up of everything related to maintenance work of college buildings including electrical work - water and sewage networks - gardens - furniture - devices and equipment - machinery.

2- Implementing the Dean's directives by conducting periodic inspections and following up on emergency situations of college buildings including classrooms, laboratories, administrative offices, and other facilities.

3- Coordination and follow-up with maintenance and procurement committees to maintain and provide necessary requirements and bring in specialized parties to carry out work that requires maintenance.



Scientific Departments of the College of Pharmacy

Department of Pharmaceutics

Vision: To educate and train students with modern curricula to become qualified pharmacists capable of working in pharmaceutical industries and drug control laboratories and quality control through:

- Opening and activating postgraduate studies to provide teaching staff and stimulate scientific research.
- Establishing a special research laboratory for postgraduate students and researchers in the field of pharmaceutical industry.
- Opening the Pharmaceutical Advisory Center to provide scientific and research advice to national pharmaceutical companies.
- Preparing a bioavailability laboratory to study the many drugs present in the local market that are submitted for registration by manufacturing companies.
- Opening a drug control laboratory in cooperation with official authorities to examine drugs entering from outside Iraq and ensure their safety.
- Establishing a department-specific library, both paper and electronic.

Mission: To provide scientific expertise to students and pharmaceutical manufacturing skills while maintaining quality and relying on solid scientific curricula and supporting them with modern technologies used in pharmaceutical and analytical industries within current and future pharmaceutical needs, and contributing to continuing education programs for workers in the field of pharmaceutical industries and community pharmacy, and providing all capabilities to serve the community.

Objectives:

- The department works to prepare students to be knowledgeable about the fundamentals of pharmaceutical manufacturing and capable of preparing pharmaceutical formulations and dosage forms.
- Preparing students to be capable of compounding medicines and medical prescriptions in their various forms, including preparation and packaging, with providing specific instructions for the use of each prescription and determining the necessary dosage.
- Preparing students to have sufficient knowledge of the drug's effect on the body and the body's effect on the drug.
- Preparing students to be capable of working in research laboratories and pharmaceutical companies to study and control the quality of pharmaceutical preparations (Quality control) and drug control.
- Preparing pharmacists capable of studying drug stability that ensures the validity of their use and expiration date as well as calculating their shelf-life.

Members of the department of Pharmaceutics

Name	Position	Degree	Specialization	Email
Omar A. Al-Azzo	Asst. Prof.	PhD	Pharmaceutics	omar.hamid@uomosul.edu.iq
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Sarah T. Al-Majdhab	Lec.	MSc	Pharmaceutics	seraph.taha@uomosul.edu.iq
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Radwan N. Mish'an	Lec.	MSc	Pharmacy Biotech	radhwan.alzidan@uomosul.edu.iq
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Maryam A. Amjad	TA	BSc Pharmacy	Pharm Sci	maryam.aws@uomosul.edu.iq
Mays R. Khalil	TA	BSc Pharmacy	Pharm Sci	mays.riyadh@uomosul.edu.iq



Courses Taught in the Department

Course	Year	Semester	Theoretical Hours	Practical Hours
Principles of Pharmacy	First	First	2	0
Pharmaceutical Calculations	First	Second	2	2
Physical Pharmacy I	Second	First	3	2
Physical Pharmacy II	Second	Second	3	2
Pharmaceutical Technology I	Third	First	3	2
Pharmaceutical Technology II	Third	Second	3	2
Biopharmaceutics	Fourth	First	2	2
Industrial Pharmacy I	Fourth	Second	3	2
Industrial Pharmacy II	Fifth	First	3	2
Drug Design	Fifth	Second	2	0
Biotechnology	Fifth	Second	1	0

The laboratories of the Department of Pharmaceutics

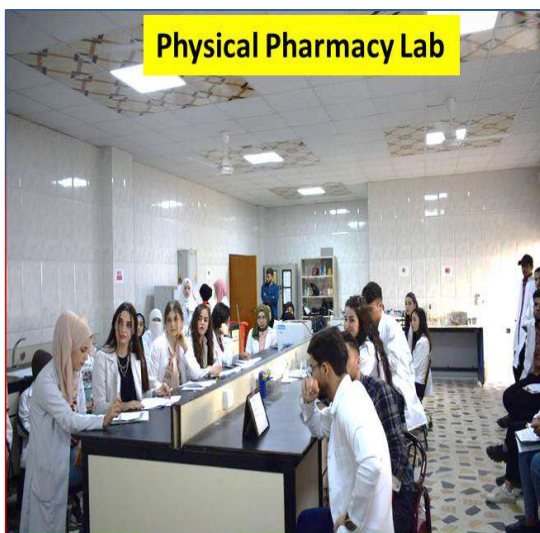
Biopharmaceutic Lab: focuses on the practical application of biopharmaceutical principles by measuring the release and absorption rates of drugs in artificially prepared solutions similar to the body's fluids, and it also includes practical applications for measuring the effects of metabolism on drug kinetics.

Physical Pharmacy Lab: The laboratory focuses on the practical application of the physical principles underlying pharmaceutical preparations by studying the solubility and diffusion of various drugs. It also includes the study of drug stability and the impact of temperature variations on drug efficacy.

Pharmaceutical Technology Lab: The laboratory focuses on the practical preparation of various pharmaceutical forms including syrups, suspensions, emulsions, and solid dosage forms such as tablets and capsules, in addition to semi-solid preparations like ointments, creams, and suppositories.

Pharmaceutical Calculations Lab: This laboratory focuses on the practical application of the laws and mathematical principles used in calculating the concentrations of substances used in pharmaceutical formulations through practical problems presented to students in the form of prescriptions that are discussed to reach appropriate solutions.

Industrial Pharmacy Lab: The laboratory focuses on the practical application of the steps involved in drug manufacturing by studying the processes of milling, mixing, drying, compression, and packaging. It also includes experiments for standardisation and quality control to ensure that drugs are produced according to the standards set forth in international pharmacopeias.



Physical Pharmacy Lab



Biopharmaceutic Lab



Pharm Calc Lab



Pharm Techology Lab



Industrial Pharmacy Lab

**The Laboratories of
the Department of
Pharmaceutics**

Department of Pharmaceutical Chemistry

Vision: The Department of Pharmaceutical Chemistry aims to develop competitive, professional, and well-skilled pharmaceutical capabilities with a broad scientific background that contributes to community development through communication and through the capabilities of an integrated team at both local and global levels, and to develop high-quality, ambitious researchers with creative thinking in problem-solving and enhancing teamwork capabilities.

Mission: Pharmaceutical chemistry is a unique blend of pharmaceutical sciences and chemistry; the mission of the department is to provide students (undergraduate and postgraduate) with a broad and wide scientific background equivalent to standard study programmes. As for the curricula, pharmaceutical chemistry is the main focus of the department, which includes drug design and discovery, organic and inorganic preparation of pharmaceutical and medicinal compounds, the chemistry of natural and synthetic products, the relationship between chemical structure and activity, peptide chemistry, molecular models, drug metabolism, and various related topics. The Department of Pharmaceutical Chemistry works on training students and equipping them with experience and skills so that they are qualified to work in the pharmaceutical industry and all scientific pharmaceutical fields after graduation.

Objectives: The Department of Pharmaceutical Chemistry focuses on teaching undergraduate and postgraduate students in the fields of medicinal chemistry, drug design, drug preparation, and drug analysis, as well as the relationship between chemical structure and pharmacological effect, allowing undergraduate students to understand how new drugs emerge. This enables students to become familiar with modern techniques for drug analysis as an important method for ensuring the quality of drugs in their pure form and in pharmaceutical preparations. As for postgraduate studies, it emphasises two specific research areas for the department (drug preparation and drug analysis), with topics to be taught aligned with modern trends in drug design and development, alongside other pharmaceutical subjects.



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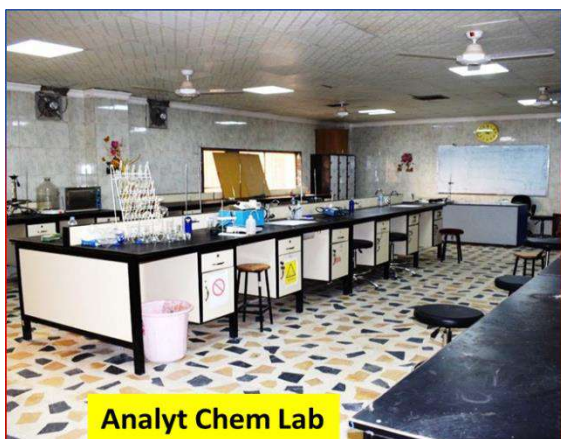
Laboratories affiliated with the Pharmaceutical Chemistry Department.

Analytical Chemistry Laboratory: In this laboratory, students learn how to conduct experiments related to quantitative chemical analysis.

Organic Chemistry Laboratories: Training students in qualitative analysis techniques and then applying these techniques to detect various organic substances.

Pharmaceutical Chemistry Laboratories: Students train in the methods of manufacturing and analysing many drugs and raw materials for pharmaceuticals.

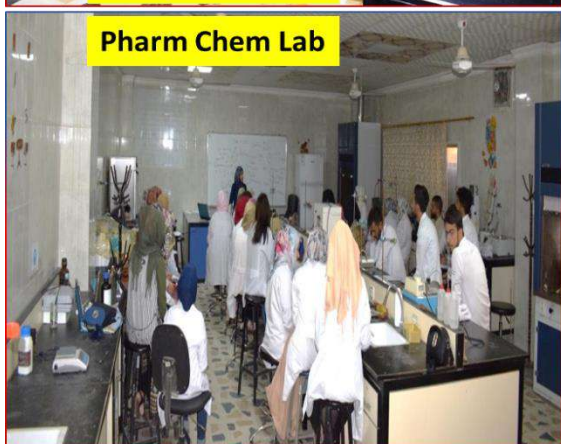
Advanced Pharmaceutical Analysis Laboratory: Pharmaceutical Chemistry Laboratory, training students to use specialized equipment for qualitative and quantitative chemical analysis (UV-Visible, IR, MASS and NMR Spectroscopy).



Analyt Chem Lab



Org Pharm Lab



Pharm Chem Lab

The Laboratories of the Department of Pharmaceutical Chemistry

Department of Pharmacognosy and Medicinal Plants

Vision: The vision of the branch is to achieve advanced ranks in the field of pharmaceutical sciences by preparing undergraduate and postgraduate students for future success in life through offering modern courses in pharmacology and drug discovery, as well as helping them develop a rigorous scientific attitude. This aligns with the vision of the College of Pharmacy and the University of Mosul.

Mission: The branch of pharmaceuticals and medicinal plants is an integral part of the scientific disciplines within the Faculty of Pharmacy at the University of Mosul. The specialisations in pharmaceuticals and medicinal plants include the fundamental mechanisms of extracting, separating, purifying, and classifying therapeutically active substances from natural sources, evaluating their therapeutic efficacy, their metabolism, and distribution within the body, as well as studies on the toxic or harmful effects of these chemicals/drugs on biological systems. Thus, the branch of pharmaceuticals and medicinal plants integrates diverse fundamental and scientific investigations around common research interests, providing unique capabilities to advance the discovery and development of new treatments.

Objectives:

- Expanding our knowledge in the field of extraction, separation methods, and recognising the latest technologies used in this area.
- Providing a modern laboratory environment equipped with the necessary equipment and tools to unify the theoretical information acquired through practical laboratory application.
- Developing and updating theoretical and practical curricula to align with the developmental vision adopted by the department.
- Enhancing interdisciplinary education in pharmaceutical sciences through collaboration with other branches of the College of Pharmacy.

Dept. of Pharmacognosy and Medicinal Plants



Department Members

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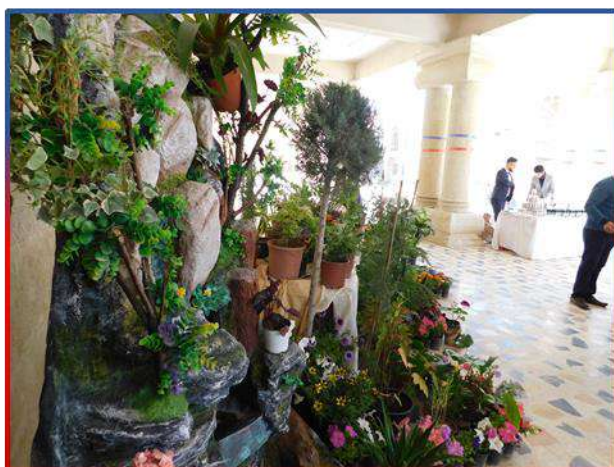
Courses Taught in the Department

Course	Year	Semester	Theoretical Hours	Practical Hours
Pharmacognosy I	Second	Second	3	2
Pharmacognosy II	Third	Second	2	2
Pharmacognosy III	Third	Second	2	2

The nature of work in Pharmacognosy Laboratory

- Identifying plants used in pharmaceutical industries.
- Training students on how to extract medicinal plants.
- Detecting the active substances in medicinal plants.
- Knowing the uses and side effects of each medicinal plant.

A Glimpse of the Activities and Seminars Organised by the Department



Department of Pharmacology and Toxicology

Vision: Leadership in pharmaceutical education, scientific research, and community service, striving to achieve the highest standards of quality and international accreditation to enhance the quality of education and scientific research, culminating in the preparation of graduates to work in health institutions and to contribute effectively to scientific research and pharmaceutical education for the community.

Mission: Preparing qualified pharmacists to engage in various fields of the pharmacy profession, adapt to its rapid challenges and developments, and contribute to community service and the advancement of the profession through various activities and scientific research, while also helping to improve the health situation in Iraq and worldwide.

Objectives:

- Aligning the department with modern scientific pathways in light of developments in the pharmaceutical field worldwide.
- Encouraging department members to conduct scientific research and create a research environment to enhance the level of pharmaceutical research.
- Preparing competent pharmaceutical staff by guiding students to apply the specialised sciences taught by the department.
- Enhancing the quality of teaching in the college and actively contributing to the continuous pharmaceutical education programme, leading to the use of the latest scientific techniques to convey information and develop the teaching staff in line with the department's objectives.
- Striving to utilise the department's expertise and capabilities for the benefit of the community.



Pharmacology Department Faculty - University of Mosul

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Academic Curriculum

Subject	Year	Semester	Theoretical Hours	Practical Hours
Medical Terminology	First	First	1	0
Medical Physiology I	Second	First	3	2
Medical Physiology II	Second	Second	3	2
Pharmacology I	Third	Second	3	0
Pharmacology II	Fourth	First	3	2
Pharmacology III	Fourth	Second	3	0
General Toxicology	Fourth	Second	2	2
Clinical Toxicology	Fifth	First	2	2

Laboratories of the Pharmacology and Toxicology Department

Pharmacology Laboratory

The Pharmacology Laboratory in the College of Pharmacy is considered one of the vital and important laboratories. This laboratory is dedicated to preparing fourth-year students to understand the basic concepts of pharmacology and its effects on laboratory animals, with illustrative examples to comprehend these concepts. Additionally, it develops students' skills in solving pharmaceutical problems related to pharmacology. The laboratory also teaches drug effects and monitors their medical efficacy on all body organs and various tissues, while studying drug interactions and side effects.

Toxicology Laboratory

The Toxicology Laboratory is considered one of the vital and important laboratories. It is concerned with teaching toxin analysis methods, procedures for determining therapeutic and toxic drug dosages, their biological evaluation, and identifying the extent of their side effects at high doses. The laboratory works to clarify the toxic mechanisms of many drugs and compounds in the human body and their negative effects to avoid harm resulting from their use. It guides pharmacy students to be responsible in community care by learning about the dangers of high doses and various toxins on the body.

Medical Physiology Laboratory

Physiology is a science that deals with how physical exercise affects movement, functions, and various body organs including muscles, the nervous and muscular systems, and the circulatory system. It is considered one of the most important basic sciences affecting humans when engaging in any physical activity. With continuation, it induces adaptation in these organs and systems. The science of physiology includes several important terms such as metabolism, differential threshold, anaerobic efficiency, and various types of capacity - both aerobic and anaerobic.



Department of Clinical Laboratory Sciences

Vision

To make the Clinical Laboratory Sciences Department a main pillar of pharmaceutical education and clinical laboratory research in the College of Pharmacy.

Mission

To establish a solid foundation for the concept of clinical laboratory analyses among pharmacy college graduates through intensive practical curriculum for final-year students in health institutions' laboratories and department laboratories, both practically and theoretically. This is achieved through the department's renewable curricula that provide students with strong scientific background about disease physiology, epidemiology of pathogenic causes, and clinical laboratory tests for diagnosing disease conditions, while activating the role of clinical laboratory analyses in serving the community through applied research work.

Objectives

- Prepare competent pharmaceutical staff to work in health institutions in the field of clinical laboratory analyses.
- Establish postgraduate studies (diploma, master's, doctorate) in the specializations that the department focuses on.

- Achieve scientific and research cooperation between the Clinical Laboratory Sciences Department and other scientific institutions (colleges, institutes, centers, and health institutions).
- Elevate the scientific level of research and advance it to the applied level in service of the community, while encouraging scientific and cultural activities for faculty members by urging them to participate in conferences and scientific seminars inside and outside the country.
- Prepare scientifically competent teaching staff trained on modern scientific equipment in the field of clinical laboratory sciences through participation in training courses inside and outside Iraq.
- Develop computer and software skills for department members and maintain continuous follow-up of computer software related to department research and topics, implementing them in the field of application.



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Academic Curriculum - Course Schedule

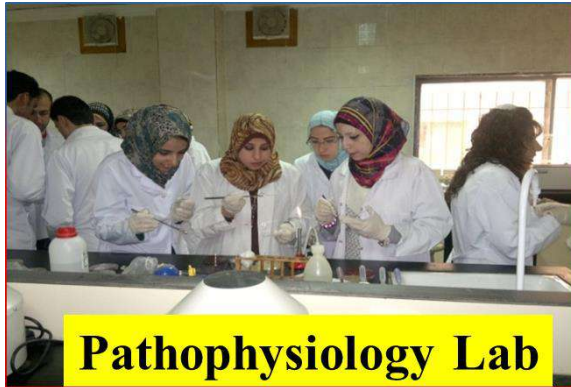
Subject	Year	Semester	Theoretical Hours	Practical Hours
Human Biology	First	First	2	2
Mathematics & Statistics	First	First	3	0
Computer I	First	First	2	2
English Language	First	First & Second	2	0
Anatomy	First	Second	1	1
Histology	First	Second	2	2
Human Rights	First	Second	2	0
Medical Physics	First	Second	2	2
Computer II	First	Second	2	2
Democracy	Second	First	2	0
Medical Microbiology I	Second	First	3	2
Computer III	Second	First	2	2
Laboratory Safety	Second	Second	2	0
Medical Microbiology II	Second	Second	3	2
Computer IV	Second	Second	2	2
Biochemistry I	Third	First	3	2
Pathophysiology	Third	First	2	2
Biochemistry II	Third	Second	3	2
Public Health & Pharmaceutical Applications	Fourth	First	2	0
Clinical Chemistry	Fifth	First	3	2
Laboratory Training	Fifth	Second	3	3

The laboratories of the Clinical Laboratory Sciences branch,

Microbiology and Virology and Parasitology Lab focuses on training students practically on the types of laboratory tests specific to microbiology, as well as using microscopes to identify various types of bacteria, fungi, and viruses, as well as preparing different culture media for the growth of these organisms.

The Biology, Anatomy, and Human Tissue Laboratory provides students with practical knowledge of the different organs of the human body in detail, starting from types of tissues to the most complex organs like the brain, and it also familiarises them with the different parts of the cell and the function of each of these vital components.

The Clinical Training Laboratory is dedicated to the clinical training of fifth-year students on various types of laboratory tests necessary for diagnosing diseases and monitoring the side effects of medications. The Computer Lab trains students on the use of computers, the internet, and information technology. The Medical Physics Lab trains students to conduct physical experiments related to the human body and to use various physical techniques with medical applications.



Pathophysiology Lab



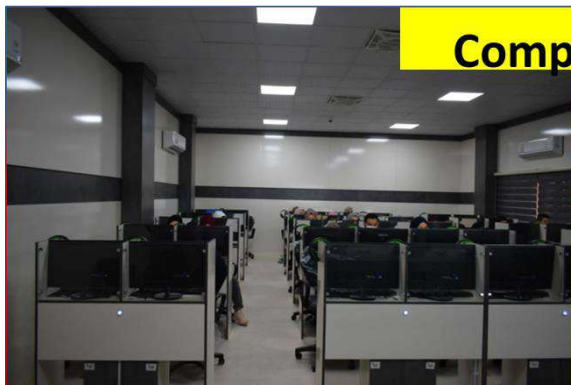
Microbiology Lab



Clinical Biochemistry Lab



Clinical Lab Training



Computer Lab



Dept. of Clinical Pharmacy





Clinical case studies-Hospital sessions

College activities



The Faculty of Pharmacy organises numerous student activities and events aimed at reflecting cultural, sporting, and community service aspects alongside the scientific activities conducted by the faculty. There is a student activities division equipped with football, basketball, volleyball, and table tennis courts where students engage in various sports activities. Some sports teams have achieved advanced results in the university championships for individual and team sports. Additionally, the faculty, with direct support from its dean, encourages and supports all students who possess artistic and cultural talents by providing the necessary equipment and suitable conditions for practising their hobbies, as well as involving them in all the events and festivals organised by the faculty in this regard. The college also encourages its students to participate in scientific and cultural competitions held in Nineveh Governorate, where many students have achieved high rankings in all the events they participated in. In addition to sports, scientific and cultural activities, the students of the College of Pharmacy play a prominent role in serving the community by organising numerous volunteer teams that provide medical and pharmaceutical services and advice through direct meetings with different segments of society or through visual, written and audio media.

The First Annual Creativity Festival of the College of Pharmacy for the year 2019-2020



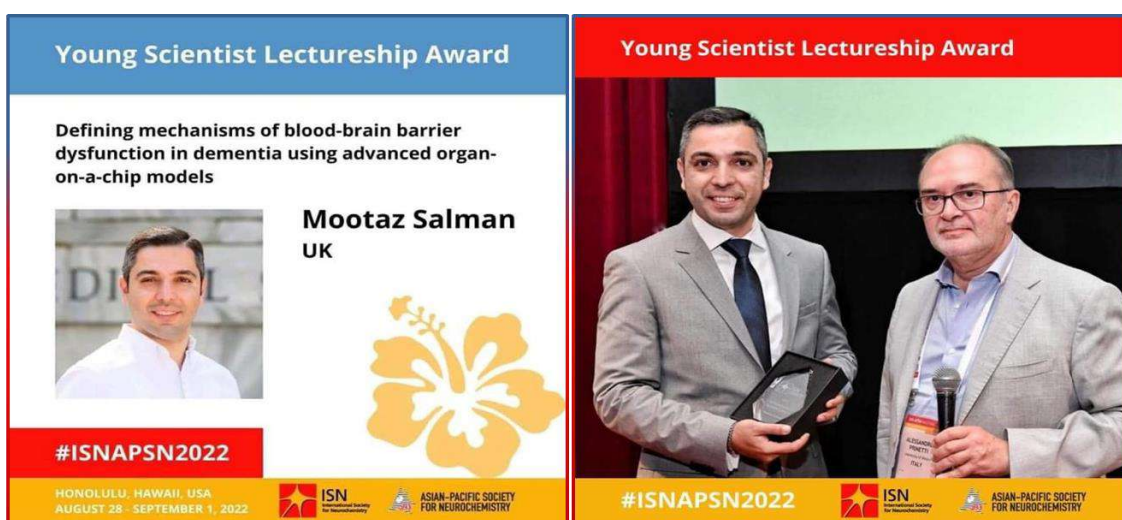
Scientific activities of the college



Asst. Prof. Dr. Karam Al-Dabbagh in a TV Interview Discusses the Latest Developments Regarding Vaccines Against the COVID-19



Asst. Prof. Dr. Myasar Alkotaji in a TV Interview Discusses the Latest Therapeutic Developments for COVID-19



Dr. Muataz M. Salman, a Faculty Member at the College of Pharmacy Who Leads a Research Team at Harvard and Oxford Universities, Receives the Award for Best Young Researcher in Neurochemistry at the European and American Level



Asst Prof Dr. Muhannad I. Al-Qazzaz Receives the Medal of Excellence and Creativity at the International Conference on Creativity and Excellence Held in Turkey



Asst Prof Dr. Fawaz A. Al-Assaf Receives the Warith Al-Anbiyaa University Award for Research Excellence

The number of patents obtained by the professors of the Faculty of Pharmacy across various specialties reached 25 patents.

Name	Number of Patents
Prof. Dr. Raad Abdul Jabbar Al-Bakua	1
Prof. Dr. Faris Thanoon Al-Abbaji	10
Asst. Prof. Dr. Nihad Abdul Wahab Al-Amri	3
Asst. Prof. Dr. Ahlam Ahmed Kheir Allah	1
Asst. Prof. Dr. Omar Abdul Hakim Hamed	1
Lecturer Dr. Thamer Abdul Jabbar Omar	3
Lecturer Dr. Nagham Mohammed Zaki	1
Lecturer Amna Muzaffar Anwar	1
Asst. Lecturer Zahraa Hussein Ali	1
Asst. Lecturer Shahad Salah Al-Din Mohammed	1
Asst. Lecturer Amal Fakhr Al-Din Hamed	1

Extracurricular activities and the college's role in community service

Believing in the university's role in developing and advancing society, and as part of the Faculty of Pharmacy's mission to contribute to community service, the Faculty of Pharmacy plays a role in building community service with the participation of all its members, starting with its dean, through its teaching staff, to the students studying there. Each year, the faculty conducts a series of community service activities of various types, including, but not limited to, providing grants to local hospitals in Mosul with health care supplies, as well as visiting wards of patients with chronic diseases such as cancer patients, thalassaemia patients, intensive care units, and children's wards.

In this context, the College of Pharmacy participates in numerous community service activities such as blood donation campaigns, donations of medicines and medical supplies, as well as awareness campaigns about infectious diseases and the misuse of antibiotics. The College of Pharmacy also organises field practises regularly in the villages and districts of Nineveh Governorate to provide medical and pharmaceutical consultations, raise health awareness, and assist

rural and village residents in overcoming various health problems. In addition, the pharmacy staff frequently visit schools and kindergartens in the governorate to promote pharmaceutical culture and provide the necessary health and material support. Moreover, social media and other communication channels, both audio and written, including television interviews and radio broadcasts, are used in health awareness and pharmaceutical education campaigns.

- **Visiting the thalassemia ward at Ibn Al-Atheer Hospital with the participation of the Dopamine Student Volunteer Pharmacy Team**

- **Field visits and practical activities to provide treatments and health guidance**

- **Tree planting campaigns**

As part of the approach adopted by the College of Pharmacy in serving the community and providing support and assistance to all governmental and service departments, and under the direct sponsorship of the University of Mosul Presidency, several tree planting campaigns have been launched at the College of Pharmacy since its establishment until now with the participation of professors, staff, and students of the college, aiming to create green spaces that contribute to improving the local environment, reducing temperature rise, and creating belts of trees and plants to mitigate the effects of dust storms and desertification. Among the most prominent of these campaigns is participation in the Million Tree Planting Project according to the administrative orders issued by the College of Pharmacy numbered 1383 on 28/12/2020 and the administrative orders from 711-716 on 20/4/2022, in addition to participation in all seasonal tree planting campaigns launched by the University of Mosul Presidency throughout the year.



The classes that graduated from the College of Pharmacy from 1968-1969 until 2023-2024

Year of Graduation	Alumni No.	Graduate cycle
1969-1968	18	1
1970-1969	24	2
The period of the college closure, which lasted from 1970 to 1992, represents the reopening.		
1997-1996	39	3
1998-1997	41	4
1999-1998	37	5
2000-1999	68	6
2001-2000	84	7
2002-2001	75	8
2003-2002	78	9
2004-2003	63	10
2005-2004	57	11
2006-2005	63	12
2007-2006	114	13
2008-2007	102	14
2009-2008	65	15
2010-2009	76	16
2011-2010	84	17
2012-2011	97	18
2013-2012	90	19
2014-2013	98	20
2015-2014	44	21
2016-2015	79	22
2017-2016	65	23
2018-2017	103	24
2019-2018	112	25
2020-2019	128	26
2021-2020	148	27
2022-2021	283	28
2023-2022	260	29
2024-2023	366	30

The top students of the Faculty of Pharmacy since its establishment

No.	First Student	Academic Year
1	Ahmed Mohammed Sultan	1968-1969
2	Hanaa Salem Al-Sumaidai	1969-1970
3	Khaled Walid Ismail Amin	1996-1997
4	Zeina Abdul Munim Abdul Majeed	1997-1998
5	Shaima Diaa MohammedSheet	1998-1999
6	Aliyaa Azhar Muhi Al-Din Thanoon Al-Mashhadani	1999-2000
7	Asmaa Mohsen Khalil Hassan Al-Anzi	2000-2001
8	Mohammed Ali Mohsen Younis Ahmed Al-Salu	2001-2002
9	Mahmoud Hashem Mahmoud Jasim Al-Rifai	2002-2003
10	Rana Jinan Nasser Ablahad Matloub	2003-2004
11	Muhannad Imad Muhi Al-Din Hassan Al-Qazzaz	2004-2005
12	Othman Ahmed Othman Mohammed Al-Bajaji	2005-2006
13	Iman Abdullah Suleiman Abdullah Al-Abbasi	2006-2007
14	Lama Muayad Saadallah Khalil Al-Obaidi	2007-2008
15	Raghad Riyadh Khalil Dawood	2008-2009
16	Noor Saad Mahmoud Al-Obaidi	2009-2010
17	Noura Thamer Abdul Aziz Yousif Al-Dabbagh	2010-2011
18	Shahad Muyassar Nayef Mohammed Al-Faris	2011-2012
19	Farah Ramzi Nouri Abdullah Al-Bayati	2012-2013
20	Rahma Saad Al-Din Mohammed Ahmed	2013-2014
21	Hala Haitham Abdullah Jarjis Al-Dulaimi	2014-2015
22	Nameer Mazen Zaki Othman Al-Qaddo	2015-2016
23	Muthanna Kanaan Zaki	2016-2017
24	Khalil Amjad Khalil Said Hadeed	2017-2018
25	Amna Maher Tawfiq Majeed Al-Karkaji	2018-2019
26	Amna Khalaf Rashid Jadou Al-Ataallah	2019-2020
27	Batool Ibrahim Mahmoud Issa Al-Jubouri	2020-2021
28		2021-2022
29		2022-2023
30		2023-2024

Research conducted at the college

Scientific research is considered the most important tool for understanding the facts of the universe, humanity, and life. It allows the researcher to rely on themselves in acquiring information, enables them to explore various methods and choose the best among them, and shapes the researcher into a distinct individual in terms of thinking, behaviour, discipline, and initiative in reaching new facts, providing practical solutions to problems, and increasing the knowledge gained for humanity. The progress of nations is directly proportional to the development of scientific research and the attention given to it.

Therefore, one of the top priorities of the teaching staff at the College of Pharmacy / University of Mosul has been focusing on the research aspect to achieve the aforementioned objectives. Everyone recognises that the foundation of a university's scientific progress and its entry into global rankings is scientific research, in addition to education, international outlook, citations, knowledge transfer, and other evaluation criteria. Accordingly, our college has recently witnessed a significant research revolution, utilising the available resources within the college and university, as well as the researchers' personal capabilities, especially for research published in Scopus and Clarivate indexed journals, which sometimes require procuring work and chemicals from abroad. These efforts were collaborative, involving both PhD and Master's degree holders.

The matter went even further to include holders of bachelor's degrees in various pharmaceutical and medical specialisations, in addition to supporting disciplines within the faculty. This resulted in the completion of 750 scientific research papers in more than 20 different specialisations by our current faculty staff up to the time this guide was prepared. These research papers are distributed among 177 papers published in local journals, 168 papers published in international journals, some with an impact factor, and 405 papers published in Scopus and Clarivate indexed journals, along with a large number of research projects

currently in progress and recorded in the branch council and faculty council minutes, which are expected to be published soon, God willing, to be added to the scientific output of our esteemed faculty.

Graduation Project Guide for Pharmacy College Students

One of the main requirements for pharmacy students to graduate and obtain a bachelor's degree is to complete a graduation project as part of encouraging the student to conduct research to make a scientific contribution through focusing on reviewing scientific articles, conducting laboratory experiments, and collecting data using their academic knowledge gained over the five years of study and the university and faculty's capabilities in terms of providing resources and laboratories, under the supervision of the teaching staff. Students are allowed to register for the graduation research in their final year, which is considered a fundamental requirement for graduation, and the timeline for completing and submitting research is determined by the faculty council. A supervisor from the teaching staff is assigned to a group of students, the number of which varies depending on the availability of supervisors and the number of students at the stage, and the supervising professor is responsible for:

- Present a range of research-applicable topics to the students.
- Provide the necessary guidance, which includes offering advice, assistance in planning, preparing, developing, and completing the project within the allocated period.
- Coordinate collaboration with departments and institutions inside and outside the university for students conducting external research if required.
- Arrange regular meetings with the student.
- Discuss any difficulties the student may face during the project work and work to overcome them.
- Monitor the student's progress, and if the student fails to make any progress, the supervising professor and the student should meet to address the issue and take the necessary actions.
- Review all required forms related to the project and sign them.

- Providing guidance to the student on academic research standards, advising on early coordination with the library to review all printed references and sources related to the research, educating the student on how to search for sources online, and highlighting the need for statistical analysis of final results while emphasizing academic honesty in scientific citation from references. Each student or group also has several responsibilities, which are as follows: - Submitting a weekly report to the supervisor indicating the progress of the research work, the completed stage, and any obstacles faced by the students so that they can be discussed and overcome through the advice and guidance provided by the supervisor, in order to bring the project to its final form, which meets the recommended requirements for graduation research set by the college's central committee and aligns with the standards for writing scientific research published in reputable scientific journals. - Completing the research requirements within the specified time. - The final deadline for submitting research is determined by the Dean of the College and the central scientific committee, and no projects will be accepted after the specified deadline.

The graduation project is presented in written form after incorporating the recommended modifications from the supervising advisor to a committee of graduation research reviewers, composed of faculty members from various specialisations to accommodate the diverse academic backgrounds of the submitted research.

Instructions for Writing Graduation Research:-

The project should be submitted in printed form in Word format, with the font type Times New Roman, size 16 for main headings and size 14 for the body of the research.

- Line spacing should be 1.5.
- The research should not exceed 25 pages and the number of sources should preferably be no less than 30.

- The first page (title page) should include the research title, the name of the student or students, the supervisor's name, and the date.

The structure of the research is as follows:

1. Review article:

- Title page
- Acknowledgement
- List of contents
- List of figures
- list of tables
- list of abbreviations
- Introduction
- Conclusion
- References

2. Research article:

- Title page
- Acknowledgement
- List of contents
- List of figures
- list of tables
- list of abbreviations
- Abstract (background, method, result /conclusion)
- Chapter one: Introduction
 - The aim of the study
- Chapter two: Methodology (patients and methods)
- Chapter three: Results
 - Discussion
 - Conclusion
 - Recommendation

References are preferable be not less than 30 and they should be written using the Vancouver style

The graduation project is discussed with the examination committee following a PowerPoint presentation by the students and must include:

- The font used should be clear with consistent backgrounds.
- It should begin with the research title and the names of the participants.

- The presentation duration should be 15 minutes for delivery and 10-15 minutes for discussion and questions from the committee to enrich the research work.
- The content of the presentation should be divided to include: title, introduction, research problem, study objectives, materials and methods, results, discussion, conclusion, and scientific references. Evaluation and grading:
 - 25% is given by the supervising professor to assess the students' performance during the research period.
 - 75% is given by the examination committee

Center for Equivalency of Foreign Pharmacy Certificates

In its endeavor to provide services to the community and facilitate the equivalency exam for pharmacy degrees obtained outside Iraq, both theoretical and practical parts, the College of Pharmacy at the University of Mosul, in coordination with the University of Mosul and the College of Pharmacy at the University of Baghdad, has opened an examination center at the college. The first equivalency exam was conducted on the specified date, and to date, seven exams have been held with a total of 341 candidates. The equivalency committee comprises the individuals listed below:

Thamer A. Omar	Head
Baraa MA. Al-Dabbagh	Member
Seema M. Al-Haj Qasim	Member
Farah Ramzi	Member
Amnah K. Rasheed	Member
Naba M. Jasim	Member
Elaaf A. Ahmed	

The committee receives applications from candidates for the exam, requests the required documents, and verifies them according to the instructions from the Ministry of Higher Education and Scientific Research. After completing the registration of candidates for the exam, the committee supervises the exam, which is conducted uniformly across all examination centers in Iraq.

Required documents for the Pharmacy Degree Equivalency Exam:

- A colored original copy of the transcript for the degree to be equalized, certified by all relevant authorities.
- A colored copy of the wall certificate for the degree to be equalized, certified by all relevant authorities, with the original brought for verification.
- A colored copy of the preparatory certificate, certified, with the original brought for verification.

- Coloured copies of the civil status ID, nationality certificate (or unified national card), residence card and ration card.
- Legal undertakings (from the Ministry of Higher Education and Scientific Research website).

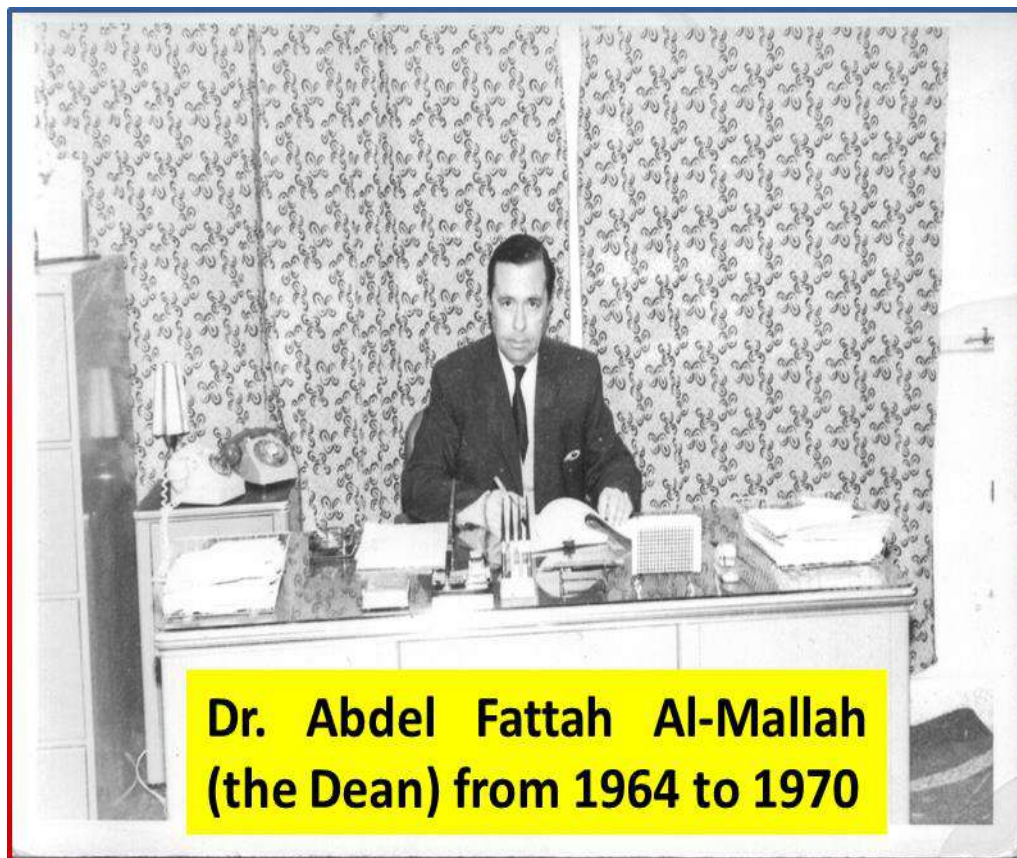
<https://scrediraq.gov.iq/index.php/2019-05-28-07-54-54>

- Electronic file form (from the Ministry of Higher Education and Scientific Research website)

<https://eform.scrediraq.gov.iq/index.php/form>

- Coloured copy of the Iraqi passport with all pages including the blank ones (all passports within the study period) with the original brought for verification.
- Coloured passport-size photograph (4 copies).
- The applicant must submit four copies of the documents (each copy in a separate red file), following the order above.
- A declaration of the authenticity of all documents and certificates submitted by the applicant for the equivalency exam at the University of Mosul Presidency / Legal Department, otherwise the applicant is responsible for all legal procedures or delays in case of any deficiency in any of the above documents.
- Two CDs containing all the above requirements except points 6 and 5.

The College of Pharmacy in 1964 when it was first opened at the University of Mosul



Alumni Names graduated in 1969

No.	Name	No.	Name
1	Ahmed M Sultan	2	Abdul Ilah Khalil
3	Issam HM Al-Dabbagh	4	Hala A Al-Sayegh
5	Zuhair A Al-Sarraj	6	Khalida Safawi
7	Noel G Ajaj	8	Ophelia Daoud
9	Nabeel MJ Al-Nuaimi	10	Sana Mahmoud
11	Yasser MA Al-Nashif	12	Elise Elias
13	Aziz Al-Masudi	14	Nahla Sabih
15	Adnan Al-Khafaji	16	Batool Y Jabouri
17	Mohammed JS Al-Asadi	18	Jinan R Al-Mallah

Photos of student activities during the five years of this course with staff members

Pharmacy students' trip to the Nimrod area on 20/3/1966

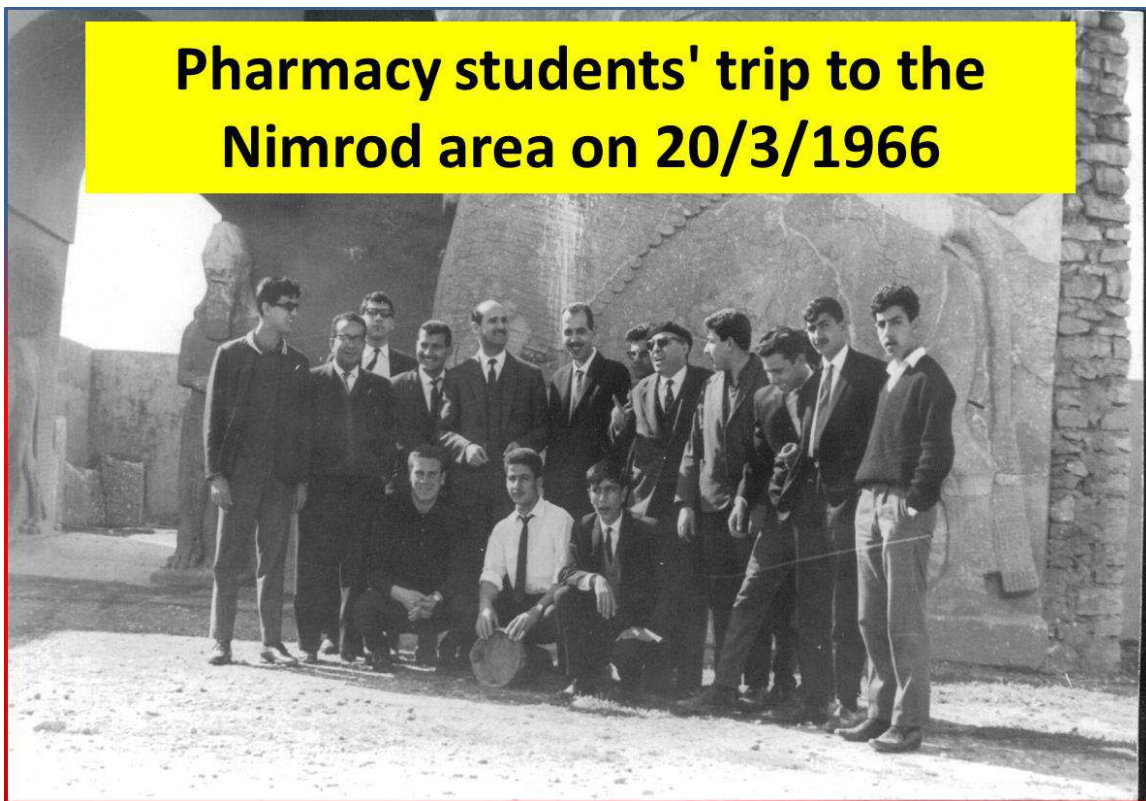
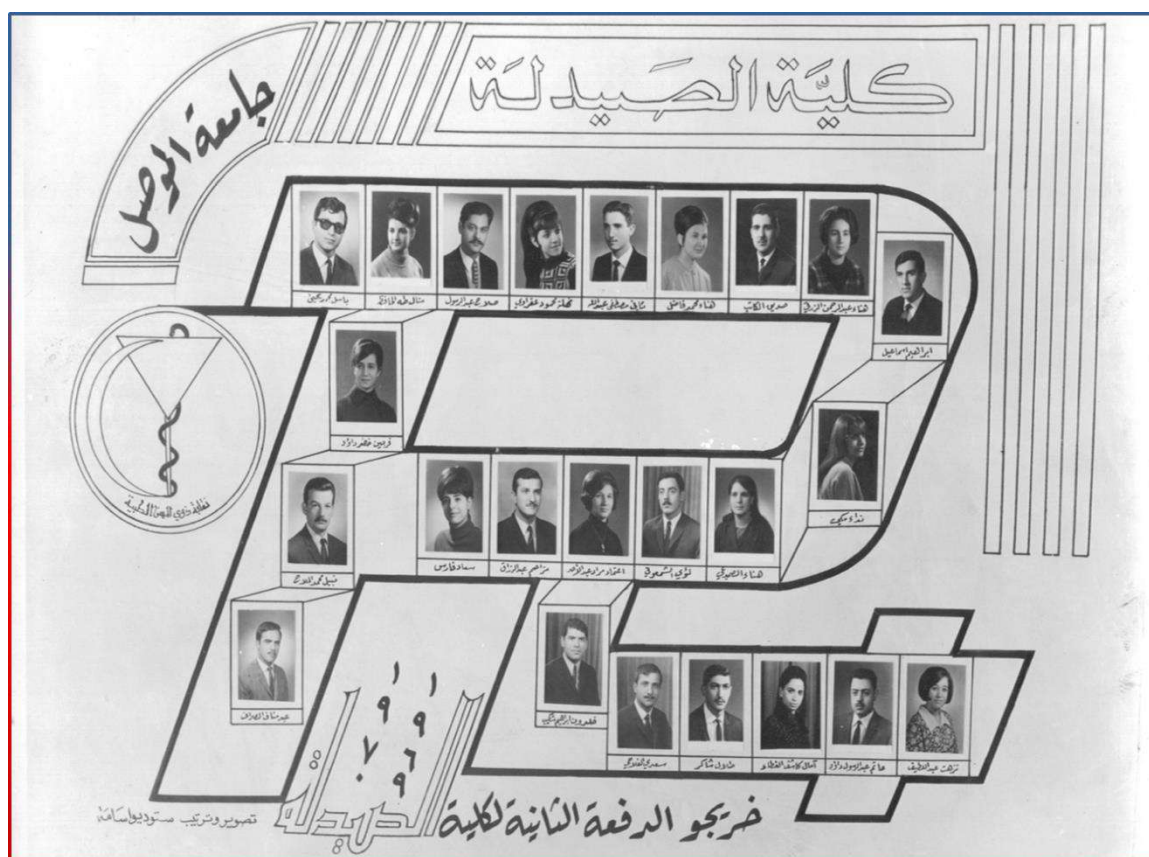


Photo of College Dean with the staff members



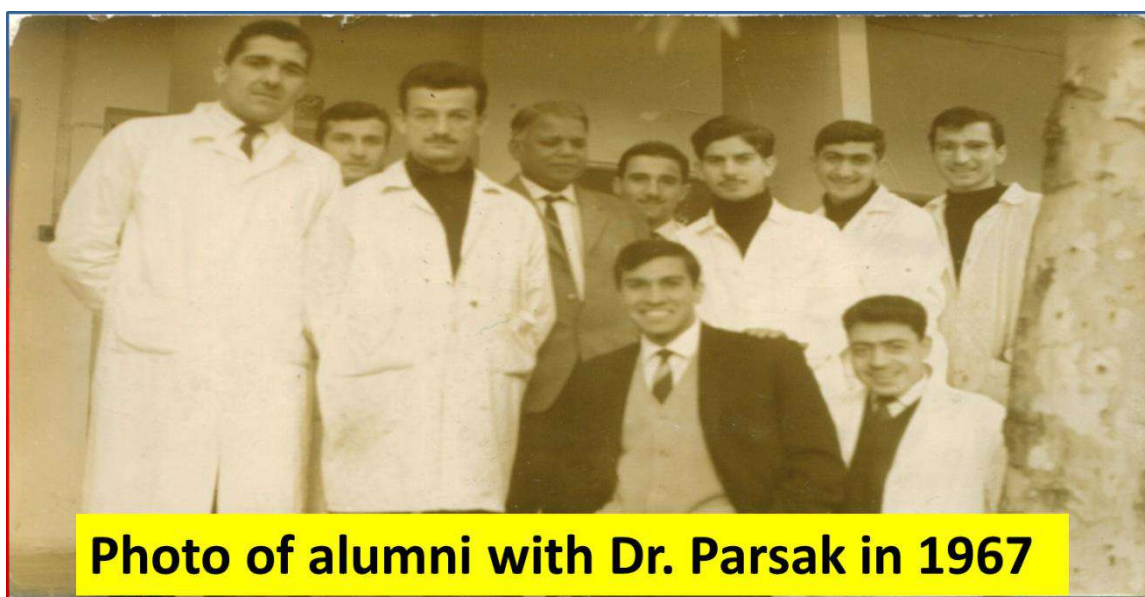
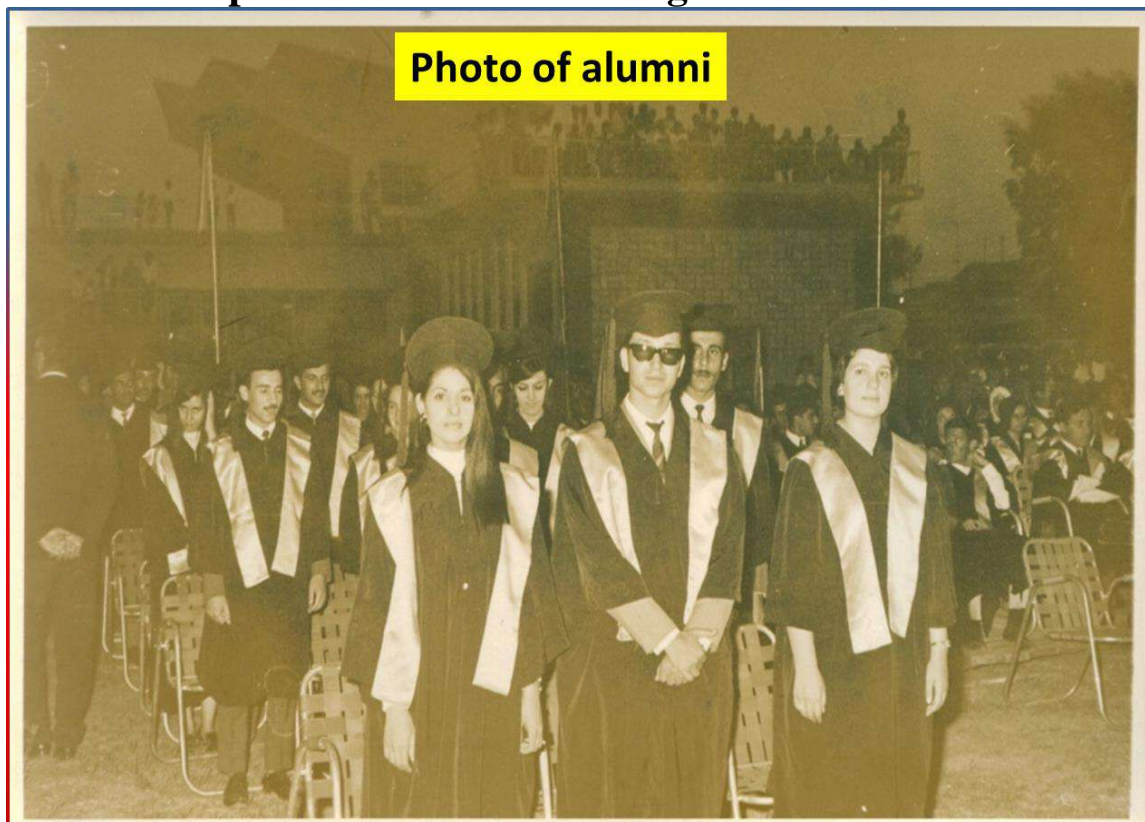
Alumni Names graduated in 1970

No.	Name	No.	Name
1	Hana S Al-Sumaidai	2	Hatem AR Daoud
3	Bassel M Yahya	4	Manal T Al-Hafez
5	Suad F Jasim	6	Luay A Al-Shamouni
7	Thani M Abdul Allah	8	Abdul M Sayed Ali
9	Hana A Al-Zarqi	10	Saadi Y Aboud
11	Nahla M Aqrawi	12	Salah AR Mohammed
13	Virgen K Daoud	14	Nazhat AL Al-Jubouri
15	Muzahim A Qasim	16	Nida M Abdul Wahab
17	Nabeel MA Al-Mallah	18	Ibrahim I Shahd
19	Hana M Fadil	20	Sadiq MA Al-Katib
21	Amal AMR Kashif Al-Ghita	22	Etimad MA Murad
23	Khaldoun I Shakeeb	24	Talal SA Mahmoud



An image of alumni of College of Pharmacy in 1970, letters R and X, refer to medical prescription

Some photos from the alumni graduated in 1970



Reopening of the College of Pharmacy in 1992

Dr. Raad Al-Bakoa (Dean of the College) with the President of the University of Mosul, Professor **Dr. Abdullah Al-Khashab**, and a group of guests and college professors



Dean and Staff members of the College of Pharmacy-1992

