



2023

**Kermanshah
University
of Medical Sciences**

is the home of innovation and entrepreneurship



**In the Name of Allah
The Most Beneficent
The Most Merciful**



2023

**Kermanshah
University
of Medical Sciences**

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WELCOME :

We are pleased to present the 2023 Kermanshah University of Medical Sciences Factbook.

This book provides basic information about Kermanshah University of Medical Sciences (KUMS) including its history, programs, faculties, students, staff, facilities and accommodation. The information was updated from reliable sources in January 2023.

Various university disciplines partnered with us in collecting and presenting this information. You'll find general and detailed information about the university and its departments and related activities in the following website. This comprehends information about the university, research, and education. For more information please contact the office of Global Strategies and International Affairs.

We wish to extend our sincere thanks to everyone who helped us compile the material included in this edition of KUMS Factbook.

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“KUMS 2023

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Message from the Chancellor :



It gives me immense pleasure to welcome you to the academic world of Kermanshah University of Medical Sciences (KUMS). KUMS is one of the leading medical universities in the west part of Iran, and in the Middle East. It is also one of the largest centers for medical training and research in Iran with one of the highest densities of clinical facilities for patient care, basic science, and translational research. We are committed to ensuring excellence in academic achievements and innovative research as well as the promotion of health status of people in the society.

KUMS actively collaborates with other countries around the world and provides a fascinating study and work environment by which offers you beneficial effects on both research and social life. Being a member of the national health system and in line with the national health policies, KUMS aims to develop and maintain appropriate structural and managerial models and procedures within the national health system, to participate in publication of renowned scientific resources and contribute to the promotion of science at national and international levels. Our university is dedicated to providing all students with an engaging environment and a supportive campus culture. We are a family that nurtures diversity, inclusion and respect.

Ghobad Mohammadi, PharmD, Ph.D
Chancellor, KUMS

The city of Kermanshah is the capital of Kermanshah Province, located in the western part of Iran. Kermanshah is the largest and central city in the west with a population about one million people. Kermanshah developed in the 4th century AD under the patronage of the Sassanid. The city is situated on the foothills of the Zagros mountain range, 525 km south-west of Tehran. It has many natural and historical sights in the city and the towns around. The city enjoys a temperate climate and regular seasons. People of Kermanshah are warm and friendly. The languages spoken in this city are Kurdish and Farsi. Beautiful nature, together with its people's dialects and their spiritual and religious characters make the province substantially unique in the region. Kermanshah has a rich history of culture and civilization, possessing monuments illustrating its people's values for life and humanity throughout historic and prehistoric periods.

Kermanshah province is sub-divided into fourteen counties listed below:

Dālāhū

Eslāmābād-e Gharb

Gīlān-e Gharb

Harsīn

Javānrūd

Kangāvar

Kermānshāh

Pāveh

Qaṣr-e Shīrīn

Ravānsar

Şahneh

Sarpol-e Zahab

Sonqor

Salas-e Babajani

About Kermanshah



About KUMS

Kermanshah University of **Medical Sciences**



was inaugurated as the Nursing High School in 1968, and became the medical college in 1975. After the Islamic Revolution, it was further developed into the Medical University in 1985. The University has 492 academic staff and 6037 students studying at all levels of medical fields at its faculties, and doing their practical training and placement in Teaching Hospitals, and prepare them for the demands of today's and tomorrow's job market.

The university regulates and coordinates the activities of medical education, training and research in healthcare profession throughout Kermanshah Province. In addition to teaching and treatment, it has also been dealing with such areas as research and innovations in order to improve allied health sciences. Among the countless research activities, the university mainly focuses on higher research programs in Basic Medical Sciences, Allied Health Sciences and Nursing. The university also serves the recent scientific and technological leap in the country and promotes the public health by means of scientific strategies and measures.



KUMS greets people from all over the world, providing historical and general information about campus to visitors and the public. This university has Seven Vice-Chancellors, nine faculties (**Table 1**), and seventeen hospitals. Eight of

these hospitals are in Kermanshah, and the others are located in its towns as follows: Islam Abad, Paveh, Javanroud, Sarpole' Zohab, Sonqor, Sahneh, Qasre-Shirin, Kangavar, Gilan Qarb and Harsin.

Based on the vote of 222th meeting of the Development Council of Universities of Medical Sciences on March 18, 2013, Kermanshah University of Medical Sciences was promoted to type I university. It was also recognized as the national pole of community-oriented medicine at the same year. Moreover, the educational management of KUMS ranked first in the latest educational ranking of universities (RAD plan). Furthermore, in the overall educational ranking of universities in 2011, KUMS ranked first among the universities in the west of Iran. Accordingly, it ranked sixth in the domain of qualitative development of education among universities in Iran. Moreover, it ranked 200-300 in Shanghi Ranking.

KUMS academic staff are engaged with teaching and research to push the boundaries of human knowledge.

Faculties	Date of Establishment	Number of Academic Staff	Number of Programs	Number of Students (2023)
Medicine	1975	309	50	2498
Pharmacy	2002	36	5	487
Dentistry	2008	48	8	566
Nursing & Midwifery	1965	36	13	887
Allied Health Sciences	2008	37	15	868
Public Health	1997	38	37	397
Nutritional Sciences & Food Technology	2018	11	10	137
Rehabilitation Sciences	2020	10	3	99
Nursing (Sonqor)	2013	5	1	102

The Organizational Mission Statement

KUMS aims at encouraging research and training scholars who excel in their field of study and to promote learning and research, and to develop leaders who improve the future of our global society in many disciplines. It is also committed to bring a qualitative and quantitative revolution in medical education by providing an environment geared towards promoting research and academic culture in order to improve the existing healthcare system.

We are committed to provide transformational experiences for students and faculties in an inclusive and collaborative environment where creative scholars generate bold ideas, innovate in the face of complex challenges, and distinguish themselves as active citizens of the world. It combines the academic excellence of a major research university with the practical experiences of an institution whose history, location, and diversity make it a microcosm of the world where students will enter when they graduate.

Our Goals:

KUMS strategic vision has been generated from five specific goals, articulating its aspirations and providing a framework for pursuing excellence in scholarship, research, and community enrichment.

KUMS has pledged to:

- anticipate, understand, and prepare for the future of higher education.
- promote students' success.
- strengthen the research enterprises.
- develop a sustainable revenue model to allow a constant growth and improvement.
- improve community's involvement.

Vision:

Our vision is to represent a model public research university and train creative scholars across a broad range of disciplines that have a profound impact on one another, and subsequently the world. To fulfill this aim, KUMS is to accomplish the following goals to benefit the students, society, country and ultimately the world:

- Acquiring the required capabilities in rendering higher educational services to promote academic status regionally as well as internationally.
- Having an active role in documenting our achievements and production of science, research, and publishing scientific articles in the international journals.
- Improving the health status of individuals in the society by meeting their health needs and obtaining the required technology for producing strategic medical supplies, and enhancing the quality and the diversity of the sub-specialized health care services.

Main Aims and Duties

Aims:

- Providing knowledge, experience, and multicultural perspective that allow you to explore, learn, question, create, and thrive as productive members of a global society in your chosen careers.
- Developing talents through scientific teaching and research and prevailing medical and allied sciences in order to help equip and supply specialist workforce needed for the country.
- Establishing research facilities in order to recognize unknown potential factors and to increase scientific strength to deal with health problems.
- Developing health facilities in the society through treatment centers and organizations and their related health care centers.

Duties:

- Training students in different areas of Allied Health Sciences and developing community-based medical education.
- Establishing relationships with other universities and exchanging academic staff and students with universities inside the country and overseas.
- Holding scientific and educational seminars and conferences.

- Writing and translating books and publishing journals in different areas of medical sciences.
- Attempting to perform general policies of the Ministry of Health and Medical Education and supervising those attempts to provide public health and improving it through the application of health programs, especially in the following domains of environmental health and fighting against diseases, family and school health, teaching public health and occupational health while emphasizing public healthcare measures especially with regard to “mothers and children”.
- Guiding and briefing authorities involved in planning when preparing plans and programs for subunits, integrating and coordinating programs with regard to priorities.
- Supervising demographical studies and analyzing the resulting statistics related to health programs in order to become aware of the quality and quantity of health activities.

Core Values

Collaboration:

Kermanshah University of Medical Sciences contributes to the advancement of society by building a partnership with students, business and industry, government bodies, accrediting agencies, and the communities which the university serves.

Diversity:

By providing a campus, which is supportive, safe, and welcoming, KUMS embraces a diversity of ideas, beliefs, and cultures.

Ethical Community:

KUMS recognizes the inherent dignity of each member of the university and treats everyone with respect. Our actions are guided by fairness, honesty, integrity regardless of race, religion, and gender.

Excellence:

Committed to innovation and creativity, KUMS strives to produce high quality outcome in all its endeavors.

Learning:

KUMS values education that is career-oriented, balances theory and practice, develops critical thinking, emphasizes active learning, and fosters responsibility and the desire for the lifelong pursuit of knowledge.

Opportunity:

Focusing on developing career skills and knowledge, KUMS provides opportunities for community involvement, leadership development, advancement, and success.

KUMS Capabilities

KUMS has prominent capabilities and characteristics including:

- The presence of all branches of medical specialty training in the university.
- The activities of Imam Reza (AS) Hospital as the top hospital in west part of Iran with the highest evaluation rank in Iran.
- The activities of cardiology and cardiovascular surgery center in Imam Ali (AS) Hospital.
- The activities of Kidney Transplant Center.
- Conducting an educational program for nurses to provide coverage for the western part of Iran.
- A major trauma center located in Taleghani Hospital equipped and staffed to provide care for patients suffering from major traumatic injuries such as falls, motor vehicle collisions, or gunshot wounds.
- Our departments and centers are equipped with “state-of-the art” technology.



KUMS Global Strategies and International Affairs (GSIA)

As one of the largest medical sciences universities in Iran, KUMS undoubtedly has identified and realized the significance of moving toward the international realm of higher education. Our achievements and capabilities enable us to be evaluated by international criteria in higher education. Accordingly, the office of Global Strategies and International Affairs (GSIA) has tailored various frameworks and strategies to effectively enhance the international activities of KUMS.

KUMS has embarked upon an adventurous journey towards becoming a renowned international university. Meanwhile, we approach, take up, and tackle any challenges with care and accuracy. We have witnessed significant improvement and advances with regard to international development so far, and we are sincerely keen to carry on this trend in future. Internationalization has been an indispensable part of future development of KUMS and it has developed collaboration with several international institutes and universities.

To fulfill this aim, KUMS is engaged internationally in numerous activities regarding international and cross-border interactions such as student/scholar/staff mobility (both from and to KUMS), joint educational services with other universities and institutes of higher education, and last but not least, a cooperation with research joint ventures. Such interactions support KUMS to boost its international identity.

Admission and Registration Guidelines for International Students

Admission Requirements:

Applicants must meet the standards in each of the following areas:

- Complete specific high school coursework.
- Suitable grades in specified courses.
- Graduate from high school.

In order to complete your application and registration procedures, please follow the instructions below:

1. Complete the Online Application Form.

Requirements:

- The English transcript of your previous degree certification/license certified by Islamic Republic of Iran Embassy/Consulate.
- A passport size photo.
- A high quality scan of the main pages of your passport.
- Supplementary Information Form.

2. Reviewing process:

Once your application is complete, it will be reviewed and you will be informed of the result by the office of Global Strategies and International and Affairs (GSIA).

3. Admission Confirmation Letter:

If you receive an admission offer, your Admission Confirmation Letter will be issued by GSIA.

4. Applying for student visa:

To proceed with your student visa, please submit your documents in www.saorg.ir:8081.

Upon your request, the student visa will be issued by the Islamic Republic of Iran Embassy/Consulate in your own country. This process lasts 4 to 8 weeks at least.

5. Residence permit:

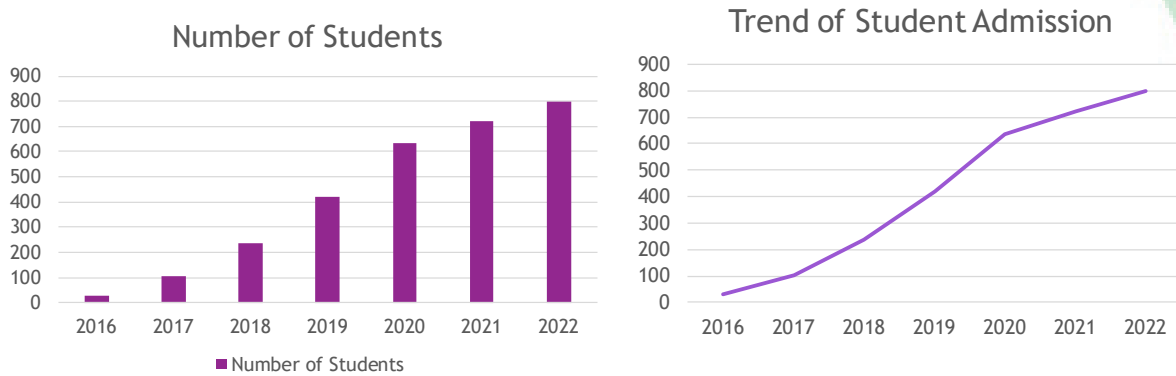
After your entry, a one-year residence permit will be issued by Foreign Students Affairs Organization (SAORG).

6. Student enrollment:

You are required to hand in the original English transcript of previous degree certification/license certified by Islamic Republic of Embassy/Consulate, original passport and Offer Letter, and passport-size photos (12 pcs) to GSIA office.

You will be introduced to the Vice Chancellor for Education accordingly. After submitting your original documents, your admission confirmation letter will be issued for the related faculty and finally you will be registered by the Education office of the faculty.

7. Students Admission Trend from 2016 to 2023:



Graduation Ceremony

KUMS holds a graduation ceremony annually with the presence of the authorities, professors, graduates and students. Graduates are presented with their diplomas by their professor, and had photo opportunities with their fellow alumni, family and friends.



“KUMS Vice chancellors

- **Vice Chancellor for Education**
- **Vice Chancellor for Research and Technology**
- **Vice Chancellor for Cultural & Student Affairs**
- **Vice Chancellor for Public Health**
- **Vice Chancellor for Food and Drug Administration**
- **Vice Chancellor for Resource Management Affairs**
- **Vice Chancellor for Clinical Affairs**

Vice Chancellor for Education

Vice Chancellor for Education in KUMS is responsible for policymaking, planning, controlling and directing academic affairs, monitoring the implementation of academic and educational regulations, deciding about educational affairs, enhancing the quality of education and conducting training courses and evaluating them.

Main Responsibilities:

- Preparing and offering different academic regulations in cooperation with the relevant authorities, offering principles for educational programs and monitoring their implementation after being approved.
- Evaluating students' progress and educational performances.
- Examining and deciding on academic affairs and planning curriculums and exams.
- Monitoring the implementation of educational and academic affairs through the office of Monitoring and Evaluation.

Vice Chancellor for Cultural & Student Affairs

Vice Chancellor for Student Affairs provides the welfare and needed facilities for the students of Kermanshah University of Medical Sciences. It is also responsible for giving cultural, sports, and counseling services to students. The ultimate goal of the Vice Chancellor for Student Affairs is to pave the way for the students to perfectly progress in their educational, cultural, and social lives.

In addition, The Office of Student Counseling, Student Disciplinary Committee, Public Relations,

IT, and Financial Affairs help the Vice Chancellor for Student Affairs to fulfill the tasks and reach the defined objectives.

Main Responsibilities:

- Careful supervision on the implementation of the activities of subordinate offices.
- Implementation of the policies set by the Student Affairs.
- Observing the articles of the Student Disciplinary Committee.
- Providing utilities and motivating students to participate actively in utilizing the facilities.
- Harmonizing welfare programs and student services to make them more useful.
- Attending seminars and conferences related to the Student Affairs.
- Giving constructive feedback to improve the quality of the coming programs.
- Providing and monitoring students' food according to the existing statistics.
- Devising a plan for monitoring and controlling the quality and quantity of the food served to students.
- Attempting to improve students' accommodation.
- Providing facilities for students living in dormitories.

Vice Chancellor for Research and Technology

Vice Chancellor for Research and Technology provides intensive and extensive research, health information and technology through three management units of research development and evaluation, health information development, and medical information and resources in order to promote scientific productivity and to generate knowledge. It supervises and supports

research activities of academic and non-academic staff and also manages research projects in its research centers. It is responsible for providing opportunities for research, supplying scientific resources, publishing scientific productions and expanding scientific ties with other academic institutions. Macro Policies are made in research and technology based on the existing documents.

Main Responsibilities:

- Establishing and developing research centres.
- Approving of research projects and monitoring their implementations.
- Empowering academic staff, researchers and entrepreneurs.
- Sending academic staff on sabbatical periods and to congresses and conferences abroad.
- Publishing books, establishing, developing, and enriching the university's scientific and academic journals.
- Encouraging researchers.
- Creating and developing small and medium technology- knowledge- based companies.
- Marketing academic research products.
- Interacting with industries and providing career opportunities for experts and creative individuals.
- Providing equipment, expert consultations, and suitable space for technologists and faculties to organize scientific and technological activities.
- Implementing necessary technical knowledge and investments.
- Approving knowledge-based projects.
- Selecting and providing electronic and printed specialized information resources.
- Training user (academic staff, students and staff) to access information resources more easily.
- Selective Dissemination of Information services (SDI) for academic staff via emails.
- Preparing reports related to the university's scientometrics and scientific productivity in valid databases such as ISI and Scopus.

Health Technology Center

• Main Responsibilities:

- Providing effective and needed services to technology units.
- Organizing the capabilities and facilities available to link the resources of the university with industries.
- Creating an appropriate atmosphere for scientific and engineering activities to attract national and international specialists.
- Encouraging research in order to achieve the technology of manufacturing new products and processes.

Department Of Medical Informatics and Scientific Resources

Main Responsibilities:

- Guiding and collaborating in the selection of the resources needed by users.
- Reviewing the teaching of researchers and students appropriate use of information resources.
- Investigating the scientific production of the university compared with other universities.
- Specifying the scientometric indices status of the university.
- Identifying the factors affecting the input and output of the faculties to provide the required strategies for improving them.

Student Research Committee

Main Responsibilities:

- Approving student-centered research projects.
- Accelerating the approval of the mentorship plans.
- Planning students participation in seminars and conferences.
- Holding research workshops and tours.

Vice Chancellor for Public Health

Vice Chancellor for Public Health provides healthcare and medical services for all people living in different parts of Kermanshah Province: including rural and urban areas. It also makes an effort to provide the health care services for the community as a whole. The main objective of the Vice Chancellor for Public Health is to provide, maintain, and promote the health status in the society. The whole community benefits from qualitative, effective and efficient health care services and evidence-based health management.

Main Responsibilities:

- Providing and sustaining finance for health care services.
- Minimizing out-of-pocket medical expenditure for people.
- Promoting accountability and increasing the satisfaction level of services for healthcare providers.
- Improving the quality of management, coordinating and monitoring the health care services.
- Improving the ability of directors, managers and employees with the optimum use of resources.
- Developing a comprehensive system of data management, information and communication.
- Increasing the capacity and creating a framework for conducting applied research.

Vice Chancellor for Food and Drug Administration

Vice Chancellor for Food and Drug Administration is responsible for protecting and promoting the public health by ensuring the safety, security, and quality of food, beverages, cosmetics and hygienic products, drugs, biological products, medical devices, herbal medicines and dietary supplements.

Main Responsibilities:

- Announcing and supervising the rules and regulations for companies which launch, distribute and preserve food, pharmaceutical and cosmetic products.
- Regulating and examining documents for launching, distributing and preserving food, pharmaceutical and cosmetic companies and related units in headquarters to address these issues in legal commissions.
- Monitoring and evaluating processes of packaging, labeling and advertising food, beverages, and cosmetic products.
 - Collecting, preserving, and examining the information, statistics and documents regarding pharmaceutical, food, beverages and cosmetic products.
 - Monitoring producers' implementation of the rules and regulations about supplementary additives and colors, and a constant control of products qualitatively and quantitatively.
 - Monitoring laboratories' implementation of the rules and regulations about controlling pharmaceutical, food and cosmetic products.
 - Monitoring manufactures' procedures for producing and distributing pharmaceutical, food, beverages and cosmetic products.
 - Monitoring pharmaceutical affairs.
 - Monitoring and assessing the activities of food and pharmaceutical laboratories.
 - Monitoring drug inventory based on the requirements of treatment units.
 - Monitoring requests for drug inventory and technical supervision of non-expired drugs;
 - Monitoring the preservation of certain drugs and narcotics.
 - Monitoring data collection regarding the annual consumption of different drugs for examining local and general disorders in order to report to research groups to investigate the onset of disorders etiologically and to take required preventive measures.

Vice Chancellor for Resource Management Affairs

Vice Chancellor for Resource Management Affairs (Logistics) employs the most efficient administrative sciences and management procedures, and it is responsible for the provision and development of human, physical and financial resources of the university. It also creates an environment of flexibility, efficiency, innovation, creativity, responsibility and commitment to support educational, research, health and treatment units in line with the goals of the university.

Vice Chancellor for Clinical Affairs

Vice Chancellor for Clinical Affairs (Hospitals & Clinics) is responsible for improving the quality of healthcare services and reducing the burden of disease, injuries, and accidents in the community under the coverage of the university to improve the quality of life. It is also in charge of planning, monitoring, and supervising health-related activities in secondary and tertiary health services for public and private sectors.

It works to ensure that healthcare services are safe, accessible, equitable, affordable and patient-centered, evidence-based and of high quality according to the standards of health care set by the Ministry of Health and Medical Education.

Main Responsibilities:

- Accrediting and supervising clinical services offered by hospitals and outpatients centers in the province.
- Accrediting clinical services offered by medical professional offices through assessment and granting license.

- Providing pre-hospital Emergency Medical Services (EMS), [Call: 115].
- Carrying out the principles of emergency and disaster preparedness and management via Emergency Operations Center (EOC).
- Conducting need assessment for resource allocation and participating in clinical services.
- Providing education and advisory services for quality improvement in clinical settings.
- Coordinating with other stakeholders to promote healthcare services.
- Coordinating and supervising applied clinical research.
- Conducting and implementing the Ministry of Health policies in the province.

KUMS

Faculties in KUMS

- Faculty of Medicine
- Faculty of Dentistry
- Faculty of Pharmacy
- Faculty of Public Health
- Faculty of Nursing and Midwifery
- Faculty of Allied Health Sciences
- Faculty of Nutrition and Food Technology
- Faculty of Rehabilitation Sciences
- Faculty of Nursing (Sonqor)

KUMS
Faculties in KUMS



Faculty of Medicine

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Tel: +(98-83) 34274618

Fax: +(98-83) 34276477

E-mail: Mcollege.kums.ac.ir

The Faculty of Medicine was founded in 1975. Currently, 1942 medical students are studying at this faculty and over 3878 medical students have graduated so far. The first specialist residency recruitment was started by admitting residents of Anesthesiology in 1991. Nowadays, KUMS is pledged to admit a total number of 141 medical specialties in all medical specialty fields per year. The university is well known for its ability to develop clinical skills in medical students through one of the nation's most robust standardized patient programs and partnerships with leading hospital systems.

Educational Status:

Currently, there are eleven basic sciences departments, eight departments in master programs, two departments in PhD programs, and twenty two clinical departments and nine master, two clinical programs at the Faculty of Medicine. The faculty of Medicine is home of 293 academic staff, **Table 3**.

The Faculty of Medicine has a mission to educate science-based, skilled, and compassionate clinicians prepared to meet the challenges of practicing medicine in the 21st century and conduct cutting-edge biomedical research that enhances people's life and advances the fundamental understanding of medical sciences.

Academic Staff	Number
Basic sciences	87
Clinical	206
Professor	17
Associate professor	79
Assistant professor	193
Instructor	3
Total	293

Major capabilities:

Major capabilities of faculty can be classified as follows:

1. Basic Sciences Departments:

- Cell culture laboratory.
- Administration of comprehensive basic sciences and internship exams.
- Center of PhD exam administration in the west of the country.
- Language laboratories.
- Genetic laboratory in the west of Iran for prenatal diagnosis (PND) referred from the four neighboring provinces in the west of the country.
- Three standard and highly equipped anatomy halls.
- Medical Biotechnology laboratories.

- Clean room facility.

2. Clinical Departments:

- The largest university hospital in the west of Iran (Imam Reza (AS) Hospital).
- Community-oriented medicine pole and administrator of one-month ambulatory care education and medical internship program.
- Active pediatric urology and endourology wards.
- Sub-specialized equipment like laser, laparoscope, adults and children endourology, Nocturnal Penile Tumescence (NPT) and Shock Wave Lithotripsy (SWL).
- Advanced laparoscopic and endoscopic surgeries such as repair of incisional/inguinal hernia, achalasia, VATS and sympathectomy.
- Advanced endovascular, cancer, and arthroscopic knee surgeries.
- Online PMP education in clinical departments.
- Administering residency promotion exams since 2006 and issuing specialized certificates since 2013.
- Creating the registry of various diseases such as IBD, MS, MI, etc.
- Presenting all relevant workshops for all students and residents.
- Administering clinical skills exams at the end of GP program.

Treatment Advantages:

- Center of bone marrow transplant in the west.
- Different diagnostic and therapeutic interventions of radiology and peripheral angiography.
- MDR-TB services.
- Healthcare center for HIV-positive patients with diagnostic facilities.
- Separate Emergency Departments at Imam Reza (AS) Hospital based on the specialized courses.
- The heart transplantation center for the first time in the west of Iran.
- Active center of IVF.
- Regional genetic reference laboratory.

- Eight specialized clinics of university (Mahdieh, Madar, Helal Ahmar, Taleqani, Imam Ali, Imam Khomeini, Farabi, Boustan, and Dr. Mohammad Kermanshahi) in different parts of the city.
- Specialized rehabilitation and cardiac rehabilitation centers.
- Cardiovascular and urinary tract interventions.
- Primary PCI.
- Neuroradiology and cardiac interventions.

Electronic Services:

- Mechanization of the education system of the faculty (online enrollment, etc.).
- Mechanization of the management of examinations (residency promotion comprehensive, basic sciences and pre-internship exams, etc.).
- Mechanization of the faculty administrative communication system (administrative automation, etc.).
- Electronic library.
- Virtual central laboratory.



Departments:

There are over 35 clinical and basic science departments and programs in the faculty of medicine, which are summarized in Table 4.

Anatomy	Medical Physics
Anesthesiology	Microbiology
Clinical Biochemistry	Mycology & Parasitology
Biomedical Engineering	Neurology
Cardiology	Neurosurgery
Clinical Psychology	Obstetrics & Gynecology
Dermatology	Ophthalmology
Emergency Medicine	Orthopedics
English Language	Pathology
E.N.T (Ear, Nose & Throat)	Pediatrics
General Surgery	Psychiatry
Health & Social Medicine	Physiology-Pharmacology
Immunology	Radiology
Infectious Disease	Radiotherapy & Oncology
Internal Medicine	Sports Medicine & Rehabilitation
Islamic Education	Alternative & Complementary Medicine
Marital Medicine	Urology
Medical Biotechnology	



Faculty of Dentistry

Address: Faculty of Dentistry, Shariati St., across from the Post Office, Kermanshah, Iran.

Post Code: 6713954658

Tel: + (98-83) 37222400

Fax: + (98-83) 8337227151

E-mail: dent_it@kums.ac.ir

Faculty of Dentistry as a professional educational institution offers a full range of academic courses, including comprehensive undergraduate and postgraduate programs in collaboration with highly experienced academic staff along with proper facilities and the most advanced teaching methods.

Background

Established in 2008, the faculty started admitting students in Doctor of Dental Surgery (DDS) in 2009. Also, students in Oral Health have been accepted at KUMS since 2015. In terms of infrastructure, the newly-established Faculty of Dentistry in KUMS's campus, with an area over 11500 square meters, is the largest faculty in west part of Iran which was opened in December 2019.

Educational status

The faculty of dentistry has forty six academic staff, working

in ten departments in which they have trained 417 students including 6 international residency students. Table 5 summarizes the academic staff of faculty based on their specialty.

Specialty	Number
Endodontics	4
Orthodontics	8
Oral and maxillofacial medicine	4
Periodontics	3
Dental prostheses	4
Restorative dentistry	6
Oral and maxillofacial surgery	4
Oral and maxillofacial radiology	1
Oral and maxillofacial Pathology	1
Pediatric dentistry	4
Total	39

Major Capabilities:

- In 2023, 60 students have graduated from the faculty.
- In most of the above mentioned specialty, a minimum of two students in this faculty have been ranked among the first top 10 students in the entrance exam.
- Its Students achieved the first rank in the Comprehensive Basic Science exams in all those exams administered in the west of Iran.
- Department of Orthodontics and Prosthodontics was established in 2018 in the Faculty of Dentistry.



Faculty of Pharmacy

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The Faculty of Pharmacy was established in 2001 and it began to admit pharmacy students since 2003 and offers a PharmD degree. This program is a six-year professional program consisting of coursework and practice experience. There are seven distinct departments including Pharmacology and Toxicology, Pharmaceutics, Pharmacognosy and Pharmaceutical Biotechnology, Traditional Pharmacy, Biopharmaceuticals and, Nano Technology Medicine. Each department has an important role in the faculty's educational and research programs. All of the departments are equipped with advanced and modern instrumentation which promote cutting-edge research and training at the faculty. There are twenty nine academic staff including seventeen assistant professors, eleven associate professors and one professor. Moreover, the Faculty of Pharmacy has two educational pharmacies where students learn practical aspects of the profession. Students also participate in some clinical programs at the university's educational hospitals to get familiar with some

pharmacotherapeutic management that is necessary for a pharmacist. The faculty also collaborates with other educational and research centers within the university such as teaching hospitals and research centers as well as pharmaceutical companies and community pharmacies outside the university. The faculty has a potential to cover a wide range of pharmaceutical related to research projects, such as drug discovery, drug design and synthesis, in vitro and in vivo pharmacology and toxicology tests. It also designs different drug delivery formulations, pharmacokinetic studies and performs clinical trials on drugs. It is equipped with 8 specialized research laboratories, one herbarium, and a special warehouse for the storage of hazardous chemicals.

Major Capabilities

The faculty has a research center for pharmaceutical sciences and two educational pharmacies. The educational pharmacies are the most important centers for supplying special drugs in the west of Iran. In addition to providing provincial services, they provide services to people from neighboring Provinces, including Hamadan, Kurdistan, Ilam, and Lorestan. The faculty of pharmacy enjoys a high level of educational and internship services for students thanks to these two pharmacies.

Instrumentation and Facilities

- Tissue engineering laboratory, the first research laboratory of pharmaceutics department in faculty of pharmacy equipped with cell culture and measurement of physical and mechanical properties of tissues.
- The first microfluidic laboratory among the faculties of pharmacy in Iran, equipped with photolithography and eyeliner and capable of producing polymer and metal microchips.
- Laboratory of solids and semi-solids and industrial pill production machine.
- The faculty provides access to state-of-the art technology, equipment and expertise to the researchers.
- Molecular modeling laboratory, is one of the prominent laboratory in west of Iran. This lab equipped with a kind of computer in that variety of molecular modeling techniques such as docking, QSAR, simulation of molecular dynamic, etc can be carried out.

Nano center: Some of the valuable objectives of this center are as follows: electrospinning, synthesis of nanoparticles and polymers, nano drug delivery, gene therapy, nanobiocatalysts, studying the interaction of nano and bio.



Faculty of Public Health

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Founded in 1997, Faculty of Public Health started to work independently in 2007, with four departments including family health and health services in associate program, environment health, occupational health in associate and discontinuous bachelor programs. It currently has 397 students and 34 academic staff (**Table 6**), and offers education opportunities via the departments of Environmental Health Engineering, Public Health, Occupational Health Engineering, Statistics and Epidemiology, and Health Education and Promotion. It has also several dedicated laboratories equipped with various state-of-art instruments listed below:

- Chemistry
- Microbiology
- Environmental health research
- Occupational health
- Chemical pesticides
- Leftover
- Hydraulic
- Designing workshop
- Practice unit

Academic titles	Number of faculties
Professor	5
Associate professor	6
Assistant professor	21
Instructor	2
Total	34

Below is the list of all undergraduate and postgraduate fields of study which are offered by the faculty of Public Health.

No	Program	Level	Establishment year
1	Occupational Health	B.Sc. & M.Sc.	1997
2	Environmental Health	B.Sc., M.Sc. & Ph.D.	1997
3	Public Health	B.Sc.	2009
4	Biostatistics	M.Sc. & Ph.D.	2011
5	Health education & Promotion	M.Sc.	2015
6	Epidemiology	M.Sc. & Ph.D.	2015

Major Facilities:

- Integrating laboratories into a research and reference laboratory.
- Reconstructing, promoting and optimizing the Wastewater Treatment Plant of the Faculty of Health and Farabi hospital to reuse irrigation and restoration of green space.
- Establishing the first open access library at the Faculty of Health.
- Establishing the research center for environmental determinants of Health.
- Establishing Media Lab Special Internet Site for postgraduate students.

Other Capabilities and Accomplishments

- Fellowship training center for empowering health managers with the cooperation of the Faculty of Health (fellowship training center in west).
- Healthcare surveillance center for death of 1-59-month children with the cooperation of the faculties of medicine and the department of pediatrics (Kurdistan, Hamadan, Ilam and Lorestan Provinces).
- Launching Journal of IJHLS at the Faculty of Health.
- KUMS was selected as the head of the region four of neonates (Kermanshah, Kurdistan, Ilam and Hamadan Provinces) in prenatal healthcare programs with the cooperation of the faculty of medicine, departments of pediatrics and gynecology.
- KUMS and Razi University were selected as a regional center of Training of Trainer (TOT) program for students.

Goals

The faculty intends to offer its services in regional and national levels in cooperation with competent and experienced professors in the fields of research and education and enhances qualitative and quantitative development of educational department, specialized laboratories, research centers, and development of new methods in two dimensions of research and education. Likewise, it aims to train competent students in order to provide health care professionals, and to take effective steps in achieving fundamental solutions to solve the problems of the province. In next five years, the faculty is going to represent itself as the most prestigious research and educational center in west and to stand out among research and educational centers inside and outside the country.

Achievements and top rankings:

- The 1st rank in the implementation of healthcare monitoring system for the death of 1-59-month children in the region (Ilam, Kurdistan, Lorestan, Hamadan, Kermanshah Provinces).
- Top university in the prevention and registration management of water- and food-borne diseases.
- The 3rd rank in the inspection coverage of facilities on the road and destruction of spoiled food.
- Top rank in health inspection coverage of healthy nutrition base of faculties.
- Earning appreciation from the healthcare center of environment and work for quantification of the burden of diseases from ambient air pollution.
- Reference laboratory in the west.
- Electronic health files in the form of an agreement with Barakat Tel in all cities (since 2013 for three years).
- Electronic health file project and healthcare services call center (Paveh project);
- Constructed, equipped and administered the regional reference inpatient department of drug-resistance tuberculosis in the west.
- Launching tuberculosis antibiogram department with the cooperation of the microbiology department in the west in 2012.
- Taking the license of conducting tuberculosis antibiogram tests from Sweden transnational laboratory, professor Hafner for regional reference laboratory of tuberculosis in collaboration with microbiology department in 2014.
- Launching influenza subnational laboratory in collaboration with the microbiology department in 2011.
- Launching the department of GeneXpert tuberculosis diagnosis in cooperation with microbiology department.
- Launching HIV molecular diagnosis center in collaboration with microbiology, pathology and infectious departments.
- Launching STI molecular diagnosis department for suspicious cases of sexually transmitted diseases in the province and universities under coverage in cooperation with microbiology and infectious departments in 2017.
- Launching the department of tuberculosis molecular diagnosis (PCR) at regional reference laboratory of tuberculosis in cooperation with microbiology department in 2017.
- Settlement of health village project in Kermanshah province, administered simultaneously in

fourteen cities.

- Launching hospital clinics of smoking cessation counseling at teaching hospitals.
- The deputy of health in KUMS was selected as region 6 in the national program of harmonization of training and health promotion courses (HODA).
- Administrating of joint research projects with the United Nations Children's Fund (UNICEF) on children's growth and nutrition in 2011.
- Administrating of safe society plan according to the WHO standards since 2005 in Sonqor.
- Equipping negative pressure respiratory isolation room at Imam Reza (AS) Hospital, and Shohada Hospitals, Sarpol-e-Zahab for intensive healthcare control of communicable diseases, with an excellent rating (according to the evaluation and monitoring of the WHO expert team in July 2014. Negative pressure respiratory isolation room was approved with an excellent rating.
- Administrating the prevention of mother-to-child transmission (PMTCT) of HIV program in thirteen centers in Kermanshah province in cooperation with the department of infectious diseases since 2013.





Faculty of Nursing and Midwifery is one of the oldest faculties in Iran that started its activity in 1965 as the Academy of Nursing. This faculty has been known as the Faculty of Nursing, Midwifery, and Paramedical sciences since 1985. In 2007, paramedical departments started to work independently under the name of the Faculty of Allied Health Sciences. Now, Nursing and Midwifery Faculty trains undergraduate and postgraduate students in the fields of nursing and midwifery and offers bachelor and master degrees. It currently has thirty five academic staff, including associate professors, assistant professors, mentors and PhD students working in three departments (**Table 8**) to educate 887 students.

The faculty is committed to provide an exceptional nursing education and conducting innovative research which helps build a scientific foundation for clinical practices, advance

Faculty of Nursing and Midwifery

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preventive care, manage symptoms of illness, enhance end-of-life and palliative care, and influence the development of health care policy at all levels. It is particularly concerned with reducing health disparities and improving health outcomes among the population.

Students in the faculty of Nursing and Midwifery are passionate to make a positive difference in people’s lives. They choose KUMS because they want to access outstanding research centers and clinical training, the latest high-tech simulation equipment, and a curriculum that prepares them for leadership in their profession.

Midwifery is a sub-field of the healthcare professions that deals with providing services for pregnant women, new mothers and their infants. The program objectives focus on the following components of midwifery care: professional responsibilities, midwifery management process, primary health care, the childbearing family- including: pregnancy, childbirth, postpartum period, care of the newborn- and the family planning and gynecologic needs of women. The focus of our program is to prepare the next generation of nurse-midwives capable of leading positive change and providing the primary care needs of essentially healthy women across their lifespan, along with the care of normal newborns. Our faculty bring their diverse national and international leadership, research, and clinical experience into the classroom to advance the future of midwifery care and education.

Table 8: Academic staff of Faculty of Nursing and Midwifery in different departments

No	Departments	Number of faculty members
1	Internal Surgery Nursing	7
2	Intensive Care and Emergency Nursing	7
3	Pediatric Nursing	6
4	Psychiatric & Geriatric Nursing	7
5	Midwifery	4
6	Reproductive Health	5

Annually, more than 800 students were accepted at the faculty in the following programs and degree levels (**Table 9**).

No	Program	Level	Establishment year
1	Nursing	B.Sc.	1965
2	Midwifery	B.Sc.	1986
3	Intensive Care Nursing	M.Sc.	2008
4	Psychiatric Nursing	M.Sc.	2014
5	Internal Surgery Nursing	M.Sc.	2015
6	Counseling Midwifery	M.Sc.	2013
7	Geriatric Nursing	M.Sc.	2018
8	Emergency Nursing	M.Sc.	2018
9	Nursing	PhD	2021

Major capabilities

- Skill lab (center of clinical skills), with an area of 150 square meters for nursing and midwifery departments separately.
- The faculty's library in an area of 500 square meters, containing 51031 Persian books, 3896 Latin books, and 700 educational CDs.
- Holding two educational programs for interns coming from Sulaimani, Kurdistan Region, and Iraq.
- In order to facilitate the clinical education and optimal utilization of educational and research facilities of hospitals, departments of Midwifery, Nursing and Psychiatric Nursing have been established since June 2013.

Physical Environment and Facilities

The Faculty of Nursing and Midwifery is located in an area of 50000 square meters with substructure of 12000 square meters, green space of 8000 square meters, and logistic environment of 8000 square meters.

Facilities

- Microbiology and Parasitology Laboratory to offer practical courses in Bacteriology and Parasitology for different programs in the Faculty.
- Immunology and Hematology Laboratory to offer hematology, immunology, physiology, biochemistry and midwifery's applied tests, and applied physics courses.
- Chemistry and Biochemistry Research Laboratory is well equipped to facilitate laboratory study affairs, Chemistry and Biochemistry courses.
- Centers of fertility research and life quality promotion.
- Clinical skills Center is equipped with three separated rooms for nursing skills, emergencies and anesthesia, and gynecology in an approximate area of 420 meters.





The Faculty of Allied Medical Sciences was founded in 1963, entitled the faculty of laboratory sciences. The faculty offers bachelor and master programs. It was merged with the faculty of nursing and midwifery in 1970 and started to work independently as the Faculty of Allied Medical Sciences in 2007. Now, it is located in the shared area of 55000 square meters with Faculty of Nursing and Midwifery.

The faculty has 28 academic staff who work in six departments including Surgical Technology, Radiobiology and Nuclear Medicine, Laboratory Sciences, Health Information Technology, Medical Emergencies and Anesthesiology (**Table 10**); and 864 students are studying in various levels and programs (**Table 11**).

The faculty offers a full range of academic courses in undergraduate and postgraduate levels. It should be noted that the program of Surgical Technology and Radiobiology and Radiation Protection programs started admitting master

Faculty of Allied Medical Sciences

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students from 2017 and 2018, respectively. The Faculty of Allied Medical Sciences is also known as one of the best in research and development. It has six laboratories including biochemistry, microbiology, hematology, physics, dosimetry, and repair and maintenance and cell culture Lab. It also publishes scientific research journals, develops postgraduate courses, and it has clinical and information skills centers, and has a scientific cooperation with many other research centers in country.

Table 10: Academic staff of Faculty of Allied Medical Sciences

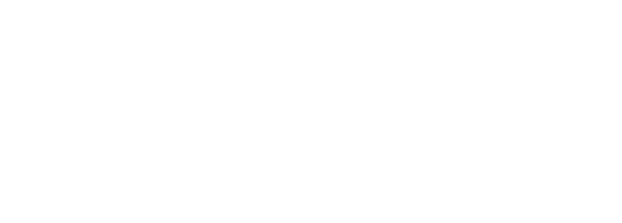
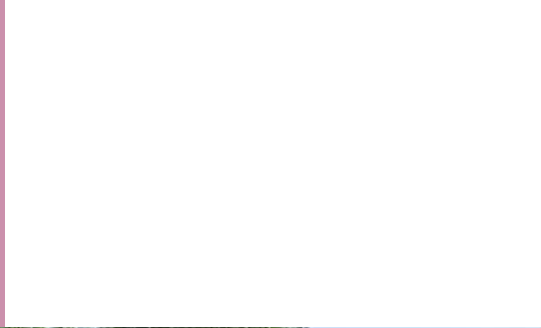
Academic title	Number
Professor	1
Associate professor	3
Assistant professor	10
Mentor	14
Total	28

Table 11: Different Programs and levels in the Faculty of Allied Medical Sciences

No	Program	Level	Establishment year
1	Laboratory Sciences	B.Sc.	1985
2	Hematology	M.Sc.	2021
3	Radiobiology & Radiation Protection	B.Sc. & M.Sc.	1992 / 2018
4	Radiobiology	M.Sc.	2021
5	Surgical Technology	B.Sc. & M.Sc.	1986 / 2017
6	Anesthesiology	B.Sc.	1995
7	Health Information Technology (IT)	B.Sc.	2014
8	Nuclear Medicine	B.Sc.	2010
9	Medical Emergencies	B.Sc.	2011
10	Medical Emergencies	A.Sc.	2006

Major capabilities

- The only undergraduate program in health IT in west of Iran.
- Journal of Clinical Research in Paramedical Sciences.
- Membership of two academic staff in the board of development council of Ministry of Health (Surgical Technology and Medical Emergencies).
- The only postgraduate Radiobiology and Radiation Protection program in west, north and south-west of Iran.





Faculty of Nutrition Sciences and Food Technology

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The School of Nutrition Sciences and Food Technology has a long history of training Nutrition and Food Sciences Professionals with the two groups of “Nutrition Sciences” and “Food Sciences and Technology”. With more than 20 experienced faculty members of varying degrees, including assistant, associate and full professors of nutrition and food sciences, the school admits students in undergraduate, postgraduate, and postdoctoral degrees in Nutritional Sciences, Food Technology and Quality Control and and Food Safety. The faculty members are fluent in Kurdish and English.

The Faculty of Nutrition and Food Technology aims for excellence with comprehensive, integrated education, and scholarship. Food sciences professionals train students in quality, processing, and safety of foods for multibillion dollar food industries. Nutrition professionals provide training

in nutrition sciences, community nutrition, and clinical nutrition with a focus on improving health and well-being of all citizens and populations.

Scholarly and educational programs at the undergraduate and postgraduate levels integrate the basic and applied sciences with outreach.

Educational Status

The Faculty of Nutritional Sciences and Food Technology has 13 academic staff (**Table 12**) working in two departments in which they have trained 183 students.

Academic	Number of academic staff
Professor	1
Associate professor	4
Assistant professor	7
Mentor	1
Total	13

The list of all undergraduate and postgraduate programs offered by the faculty is summarized in (**Table 13**)

No.	Program	Level
1	Food Technology and Quality Control	BSc
2	Nutritional Sciences	M.Sc.
3	Food Safety	M.Sc.
4	Food Technology and Quality Control	M.Sc.
5	Food Safety	M.Sc.
6	Nutritional Sciences	Ph.D.

Major Facilities

- Units and Equipment Department of Food Sciences and Technology for students and researchers use

Laboratories

- Laboratory of Nutritional Research and Food Industry.
- Laboratory of Food Quality Control.
- Laboratory of Nutrition Research.
- Laboratory of Food Microbiology.

Its active laboratories include Food Microbiology, Food Quality Control and Nutrition Research, which are equipped with specialized devices such as spectrophotometers, atomic absorption, high performance liquid chromatography (HPLC), automatic soxhlet, Real Time (PCR), ultrasound homogenizer, Biomedicine (BIA) and anthropometric equipments that provide a wide range of opportunities for performing experiments required for graduate studies.

- Well-equipped open access library, auditorium and conference hall and Information and Technology site.
- Center of computer sites equipped with systems (All in one) for students.

Other Capabilities and Accomplishments

- Integrating laboratories into a research and educational laboratory.
- Community services and industry related projects.
- Center in west of the country and region 3 universities including provinces (Kermanshah – Hamadan-Kurdistan-Ilam) and the second faculty in Iran after Shahid Beheshti University.
- Center of electronic education in west of the country.
- Collaborates with 3 clinics and 5 educational hospitals (with over 1500 beds including all clinical units).
- Faculty members work at the clinics of KUMS five days a week.
- Providing diet and counseling services in specialized clinics.

The Students Success and Growing Trend

- Holder of the highest scores and grades of university entrance exams and international and foreign

festivals.

- Establishment of the Kermanshah Nutrition Association as one of the branches of the Iranian Nutrition Association (ITA).
- Guild activities of Foodism.

Student and Important Cultural Activities Status

The World Food Day is held every year in Faculty of Nutrition Sciences and Food Technology at KUMS.

Goals

Prospects for the Future of School Graduates

Graduates of the Department of Food Technology and Quality Control and Food safety can work in food production factories as technical, laboratory, quality control and production manager, as well as in government related centers including food and drug departments, standards organization, etc. Nutrition graduates can also be recruited as diet regimens in the cardiovascular disease, obesity, weight loss, diabetic, renal, gastrointestinal, oncology, ICU hospitalized diets, pregnant and lactating diets, as well as athletes and play key and effective roles in this regards.

In addition, graduates of the school have the opportunity to pursue higher education and can be employed in academic and research departments of academic centers.

- Teaching graduate students in nutritional sciences with theoretical knowledge and practical skills to provide therapeutic, educational, and research services.

- Theoretical training of medical and paramedical students in the field of nutrition principles and diet therapy.

- Educating outstanding nutritional experts.

- Applied research in specialized nutritional fields.

- Launching nutrition retraining courses for alumni in nutrition, nursing, midwifery, medicine and pharmacy.

- Conducting fundamental and applied research in various specialized nutrition fields.

- Investigating the problems of diet therapy in hospitals and to solve existing problems.

- Carrying out research related to the food industry in cooperation with the food technology group.

- Expanding proper nutrition culture in Kermanshah province by holding educational sessions in the community and media.



Faculty of Rehabilitation Sciences

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Faculty of Rehabilitation Sciences is the latest established faculty of Kermanshah University of Medical Sciences. Founded in 2020, the faculty offers three bachelor programs as Physical Therapy, Occupational Therapy, and Speech Therapy. In addition to educational activities, the Faculty of Rehabilitation Sciences with active clinics aims at providing rehabilitation services to meet community needs through research and science production.

The faculty has four academic staff serving at three departments of physical therapy, occupational therapy, and speech therapy (**Table 14**), while call for faculty recruitment is in process.

Facilities

- Unique clinic of rehabilitation with physiotherapy, occupational therapy, and speech therapy services for outpatients located at Farabi Educational and Treatment Center.

Table 14: Academic staff of Faculty of Rehabilitation Sciences according to their academic title

Academic title	number
Associate professor	2
Assistant professor	2
Assistant professor (recruitment in progress)	6
Total	10

- Unique clinic of psychosocial occupational therapy located at Farabi Educational and Treatment Center.
- Two unique stroke centers in Imam Reza Hospital and Farabi Hospital.
- Access to rehabilitation textbooks in central library of KUMS.

Departments

Department of Physical Therapy: Physical Therapy (PT) is a branch of rehabilitation sciences that uses specially designed exercises and equipment to help patients regain or improve their physical abilities. PT is appropriate for many types of patients, from infants born with musculoskeletal birth defects to adults suffering from effects of injury or surgery, to elderly post-stroke patients. The department offers special training in four academic years for bachelor degree.

Department of Occupational Therapy: Occupational Therapy (OT) is a branch of rehabilitation sciences that involves skilled treatment helping individuals to achieve independence in all areas of their lives during their lifespan. OT is appropriate for treatment of children with neurodevelopmental disorders including Cerebral Palsy (CP) and Autism. It is also appropriate for patients with hand injuries, stroke, head injuries, people suffering from severe burns and spinal cord injuries, and young and adults with psychiatric disorders.

Department of Speech Therapy: Speech Therapy (ST) is a branch of rehabilitation sciences. ST is therapeutic treatment of impairments and disorders of speech, voice, language, communication, and swallowing. It uses varied techniques including physical exercises to strengthen the muscles used in speech (oral-motor work), speech drills to improve clarity, or sound production practice to improve articulation. ST is appropriate treatment for children with speech and language delay, stuttering, and adult with stroke.



Faculty of Nursing (Sonqor)

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sity of Medical Sciences,
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The Faculty of Nursing (Sonqor) became an independent faculty within KUMS in February 2013, and started to work independently with its only nursing department.

Nursing Faculty (Sonqor) trains undergraduate students in the field of nursing and offers a bachelor degree. It currently has 102 students, 7 academic staff and 70 graduates.

Nursing education provides a strong theoretical basis and clinical application of skills and critical thinking required for the practice of nursing in today's healthcare arena. We are committed to educate students who will deliver exceptional health care, generate innovative knowledge, and provide transformative leadership to improve health outcomes for all population.

The University Campus

KUMS was first established as the Faculty of Medicine in 1986. It was expanded and moved to the central campus in the most northern part of Kermanshah next to Imam Reza (AS) Teaching and Treatment Hospital. Today, the complex of Faculties of Medicine and Pharmacy is located at the Central Campus. Other university faculties such as the Faculty of Dentistry, Public Health, Allied Medical Sciences, and Nursing and Midwifery are spread across various locations in Kermanshah. The main dormitory and the gym are located near the central complex.

Accommodation Options

There are many opportunities to live close to the University with a wide range of accommodation options within walking distance or a short bus ride. The accommodation options are fully or partly-furnished with good quality furniture.

1. Housing and Residence Life

Living on campus has proven to foster students' engagement and to improve overall student success. KUMS on-campus housing provides a clean, comfortable, safe, and conducive environment to support the academic mission of the university with a focus on fostering a strong sense of student community. More specifically, living in the residence halls enhances and completes the learning that occurs at the university.

A variety of housing and accommodation options allow students to create the environment in which they feel comfortable. University offers independent living in a supervised environment. Amenities include wired and wireless internet connections in each residence hall, a choice of double or private rooms, health, wellness and substance-free living, the first year experience and many other themed housing options. The residence hall is particularly useful to first year undergraduate students and new arrivals to Kermanshah.

It is notable to mention that the University provides students with subsidized three main meals.

2. Housing

KUMS undertakes the responsibility of providing the students with proper accommodation through the Office of Vice-Chancellor for Culture and Student Affairs. Most student dormitories are located at the university dormitory, which is a residential complex to accommodate the students of different fields and levels of study. There are recreational and welfare facilities such as reading chambers, libraries, a mosque, an auditorium, a gym, a movie hall, etc. Student dormitories occupy an area of 41000 square meters. Currently, 2 dormitories for boys and 4 dormitories for girls are provided for all applicants who represent 50% of the student population. Two of the dormitories accommodate single top students and residents. In general, the dormitories can accommodate 817 female students and 825 males. In addition, the married couples' dormitory houses 40 families.

Student Health Care Center

The Student Health Care Center provides the students with a healthy environment which is quite essential for proper education. It uses services of experienced university instructors at general, specialized, dental, and vaccination clinics. In case of any need for more medical care and treatment, students will be sent to the affiliated hospitals. Upon admission to the university, a medical record file indicating health status and problems is made for every student. Using the same files and health cards, students can refer to the university's associated Health Care Centers. Emergency Clinic at the dormitories provides the students residing at dormitories with emergency medical care.

Licensed psychologists and social workers provide various services at The Student Counseling Center. Other areas of assistance include emotional attitude, behavioral problems, social skills, proper decision making, marriage counseling, family problems, financial issues, workshops, and training courses on learning skills, concentration, memory, study skills, educational problems, and correspondence counseling with students' families, and giving educational and psychological speeches.

Physical Education

Measures are taken by the Physical Education Department of the Office of Vice-Chancellor for Culture and Student Affairs to improve the quality of physical health of the staff, students, and their families.

Some of the university's sport facilities are as follows:

- Water Sports Complex: swimming pool, sauna, jacuzzi, and fitness center.
- Sports-Cultural Complex: an arena for indoor games such as volleyball, basketball, futsal, badminton, martial arts, table tennis, body building, an artificial wall for rock climbing, and Imam Khomeini Culture Home with audio-visual equipment.
- Farabi Soccer Field.
- Sports Complex including tennis courts.
- Gyms at the student dormitories.

Physical Education Department also organizes the students' tournaments at the university and national levels, running training courses, and helping the concerned department with the students' physical education credits. Winning many competitions by the university's athletes at the national level indicates how active the authorities, staff and students have been.

The Research and Education Center for Sports Medicine was established to do research on various aspects of sports medicine with the collaboration of the students and faculty of medicine. Currently, the curriculum for an MSc program in medical sports is being prepared with the help of the Department of Orthopedics at the Faculty of Medicine to be offered to qualified general practitioners.

Financial Aid

Outstanding students are granted tuition fee discount based on their academic performance, excellence in research, and championship in Asian tournaments, etc. For further details, please visit the link below: <https://www.kums.ac.ir/en/apply/tuitionfees>.

Cultural Activities

The Directorate for Cultural Affairs and Extra-Curricular Activities aims to discover and help foster hidden talents of the students in order to develop their culture and thoughts. These extra-curricular activities aim at helping the students to be self-directed, efficient, and responsible citizens in the society.

KUMS has 9 active self-service centers as follows: Central Self-Service, Self-service of Ayatollah Taleqani Dormitory, Self-Service of Ayatollah Mofatah, Self -Service of Ayatollah Mofatah Dormitory, Self-Service of Shahid Alvani Dormitory, Self-Service Zagros Dormitory, Self-Service of Faculties of Public Health and Nutrition and Food Sciences, Self-Service of Faculty of Allied Medical Sciences, Self-Service of Faculty of Dentistry.

Central Self-Service Address:

Across from Imam Reza Hospital, Daneshjoo Blvd., Sorkheh Lijeh, Kermanshah, Iran.

Phone Number: +98-83-34274625

KUMS

Hospital in KUMS

- Imam Reza (AS) Hospital
- Golestan Trauma and Burns Hospital
- Motazedi Hospital
- Taleqani Hospital
- Imam Khomeini Hospital
- Farabi Hospital
- Dr Mohammad Kermanshahi Hospital
- Imam Ali (AS) Hospital

KUMS

Hospital in KUMS

Imam Reza (AS) Hospital

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E-mail: admin@irhk.ir

Website: <http://www.irhk.ir/>

Imam Reza (AS) Hospital, a public teaching and treatment center, is the largest, the most modern and equipped center for education, treatment and research in west and northwest part of Iran.

It provides the most recent and scientific methods of education, treatment, research and diagnosis based on clients' needs to promote the health of people in the society.

We serve all ultra-specialized treatment needs so that patients don't have to travel to get treatment out of state. This hospital is also proud of respecting the human values.

Different parts of the hospital:

- Deputy of Research
- Deputy of Education
- Deputy of Treatment
- Deputy of Development and Planning
- Directorate of Nursing
- Deputy international affairs (IPD)
- Quality Improvement
- EDU

The hospital Wards and Departments

- Operation (General Surgery, Thoracic, Artery, Cancer)
- Bone Marrow Transplant
- Pediatrics
- Physical Medicine and Rehabilitation
- Radiotherapy - Oncology



- CCU
- Delivery
- Dermatology
- Emergency Medicine
- ICU
- Internal Medicine
- Kidney Transplant
- Neurology
- Neurosurgery
- Ophthalmology
- Orthopaedics
- General surgery
- International Patient's Department
- Urology
- Imaging Department (Radiology)
- Laboratory
- Blood Bank
- Nuclear Medicine
- Angiography
- Physiotherapy
- Intervention
- Screening Physicians
- Nutrition Clinic
- Boustan Clinic
- Orthopaedics
- SCU (Stroke Care Unit)

Among the other distinguishing features of this well-appointed hospital complex is its enjoyment of the first-over bone marrow transplantation and peripheral blood stem cell transplantation establishment in western Iran, provision of a wide range of advanced imaging services, including MRI, and nuclear medicine using the most up-to-date MRI, CT Scan and angiography machines, and performing advanced surgeries such as urodynamic tests, PCNL, female pelvic laparoscopy, and laparoscopic urological surgeries, etc.

This renowned hospital also caters for patients through its renal transplant department, special care units of acute ischemic stroke, high-risk pregnancy department, isolated respiratory rooms, and international patient department.

Last but not least, a proper groundwork has been provided for teaching medicine at Imam Reza Hospital Complex through getting full benefit from the largest center for clinical skills in western Iran and its 200 well-versed specialist and subspecialist as well as its enjoyment of diverse facilities, thereby pushing the boundaries of possibilities in this respect.

Imam Reza Hospital Complex is the Largest, Most Modern and Well-appointed Hospital in western and Northern Iran.

Golestan Trauma and Burn Hospital

Trauma Burn Hospital, located in Imam Reza Hospital Complex, was inaugurated on 12 November, 2019 by the Minister of Health and Medical Education and is a specialized and sub-specialized center for burns and plastics restorations.

But Golestan hospital is considered as a specialized referral center for severe acute respiratory syndrome (covid 19) care and recognized in Kermanshah city since the beginning of the pandemic. There are various wards in the hospital such as Emergency (10 beds), Operating Room (3 bed), Clinic, Laboratory, Radiology, Physiotherapy, Pharmacy and Administrative Affairs, Landry, CSR, ICU (40 beds), Infectious diseases ward (21 bed), Physiotherapy (5 beds), Burn (20 beds), Restoration (18 beds).

Address: Golestan Trauma and Burns Hospital,
Next to Imam Reza Hospital, Parastar Blvd.,
Kermanshah, Iran.

Post Code: 6714415333

Tel: + (98-83) 37106500

E-mail: admin@irhk.ir

Website: <http://www.irhk.ir/>



Motazedi Hospital

Founded in 1956, Motazedi Teaching Hospital is a medical center for obstetric and gynecologic services. It has 86 usable active beds and the wards of surgery, delivery, postnatal-delivery, emergency, operating room and NICU. Motazedi Hospital, with trust in God and great effort of its staff, tries to improve the quality of services for safe childbirths and patients' satisfaction.

Address: Ferdowsi Sq., Motazedi Hospital, Kermashah, Iran.

Post Code: 686718-14474

Tel: + (98-83) 37259002- 37246693

Fax: + (98-83) 37246346

E-mail: Motazedihospital.Kermanshah@gmail.com

Website: <http://motazedi.kums.ac.ir>

Mission:

- Participating in the female community health providers and women in the west of Iran by providing services and following activities to understand and comply with the latest standards of the Ministry of Health and Medical Education.
- Offering health services, diagnosis and treatment of diseases pertaining to Obstetrics and Gynecology and Infertility.
- Conducting research activities in the field of Obstetrics and Gynecology and Infertility.
- Providing educational opportunities for students of nursing, midwifery, allied medical sciences, medical sciences and residents.



Taleqani Hospital

Address: Shahid Behesti Blvd., Taleghani Hospital, Kermanshah, Iran.

Post Code: 6715847167

Tel: + (98-83) 38367984-9

Fax: + (98-83) 38367984

E-mail: Taleghani_Hospital@yahoo.com

Website: <http://taleghani.kums.ac.ir/>

Taleqani Hospital was designed and constructed by Italian engineers in 1969. The hospital was inaugurated as a public hospital with 200 active beds in 1973, and now with 220 active beds is one of the oldest hospitals in the west of Iran. Its qualified professional medical staff and experienced personnel provide efficient health care to patients. Injured patients in accidents in the region are admitted to Taleghani Hospital.

One of the most important achievements of the hospital is emergency services and providing health care for veterans and warriors of the eight years of sacred defense as the valuable assets of the country.

Main units

- Emergency
- Operating rooms in two levels
- Intensive care units in two levels

Hospital wards

- Oncology
- Neurosurgery
- Three orthopedic units
- Two general surgery units
- Clinic



Imam Khomeini Hospital

Address: Naqlieh St., Imam Khomeini Hospital, Kermanshah, Iran.

Post Code: 6718743161

Tel:+(98-83)37283602-37278759-37278457-37278925

Fax: + (98-83) 37224516

E-mail: ihospital@kums.ac.ir

Website: <http://imamkhomeini.kums.ac.ir/>

Imam Khomeini Hospital was established to treat diseases and improve public health. It is one of the seven teaching and public hospitals of KUMS. The hospital is capable of providing specialty and subspecialty services in eye, ear, nose and throat (ENT), poisoning, burns, internal and related diseases. Now, it has 206 usable active beds and the wards of ICU, emergency, infectious diseases, operating rooms, ENT, surgery, internal diseases, ophthalmology and dialysis burn, reconstructive surgery.

It aims at improving the quality of medical services, educating and training physicians and other medical professionals to ensure continuity of comprehensive health care for patients in future. It also supports findings of clinical and applied research to supply the treatment needed for people.





The International Patient Department Ward in Imam Khomeini Education and Treatment Center

This ward has four rooms each filled with a bed and an examination room in which patients can spend their treatment time with their companion. Each room has a refrigerator, TV, Wi-Fi, telephone set and a food menu for the patient and their companion. The following services are offered:

- Answering all medical questions before and during the treatment and also after the patient is discharged.
- Doing all arrangement for visits, operation dates and the admissions between the doctors and the international patients by the department.
- Preparing and presenting cost estimate and final bill for given services and also answering financial questions.
- Offering all hotel services for your relaxation like: furniture, telephone set, Wi-Fi and TV For the patient and companion.
- Sending patients' complaints to an effective system of surveying and handling complaints.
- All physicians are able to speak English if you prefer.
- Providing all facilities to say prayers.

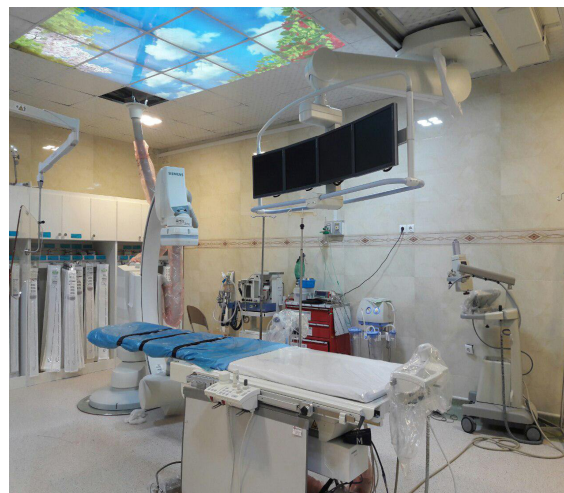
Imam Ali (AS) Hospital

Address: Imam Ali (AS) Hospital,
Shahid Beheshti Blvd., Kermanshah, Iran.
Post Code: 6715847145
Tel: + (98-83) 38370252 – 38360041 – 38360295
Fax: + (98-83) 38360043
E-mail: heartcenter@kums.ac.ir
Website: <http://imamali.kums.ac.ir/>

Imam Ali Educational and Medical Center as the first center for Cardiovascular Surgery and Angiography inaugurated in 1999. Improving the quality and quantity of diagnostic and treatment wards has made this center the largest cardiovascular center in west of Iran. In addition to covering the province's health wards, the center's wards enable the admission of patients from different provinces, such as Kurdistan, Ilam, Lorestan, and even neighboring Iraq. The wards provided to patients admitted to this center include:

- Coronary and Peripheral Angiography and angioplasty
- PACE / EPS Ablation
- Primary PCI
- Cardiac Rehabilitation
- Echo Cardiography
- Echo Stress
- Nuclear Medicine

Imam Ali Hospital has 42 CCU beds, 34 Post CCU beds, 18 ICU beds, 3 Cardiac Operating rooms, 3 Angiography and Angioplasty Operating rooms, 1 PACE / EPS Ablation room. The center strives to educate patients and their companions in the processes of prevention, treatment and rehabilitation, and to provide appropriate wards based on customer satisfaction. In this center, efforts have been made to develop interaction with other educational and medical centers, public organizations



and the global scientific center to improve and update the quality of wards.

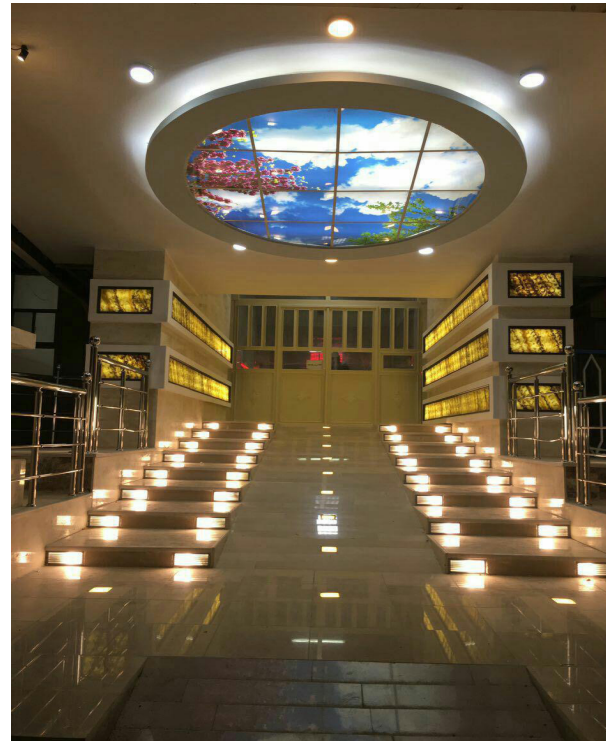
The different wards of this center include the following:

- ICU
- CCU
- POST CCU
- Post Angiography
- Cardiac Emergency
- Internal Wards
- Surgical Wards



The center also includes specialized cardiac polyclinics as follows:

- Sport Test
- Eco Cardiography
- Holter ECG/BP
- Laboratory
- Radiology
- Cardiac Rehabilitation
- Nutrition
- Nuclear Medicine



Farabi Hospital

Address: Dowlatabad Blvd., Isar Sq., Farabi
Hospital. Kermanshah, Iran.

Post Code: 6715847134

Tel: + (98-83) 38261046-38264820-382160700

Fax: + (98-83) 38264163

E-mail: hos_farabi@kums.ac.ir

Website: <http://farabi.kums.ac.ir>

Founded in 1981 as a medical center of neurological services, it has 210 usable active beds and four wards of psychiatry for men and women, emergency, neurology as well as an addiction treatment clinic of neurology and psychiatry. It currently includes four psychiatric, neurology, ICU and emergency departments.



Dr Mohammad Kermanshahi Hospital

Address: Helal Ahmar crossroad, Mohammad Kermanshahi Hospital, Kermanshah, Iran.

Post Code: 6713733135

Tel: + (98-83) 37218202-10

Fax: + (98-83) 37218210

E-mail: MKH@kums.ac.ir

Website: <http://drkermanshahi.kums.ac.ir>

Founded in 2011, Dr. Mohammad Kermanshahi Hospital, is the only specialized pediatrics center in Kermanshah. It has predicted and provided all requirements for treating children's diseases. It has 135 beds in different wards such as infection, pediatric surgery, pediatric ICU, neonatal ICU, emergency, dialysis, and operating rooms.

It provides diagnostic and therapeutic services such as CT-scan, flow cytometry, fluoroscopy, echocardiography, EMG, NCV, EEG, and clinical and clinical and paraclinical units. It also includes pediatric nephrology, oncology, neurology, cardiology, psychiatry, dentistry, internal and infectious diseases, urology and pediatric surgery and other medical services.



“KUMS Research and Education Centers

- **Research Centers in KUMS**
- **Institutes in KUMS**
- **Educational Centers**
- **Clinical Skill Lab**
- **Health Technologies Research Institutes**

Research Centers in KUMS

KUMS manages different research centers in various scientific fields such as medical biology, fertility and infertility, drug abuse, liver diseases, sleep disorders, nosocomial infections, infectious diseases, drug delivery, environmental health, etc. The aims and activities of these research centers are briefly explained below:

• Sleep Disorders Research Center (SDRC)

SDRC was established in 2007 for both clinical and basic research purposes, in the field of sleep medicine, in order to combat a serious public health concern. The SDRC consists of two main research laboratories, located in Farabi Hospital, Kermanshah University of Medical Sciences. It collaborates actively with well-known sleep centers around the world and has published several papers in the high-quality peer-reviewed journals.

• Liver Diseases Research Center

It attempts to expand the knowledge in relation to preventing and treating liver diseases and to enhance teaching and research in various fields of liver diseases and hepatitis.

• Nosocomial Infection Research Center

It aims at enhancing the knowledge in relation to the epidemiology, prevention and treatment of nosocomial infections and doing research to promote in-hospital services, encouraging researchers and holding conferences, workshops and seminars.

• Medical Biology Research Center

Medical Biology Research Center, established in 2002, aimed to use the knowledge of molecular biology and biotechnology for more accurate diagnosis and effective treatment, and to help meet the needs in the fields of food and medicine. The research center was definitively approved by the Ministry of Health, Treatment and Medical Education (MHTME) in 2004.

Mission: Medical Biology Research Center was established to create a suitable platform for the country's researchers to produce effective products in order to improve health in the society. The research center tries to provide employment for graduates of higher education in research

centers to conduct applied research activities and produce scientific advances based on the needs of the society's priorities, and to establish a constructive relationship with drug companies and related research centers in the country. The purpose of the research center is to achieve the goals and research prospects of KUMS by taking advantage of valuable experiences of senior academic faculty members as well as using young and creative academic faculty members, experts and students.

Research fields: Medical Medical Biology Research Center owns several departments (research groups) including applied biotechnology, pharmacology, molecular genetics, structural biology, bioinformatics, physiology, biomaterials and biophysics. The center is active in the fields of drugs mechanism effective in diabetes, genetic engineering, production and purification of recombinant proteins, production of monoclonal and polyclonal antibodies, structural biology and protein aggregations, factors affecting cardiac ischemia, molecular genetics of diseases, studies on stem cell differentiation, cancer and angiogenesis, and computational neurosciences.

• Social Development and Health Promotion Research Center

In the second half of 2006, the center succeeded to get the approval in principle and in August of 2020, received final approval from the relevant ministry. The center has a comprehensive and holistic view about health and considers the high contribution of

social determinants in different aspects of health including physical, psychological, social and spiritual, and the social determinants affecting health are the basis of design for the studies. This center is founded to identify obstacles to the maintaining and promoting the society's health including poverty, low level of health literacy, inequality in access to and benefiting from health services, unhealthy lifestyle, environmental disorders, other social harms and providing solutions to ensure, maintain and improve health through applied research with a community participative approach. The center aims to strengthen the science-research foundation and empowerment at different levels of society i.e., university, various organizations and people. The infrastructure and main axis are in line with the sustainable development of health. Also, according to the situation, the center carries out its research activities along with public activities and participation. The founding board members of the center as well as the researchers conduct research in the field of health management priorities, in the form of three research groups including "social development", "popular participation" and "health promotion" with an emphasis on positive social interaction. They are active in improving the society, promoting health literacy, controlling and preventing communicable and non-communicable diseases. Among the mission of the center is the issue of justice in health and creating a positive change in the management and policy-making of health care provision. Also, various researchers from

KUMS and other academic researchers provide research plans, projects and student theses under financial and spiritual support. Needs assessment is among the obvious programs of the center to develop a comprehensive plan for comprehensive health policy of the province and the country. Using the relatively long experiences, the center has started to benefit from the successful model of “Community Based Participatory Research” (CBPR). In this way, the research is based on social needs so that people of the society are systematically empowered and gain the power to identify and provide solutions for their health problems and implementation of the research.

- **Pharmaceutical Sciences Research Center**

The Pharmaceutical Science Research Center started operating in 2011 and 2012, and the approval in principle was issued by the relevant ministry. In 2017, the center managed to continue its activity by obtaining final approval from the MHTME. The activities of Pharmaceutical Sciences Research Center are accessing to central analysis laboratories, biomaterials, pharmacognostic and biotechnology and laboratory equipment including zetasizer and ultracentrifuge, photolithography equipment, HPLC, rotary large scale, MPLC, GC, and complete spectroscopic equipment in the research fields of drug design, extraction and identification of effective medicinal compounds

of plants, tissue engineering, design and manufacturing of diagnostic chips. Also, the center, having equipment such as horizontal and vertical electrophoresis tanks, orbital shaker, and PCR station, is ready to cooperate with researchers and professors to conduct relevant experiments.

- **Research Center for Environmental Factors Affecting Health**

The research center for environmental factors affecting health was approved in principle by the MHTME in 2013 and officially started in 2017 to develop the research culture and implement applied health research. The center managed to get final approval from the relevant ministry. The Research Center for Environmental Factors Affecting Health is one of the dynamic research centers that has been able to cooperate with 50 faculty members (educational groups of epidemiology, occupational health, environmental health, health education, and health promotion, public health, vital statistics, nutrition, and food industries and health economics) and in total, with one hundred and five capable researchers of the university and 11 specialized laboratories with advanced devices such as ICP, HPLC, GC, etc., could introduce itself as a targeted center with suitable programs for the priorities and needs of society. This center has the honor of achieving the first place in the 23rd Razi Medical Science Research Festival in 2016. Research Center

for Environmental Factors Affecting Health was ranked 7th among research centers affiliated with universities of medical sciences and healthcare services in the country with more than 5 years of experience in the ranking of the MHTME in 2019, and also ranked the first among health promotion research centers without an independent budget line in the 27th Razi Medical Sciences Research and Technology Festival in 2021. Also, Dr. Masoud Moradi, a faculty member and research assistant of the Center for Research on Environmental Impact Factors obtained the title of the best researcher in 2021.

• Fertility and Infertility Research Center

In 2014, the research center was established to use the knowledge of experts in this field, including professors of basic sciences and clinical researchers to develop and apply human knowledge in infertility treatment and to train researcher in the field of fertility and infertility. In 2009, it was succeeded in getting principle approval and finally, the center received definitive approval from the Development Council of the MHTME, in 2013.

Mission: Fertility and Infertility Research Center was established to provide facilities and guide and to utilize basic and applied research in the field of fertility and infertility sciences. The center fulfills its duties by performing the management process of basic, applied, and developmental research along with other clinical and basic disciplines, both

medical and non-medical sciences, as well as applying research results, training researchers and scientific interaction with other domestic and universities abroad to achieve reproductive health.

Research fields: The center is active in the development of clinical and basic research related to infertility and childbearing. Also, in the field of creating animal models of infertility, cancer, diabetes, 3D culture, angiogenesis and identifying the effect of pharmaceutical agents and their side effects on the folliculogenesis process in laboratory animals, investigating and comparing the effect of ovulation stimulating agents and their side effects on the tissue structure of the uterus and fallopian tube, investigation, and identification of effective compounds on spermatogenesis in animal models, cultivation of various cell lines and stem cells, endometriosis and use of tissue engineering techniques in infertility.

• Drug Abuse Prevention Research Center

Drug Abuse Prevention Research Center started by obtaining approval in principle in 2010 and 2011, and obtained final approval from the MHTME in 2016.

The center conducts fundamental and applied national and international research intending to prevent and treat disorders caused by drug use, training capable researchers in the field of drug

abuse problems among students and faculty members, and using research results in the treatment of patients with problems caused by substance abuse.

• Nano drug delivery research center

Nano Drug Delivery Research Center started in 2019 to carry out nano-drug research with the goals of making drug delivery carriers and conducting studies on them and achieving a clear perspective for the national production of drug delivery carriers. In 2012, it received its approval in principle, and the definite approval, in 2017.

Capabilities: Synthesis of various types of nanocarriers in gene and drug delivery, preparation of 2D and 3D nanofibers for drug delivery and cellular scaffolding, synthesis of various nano-catalysts and their application in many cases such as enzyme stabilization, design of biosensors and immunosensors for biomarker detection, gene and targeted drug delivery.

• Oils and Fats Research Center

In 2014, the Ministry of Health, Treatment, and Medical Education announced its agreement in principle with the establishment of the Oils

and Fats Research Center as a research center under the supervision of Vice Chancellor for Food and Drug in KUMS. Since the beginning of the activity, moving toward people's health, maintaining and improving the quality of food and pharmaceutical products, and focusing on oils has been the main policy of the center. In this way, it has always benefited from the cooperation of other scientific centers, including Razi University, Ilam University, Lorestan University, Hamedan University of Medical Science, Semnan University, University of Barcelona Spain, Littoral University of Argentina, and other domestic and foreign research centers.

The presence and activity of capable and experienced researchers have made the center able to provide various services to other centers and study in different fields. The main areas of activity of the center include the following:

- Investigations and study of interactions of lipids and proteins
- Investigation of the protective effects of oils in preventing DNA damage
- Construction and development of new sensors
- Development of new electrochemical methods to measure anabolic steroids
- Development of new methods with biomedical value based on electrochemical methods combined with computational methods to measure cholesterol, cholestanol, and triglycerides.
- Continuous production of carotenoid pigments and optimization of its production conditions by *Rhodotorula Rubra*, in an airlift fermenter for use

in the pharmaceutical, health, and food industries.

- Restorative and protective effects of Satureja Khuzestanica oil on testicular tissue changes, qualitative parameters, oxidant status and sperm apoptosis indices, and expression of Bcl.2, Bax and caspase 3 genes in adult male mice following experimental type 1 diabetes

- Tamsulosin encapsulated in nanoliposome: a new method of drug delivery in the treatment of benign prostatic hyperplasia

- Primary production and isolation of the effective substance of lovastatin drug by Aspergillus Tereus microorganism in a submerged system using membrane bioreactor

- Clinical evaluation of the “Synchronous loop-dependent isothermal multiplication based on nanoparticles with the probe” test for detecting common species of Brucella

- Tamsulosin encapsulated in nanoliposome: a new method of drug delivery in the treatment of benign prostatic hyperplasia

- Identification of frauds in meat products based on PCR molecular method in Kermanshah

- Primary production and isolation of the effective substance of lovastatin drug by Aspergillus Tereus microorganism in a submerged system using membrane bioreactor

- Nitrate measurement in food samples based on a biosensor combined with image processing and first-order multivariate calibration.

- Fabrication of an ultra-sensitive biosensor based on hemoglobin-dimethyl dioctadecyl ammonium

bromideliposome/3D gold nanostructure-opened partial nanotubes-ionic liquid/electrode

- Glassy carbon for measuring acrylamide in food samples

- Comparative investigation of the antifungal effect of denture adhesive containing zirconia particles in the form of nanoparticles and normal particles against Candida albicans

- Investigating the toxicity of camellia seed oil in an animal model

- Removal of free fatty acids from edible oils using functionalized magnetic nanoparticles

- Systematic review and meta-analysis of preclinical and clinical studies on the effectiveness of ginger in the treatment of fatty liver disease

- Crocin liposomal formulation, investigating the physicochemical properties of the formulations and its effect on reducing inflammatory responses in rat arthritis

Inventions

- A process for the production of carotenoid pigments using Rhodotorula Rubra

- Airlift bioreactor to produce carotenoid pigments

- A sensor that detects the presence of dithionite (blanket) in flour products

• Infectious Diseases Research Center

The center consists of three centers for liver and digestive diseases, and hospital infections, which were merged in 2017 based on ministerial instructions and started working under the title of Infectious Diseases Research Center. This center aims at expanding human knowledge and helping to prevent, treat and educate in various fields of liver, digestive and infectious diseases, hospital infections as well as research with clinical application to know the etiology, control, and prevention of these diseases.

• **Cardiovascular Research Center**

This center was defined in the first half of 2013 to expand human knowledge in the fields of cardiology and, it was approved in principle by MHTME in 2015, after launching the ACS registry.

• **Medical Technology Research Center**

Medical Technology Research Center was established to develop and apply human knowledge in the field of medical technology, and was approved in principle by the Council for the Development of Medical Sciences Universities of the relevant Ministry in 2018.

• **Regenerative Medicine Research Center**

Recently, scientists have described the properties of special cells called stem cells, which are expected to be useful in the treatment of such diseases. These cells can regenerate and differentiate into all types of body cells. On the horizon of the development of the science, the possibility of producing and repairing tissue and regenerating body parts using stem cells in tissue engineering and regenerative medicine, as well as the treatment of hereditary and cancer diseases, has been fully revealed and seems to be possible. In the not-so-distant future mankind will forget the concern of losing tissue and vital organs with the help of stem cell technology and related sciences. The center was approved as a basic research center by the Council of Medical Sciences Universities of Iran in 2016. Considering the remarkable facilities of the center and the participation of its capable academic and research faculty members, it is expected that large-scale applied research projects will be carried out in line with the aims of the center. This is the only center equipped with a clean room at KUMS. The room has the main class B culture room and two class IIA laminar hoods, which have a maximum particle size of 5 μM operating at 2000 particles per cubic meter. After the clean room, there are two entrance and exit airlocks with class C and one airlock with class D, and a change room is connected with the CNC class. The transfer of the cell from the heat of a Pass Box room is connected to the class warehouse. Hygienic air conditioners are used in the clean room. In

the clean room in class B, there is laboratory equipment including centrifuge-incubator-installation and other required equipment. All furniture in the clean room is made of steel.

Institutes in KUMS

Health Technologies Research Institute

Background: Health Technologies Research Institute, as the first research institute in Kermanshah University of Medical Sciences, approved in 2018 to expand research and develop technologies emphasizing molecular basis of diseases, science and nanotechnology, with a special focus on fertility and infertility and regenerative medicine. The institute was licensed by the Ministry of Health, Treatment and Medical Education.

Covered research centers

- Medical Biology Research Center
- Fertility and Infertility Research Center
- Nanodrug delivery research center

- Oils and Fats Research Center
- Regenerative Medicine Research Center
- Medical Technology Research Center

Mission

Health Technologies Research Institute aims to be one of the scientific-research centers in the country by conducting basic and clinical research leading to the improvement of society's health, as well as creating a suitable platform for carrying out specialized research and innovation in the defined areas by taking steps in line with upstream documents including the comprehensive map and the country's 20-year vision document. The research institute uses research-based knowledge and potential scientific research with the support of experts in the associated centers, not only in the country but also beyond the borders and it is known as an efficient, active and progressive research institute with the output of creative activities which conducts applied research with scientific and economic goals. It moves towards third generation universities to focus on entrepreneurship in the field of health and skills development based on scientific groups and disciplines in the region.

- Participating in promotion and improvement of the society's health and raising the scientific position of the university in the region by creating a suitable research platform for coordinating clinical research and basic sciences.

- Encouraging team research and active communication with other research centers in the country and the world

- Establishing Kermanshah University of Medical Sciences as one of main medical research centers in the country

Research field and capabilities:

Health Technologies Research Center operates in the following areas relies on the expertise, experience, and specialized field of academic staff members and non-academic researchers and students working in the research center, as well as using the research tools and facilities of its sub-category centers in the field of conducting basic, applied, and interventional research:

- Preparation of biological products needed for medical diagnosis kits and products used in pharmaceutical and food industries.

- Proteomics studies, drug-protein interactions, and investigating the cardiac effects of drugs and plant extracts in laboratory models.

- Isolation and purification of medicinal and functional proteins and peptides, as well as active ingredients of medicinal plants.

- Conducting various clinical trials using cell products and herbal and synthetic drugs.

- Designing angiogenesis models and investigating the angiogenic and anti-angiogenic effects of synthetic drugs and different compounds of natural origin.

- Pharmacokinetic studies and investigation of pharmacogenetic effects of medicinal plants.

- Reducing the burden of diseases by understanding the molecular basis and helping to develop a new generation of drugs.

- Investigating the molecular basis of hemoglobinopathies, thrombosis, preeclampsia, and cancers.

- Conducting research studies in the field of drug delivery systems through nano techniques.

- Using cell science, studying animal models and different tissues to help treat infertility, cancer and other related diseases.

- Using the science of reconstructive medicine to treat urinary and reproductive tracts diseases, bone and regenerative diseases, etc.

- Measurement and analysis of fatty acids, oils, as well as pollutants measurement, drugs, etc.

Health Research Institute

Background: Health Research Institute in Kermanshah University of Medical Sciences, established in 2019, aims to create, develop and promote research and technology in economic, social and environmental fields regarding health, cardiovascular diseases, infectious diseases and behavioral problems and prevention of substance abuse and other risky behaviors, and also sleep disorders and pharmaceutical sciences in country. The research institute carries out scientific research, concluding memorandums with other organizations, conducting academic, national and international missions and holding journal clubs and scientific meetings using proficient faculty members and

experts.

Associated Research Centers: Currently, Health Research Institute includes the following 10 research centers.

- 1- Research Center for Environmental Factors Affecting Health (definitely approved)
- 2- Research Center for Social Development and Health Promotion (definitely approved)
- 3- Drug Abuse Prevention Research Center (definitely approved)
- 4- Sleep Disorders Research Center (definitely approved)
- 5-Pharmaceutical Science Research Center (definitely approved)
- 6- Heart and Vascular Research Center (agreement in principle)
- 7- Infectious Diseases Research Center (agreement in principle)
- 8- Behavioral Disorder Research Center
- 9- Systematic Review and Meta-analysis Unit
- 10- Research Center for Interdisciplinary Education Research

Mission: Health Research Institute aims to create a suitable platform for basic, developmental and applied research by using the valuable skills and experiences of faculty members for the covered research centers and research partners inside and outside the country and also using advanced and up-to-date equipment based on local, national and international needs by targeting research resources to identify and solve health problems. We hope

to create a clear path to improve the society's health having effective scientific and research communication with international prestigious centers.

Research fields

- Epidemiological research in the field of infectious and non-infectious diseases
- Prioritizing and conducting applied research in the field of health problems based on the study for the burden of diseases
- Qualitative research in the field of public health
- Environmental research (water, sewage, food, waste materials, radiation, soil, environmental pollutants, etc.)
- Research in the field of health management and economics and improving the quality of services
- Research in the field of social damage and substance abuse
- Research and innovation in the field of pharmaceutical sciences
- Health problems related to sleep disorders
- Research in the field of lifestyle, social empowerment, health education and community health promotion
- Health justice and inequality, health promotion based on community participation
- Quantitative and qualitative improvement of research in the field of infectious diseases.

Educational Centers

Educational centers in Kermanshah are Medical Educational Development Center (EDC), Regular Trainings of Medical Community Center and Clinical Skills Center which are briefly explained in the following sections.

Medical Education Development Center:

Founded in 1995 in an area of 1500 square meters, it is placed beside Taleghani Hospital, and it has six research and teaching units and twelve committees.

The Medical Education Development Center (EDC) center is one of the main units of the Vice Chancellor for Education, established in 1998 to plan and organize the major objectives for promoting the quality of education in the university. The active committees of the center proceed in line with education development and strive to identify the weaknesses and set appropriate programs for the development of education, academic promotion, and adaptation of the educational programs to the real requirements of the society.

Major achievements and innovations of Medical Education Development Center include:

- Creating an electronic academic report card

for the faculties;

- Holding a six-month educational and research empowerment program for the academic staff with under 5 years of experience (about 250 hours);
- Taking action to virtualize 50% of the workshops for the academic staff in the current year;
- Evaluating the students and evaluation of the teacher's lesson plan in the classroom for the first time in the country;
- Implementing the budgeting of teaching hospitals;
- Establishing a committee for coordinating and supervising the Educational Development Offices (EDO);
- Introducing and registering 120 talented students in the Ministry of Health;
- Preparing an electronic report card for the analysis and calculation of the performance-based reward of the clinical faculties;
- Presenting three top national processes in Shahid Motahari Festival during the past three years;
- Obtaining the first rank in education management in educational ranking of universities (RAD plan) last year;
- Gaining the second place in national ranking in Shahid Motahari Festival for holding medical education exhibition;
- Cooperating with the Ministry of Health and Medical Education in evaluating six rounds of Shahid Motahari Festival.

Continuing Medical Education Organization

Retraining is defined as all the activities after

graduation for the maintenance of the acquired skills and qualitative and quantitative promotion and learning new academic materials and skills, which can result in the qualitative and quantitative promotion of healthcare and treatment services in the society.

The Continuing Medical Education Organization (CME) in Kermanshah was founded in 1998 as one of the units of Medical Education Development Center and cooperated with this center until 2008, after which it started to function independently under the control of the Vice Chancellor for Education, termed as Continuing Medical Education Organization of Kermanshah. This center joined the nationwide network of online education in 2011. Moreover, CME and CE offer educational activities that address the real world requirements of physicians and nurses/midwives, respectively.

Different educational programs presented in regular training are:

- Conferences
- Seminars
- Workshops
- Short-term professional programs
- Regular programs
- Self-learning
- Conference and congress
- Educational and research activities
- Periodical academic conferences

Clinical Skill Lab

The Clinical Skills Center of KUMS, founded in 2007, is one of the most successful centers in promoting the practical skills of students. It has a codified educational calendar for all academic levels and Programs and holds over 300 workshops annually (documents of RAD plan). It also enjoys a novel educational design in implementing most of its workshops, which has achieved the top educational ranking. This center was pioneered to initiate administering Objective Structured Clinical Examination (OSCE) as a mixed, three-part, 600-score test, in the west of Iran. Kermanshah University of Medical Sciences has started to fully equip this clinical skills center, which has an area of 600 m² and standard space for administering OSCE. By opening this center, KUMS possesses one of the largest clinical skill centers.





Health Care
Doctor
Hospital
Pharmacist
Nurse
Dentist
First Aid
Surgeon
Emergency

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