

Zanjan University of Medical Sciences and Health Services

<http://www.zums.ac.ir>

The city of Zanjan is located in the Northwestern region of Iran alongside the international transit road, and in a close proximity to provinces that share borders with the neighboring countries such as Turkey, Azerbaijan, and Armenia.

Zanjan University of Medical Sciences and Health Services (ZUMS) is a state university founded in 1987. The University mainly focuses on three goals:

- 1) Graduate and postgraduate programs for training physicians, dentists, pharmacists, nurses, midwives, and other health care specialists;
- 2) Implementation of research programs;
- 3) Providing treatment and health services.

ZUMS has a number of affiliated colleges that are subdivided into various departments and cover a wide range of fields in medical sciences: Faculty of medicine , Faculty of pharmacy , Faculty of health & paramedical sciences, Faculty of nursing & midwifery , Faculty of nursing-Abhar, Faculty of dentistry, International branch.

➤ **Educational Opportunities:**

➤ **Principal Qualifications awarded by ZUMS:**

- **Doctor of Philosophy (Ph.D.) Degree** in eleven different fields of Medical Biotechnology, Molecular Medicine, Parasitology, Pharmaceutical Nanotechnology, Pharmaceuticals, Pharmacology, Bio-Pharmaceuticals, traditional medicine, Addiction Studies, Drug Control, Pharmaceutical Nanotechnology (research based).
- **Clinical Subspecialty Degree** in one field of Endocrine and Adult metabolism.
- **Clinical Specialty Degree** in eleven clinical fields, including Anesthesiology, General Surgery, Obstetrics & Gynecology, Pediatrics, Infectious Diseases, Internal Medicine, Psychiatry and Neurology, Cardiovascular, Radiology, and Emergency Medicine
- **General doctoral Degree** in three fields of Medicine, Pharmacy, and Dentistry.
- **Master of Science (M.Sc.) Degree** in twenty two fields of basic medical sciences, genetics and biotechnology.
- **Bachelor of Science (B.Sc.) Degree** in eleven different fields.
- **Associate Diploma** in a number of health qualifications.



The educational deputy of University is interested in developing international academic collaborations and planning for bilateral or multilateral joint degrees and courses in particular undergraduate and postgraduate fields.

ZUMS is now ready for admitting foreign students for either course-based or research-based degrees.

➤ **Research Facilities:**

- ZUMS puts great emphasis on supporting research in different fields of medicine. The following research centers have been established over the last decade:

-Research Center of Metabolic Diseases

-Research Center of Social Effects Influenced on Health

-Research Center of Genetic Therapy on Cancer

-Research Center of Pharmaceutical Nanotechnology

-Research Center of Pharmaceutical Biotechnology

- Research Center of Infected Injuries

- Research Center of Applied Pharmacology

- Scientific and Educational Center of Nanotechnology of Iran





Six additional research centers have been either opened recently or are near completion:

- Fertility Research Center
- Polycystic Ovary Syndrome Research Center
- Research Center for Accident and Trauma
- Research Center for Infectious and Local Endemic Diseases
- Research Center for Neurosciences
- Research Center for Water and Bioenvironment

School of Pharmacy is a well equipped center to perform variety of research projects, including development of liposomal drug delivery system, modeling solubility, mechanisms of cell toxicity, development of plant *in vitro* culture, tissue engineering, pharmaceutical chemistry, and antimalarial drug studies.

Development Center for Pharmaceutical Technologies:

established in the School of Pharmacy, it actively supports the researchers' projects and original findings.

Several research laboratories in the university, including the **Central Research Lab**, are equipped for experimental projects.



Scientific Journals:

- An international English journal, entitled: **Controlled Release Journal**, is currently published as an open access journal (<http://www.cr-journal.com>).
- Another accredited journal called **Journal of Zanjan University of Medical Sciences & Health Services** is published in Persian with abstracts in English that are indexed in some data banks, including Scopus: (<http://zums.zums.ac.ir/journal>).
- **Journal of Medical Education**, which currently publishes national articles on medical education.
- **Nursing and Midwifery Journal** is another national publication that focuses on research in nursing and midwifery related issues.
- **Journal of Human, Environment and Health Promotion (JHEHP)** is a quarterly open access, online & offline, peer reviewed journal published by Zanjan University of Medical Sciences (School of Public Health).





- **Journal of emergency care** is to provide information about health care for emergency patients. Cardiovascular events, Accidents, and Cancers are the main intentions of this Journal.

➤ **Treatment Services:**

Mousavi Hospital: ZUMS authorizes a number of teaching hospitals admitting out- and in-patient cases in several clinics and wards. This major hospital is a highly specialized



training and treatment center with 540 fixed beds. This center, which is committed to provide services to the population of Zanjan and other neighboring provinces, was recognized as one of the best of its kind in the nation for its board of trustees in 2009 by the Ministry of Health and Medical Education. The Iranian National Productivity and Business Excellence award was also given to this center in 2011.

Several clinics and wards provide different treatment services, including **Neonatal Subspecialties** with advanced apparatus, **Obstetrics and Gynecology**, **General Surgery**, **Neurosurgery** and **Pediatric Neurosurgery**. Among various number of other clinics and treatment centers, **Mammography** and **Painless Delivery** can be referred to as the newly established ones.

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Center of Cardiac Surgery: One of the best-equipped cardiac surgery and trauma centers in the country, which was established in 2007, is located in Mousavi Hospital.

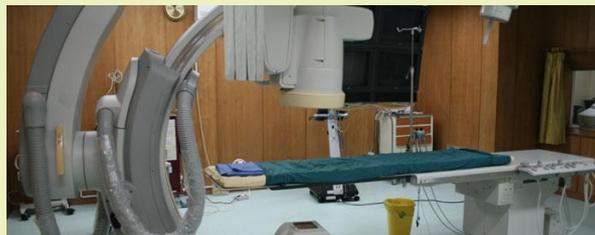




The Cardiac Surgery with I.C.U wards maintaining the latest and state-of-the-art equipment is considered as a superior center and tends to compete with other similar centers across the country.

Hundreds of open heart surgeries, including coronary artery bypass, and aortic and mitral valve replacements have been performed in this center without any mortality during the operations.

Angiography Ward is also a complement to the center with the performance of angiography and angioplasty of the coronary and peripheral vessels, and congenital and non-congenital catheterization of the left and right chambers.



Vali-e Asr Treatment and Training Center: This is another major educational and treatment center that covers other clinical requirements concerning **infectious diseases, metabolic disorders and diabetes clinic, internal medicine, respiratory diseases, gastrointestinal disease, rheumatology, ... etc.**

Wound Clinic: This special clinic, which has recently started providing treatment services, was established in 2010 through collaboration with international consultants from world known centers such as U.S. Trinitas Medical Center.

Dental diseases treatment and health services are available in relevant centers authorized by the University.

Medical Tourism and Treatment Visit: The medical and treatment facilities available at ZUMS in Zanjan provide a great potential for attracting people in need of medical services from other countries, particularly neighboring countries and Middle East. Provision of these services for foreign visitors and tourists has already been started.