



## 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 an international transit road in close proximity to provinces that share borders with the neighboring countries such as Turkey and Azerbaijan.

**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, and other health care specialists; 2) implementation of research programs; and 3) providing treatment and health services.

ZUMS has a number of affiliated colleges that are organized into various departments and cover a wide range fields in medical sciences: School of Medicine, School of Pharmacy, School of Health & Paramedical Sciences, School of Nursing & Midwifery, and School of Dentistry.

### ➤ **Educational Opportunities:**

**Principle qualifications** awarded by ZUMS:

- **Doctor of Philosophy (Ph.D.) degree** in five different fields of Medical Biotechnology, Molecular Medicine, Parasitology, Pharmaceutical Nanotechnology, and Pharmaceutics.
- **Clinical Specialty degree** in eight clinical fields, including Anesthesiology, General Surgery, Obstetrics & Gynecology, Pediatrics, Infectious Diseases, Internal Medicine, Psychiatry and Neurology.
- **Master of Science (M.Sc.) degree** in 11 fields of basic medical sciences, genetics and biotechnology.
- **General doctoral degree** in Medicine, Pharmacy and Dentistry.
- **Bachelor of Science (B.Sc.) degree** in 10 different fields.
- **Associate Diploma** in a number of health qualifications.

The University Vice-Chancellor for education 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.

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➤ **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 Cancer Gene Therapy
- Research Center for Metabolic Diseases
- Research Center for the Effects of Social Agents on Health
- Research Center for Pharmaceutical Biotechnology
- Research Center for Pharmaceutical Nanobiotechnology



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 well equipped 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.



➤ **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 providing 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 based 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, and it.

**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 and Middle East. Provision of these services for foreign visitors and tourists has already been started.