

School of Architecture and Environmental Design

The School of Architecture and Environmental Design was founded in 1968. Blending the aesthetic/artistic considerations with scientific/engineering necessities, the School provides instruction in architecture, urban design, urban and regional planning, industrial design and building, and environmental sciences. The School has as its aim, the education of a wide range of

highly motivated students from a variety of backgrounds and disciplines. The School also provides many courses leading to higher degrees. The staff of the School has a variety of research interests, which include fields of study from architecture, environmental design and engineering activities to urban and regional planning. Members of the faculty are actively engaged in research concerning environmental design and engineering, building technology and process, architectural and urban history, as well as regional and rural planning. They are also committed to bring about relevant educational developments. The School enjoys a large library and an archive with a variety





of books and journals in Persian, English, German and Italian. The archive is located in a place where a large collection of theses, maps, and other research materials exists. The computer center of the School, provides the students with an opportunity to develop and work on their projects. The Architecture Research Center of the School was established in 1997 to facilitate research on Islamic and Iranian architecture and urban studies.

The educational and research activities of the School within the four past years include, but are not limited, to:

- Publication of 82 journal papers in highly accredited art and engineering journals at national and international levels.
- Presentation of 163 conference papers in national and international gatherings.
- Authorship and translation of 21 titles of books in the fields of Architecture, Urban Planning, Urban Design, etc.

- Recipient of 6 patents at international and national levels.
- 15 industrial project contracts with various institution such as Ministry of Housing and Urban Development, the Islamic Housing Foundation, the Building and Housing Research Center of Iran, and Tehran Municipality.
- The School has also recently established the Iranian Association of Architecture and Urbanism.

Departments

- Architecture
- Urban Design
- Urban and Regional Planning
- Art and Technology
- Building & Urban Conservation & Renovation
- Industrial Design

Programs and Degrees

<i>B.Sc./ B. Arch.</i>	<i>M.Sc./ M. Arch.</i>	<i>Ph.D.</i>
<i>Architecture</i>	<i>Architecture:</i>	<i>Architecture</i>
<i>Industrial Design</i>	<i>Housing Architecture</i>	
	<i>Sustainable Architecture</i>	
	<i>Technological Architecture</i>	
	<i>Cultural Building Architecture</i>	
	<i>Conservation and Restoration of Historic Buildings and Cities</i>	
	<i>Urban Design</i>	
	<i>Urban Planning</i>	
	<i>Industrial Design</i>	



Research Focus

- Architecture and Art Philosophy in Islam
- Sustainable Architecture
- Landscape Architecture
- Iranian Traditional and Native Architecture
- Urban Behavioral Studies and Behavioral Studies in Human Settlements
- Urban Conservation and Studies on Monuments and Old Buildings
- Urban Development and the Factors and Effects
- Housing Growth and Evolution
- Urban Design Theory and Practice
- The Evolution of Design Dimensions in Iranian Historical Buildings, Sites and Gardens
- The Study of Buildings and Monuments Damage, and Providing and Performing Designs for their Conservation, Revival, and Consolidation
- Ergonomic Product Evaluation and Design
- Product Packaging Assessment and Design

Laboratories and Workshops

- Building Technology Workshop
- Urban Design Workshop
- Urban Planning Workshop
- Carpentry Workshop
- Decoration Workshop
- Model Making Workshop
- Ceramics Workshop
- Photography Workshop
- Energy Laboratory

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School of Automotive Engineering

The School of Automotive Engineering was established in 2000 in line with a dedicated research center and provides Masters of Science programs: power train, chassis systems, body and structure groups. Until 2007, more than 100 students have graduated and some 150 graduate students are doing their study and research.

From September 2007, the School founded a General B.Sc. program for Automotive Engineering. The purpose of this program was to train engineers for automotive and related industries. At present, there are more than 60 undergraduate students studying in the School. The School has also the plan to extend its postgraduate programs to Ph.D. level. Many outstanding graduates choose to continue their education in this field because automotive engineering which is a new multidisciplinary field has great potential for innovation and research. The automotive industry in Iran is prestigious and of high rank and is very promising in terms of job opportunities. The library of the School acts as an educational support with subscription to 30 scientific journals. There exists a library of CDs related to courses and also a collection of the theses of students who have graduated. Access to the Central Library is also possible from the local library.

The educational/research achievements of the School of Automotive Engineering within the past four years include:

- Publication of 50 journal papers in highly accredited engineering journals at national and international levels.
- Exceeding 120 conference papers in scientific and engineering gatherings.
- Authorship and translation of 6 titles of books in the field of Automotive Engineering.
- Recipient of best national researcher award.
- Recipient of 20 patents.
- 30 industrial project contracts with the Ministry of

Industries and Mines and two main groups of automotive manufacturing companies (ie. Iran Khodro and SAIPA).

- The School has been acknowledged as the First School of Automotive Engineering in the Middle East.

Departments

Power Train
Chassis Systems
Body and Structure

Programs and Degrees

B.Sc.	M.Sc.
General Automotive Engineering	Power Train
	Chassis Systems
	Body and Structure

Research Focus

- Design and Simulation of Internal Combustion Engines
- Gasoline, Diesel, CNG, LPG and alternative Fuel systems
- Design of Experiments for Engine systems
- Power Train Systems (Normal Transmission Systems, CVT, IVT, AMT)
- Aerodynamics and Body Design
- Vehicle Dynamics
- Chassis System Design
- Platform Design
- Automotive HVAC Systems
- Hybrid Vehicles
- Intelligent Transportation Systems

Educational Laboratories

- Machinery Dynamics
- Strength of Materials
- General Workshop
- Heat Transfer
- Reciprocating Engines



- Fuel Systems
- Body and Structure

Research Laboratories

- Transmission Systems
- Body and Chassis
- Automotive Aerodynamics
- HVAC Systems
- Engine Dynamometry for SI and CI Engines
- Air Pollution for Gasoline and Diesel Fuels
- Platform Design
- Engine Simulation
- New Fuel Systems and Energy Saving

Faculty Members

Professors

■ **Shojaeefard**, Mohammad Hassan, Ph.D., University of Birmingham (U.K.), 1987; Body and Structure, Internal Combustion Engines, Aerodynamics and Aerospace, Turbomachinery, Heat and Fluid, Computational Fluid Dynamics mhshf@iust.ac.ir

Assistant Professors

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School of Chemical Engineering

Established nearly eight decades ago, the School of Chemical Engineering targets academic objectives in general and applied research to serve the local process industry in particular. It serves as a reliable center for research and education. The School admits about 60 undergraduate and 90 postgraduate students each year including approximately 10 Ph.D. students. 20 faculty members are teaching approximately 300 B.Sc., 190 M.Sc., and 40 Ph.D. students at the moment. Due to the quality of the services the school's graduates are often employed by the local industry during their education or soon after. Many of our graduates have managed significant achievements at national and international levels.

The faculty members and students enjoy access to a school-specific library containing over 10000 books and 1800 electronic books and subscription to over 80 national and international journals as well as a well-equipped computer center. The school is also equipped with four laboratories, used as training centers for the school B.Sc. students. The educational and research activities of the school within the four past years can be summarized as follows:

- Winning over 60 research contracts from the local industry.
- Publication of 250 journal papers in highly accredited science and engineering journals at national and international levels.
- Presentation of over 600 papers in scientific and engineering conferences.
- Publication of 4 titles of books in the field of chemical engineering.
- Winner of two best national researcher awards by faculty members.
- Winner of a third place of Kharazmi Festival Award.
- Receipt of 30 patents at international and national levels.

The school is organized in three departments of Petroleum Processing, Mineral Processing and Petrochemical Processing. School's excellence is centered on 8 research laboratories directed by the faculty members, dedicated to scientific research and solution developments for the local industry by the researchers employed in it as well as the many active postgraduate students attending to their dissertations. The school is also equipped with a chemical analysis service laboratory providing the widely needed services to the research laboratories, the postgraduate students as well as the external requests.

Departments

- Petroleum Processing
- Mineral Processing
- Petrochemical Processing

Programs and Degrees

B.Sc.	M.Sc.	Ph.D.
Chemical Engineering	<i>Process Modeling, Simulation & Control</i>	<i>Process Modeling, Simulation & Control</i>
	<i>Mineral Processing</i>	<i>Mineral Processing</i>
	<i>Advanced Membrane Processes</i>	<i>Advanced Membrane Processes</i>
	<i>Thermodynamics</i>	<i>Thermodynamics</i>
	<i>Reaction Engineering</i>	<i>Reaction Engineering</i>
	<i>Biotechnology</i>	<i>Biotechnology</i>

Research Focus:

- Membrane Separation Processes
- Thermodynamics
- Catalysis and Reaction Engineering
- Simulation of Chemical Engineering Processes
- Biotechnology
- Cement Process and Material Technologies
- Computer Aided Process Engineering
- Computational Fluid Dynamics
- Ceramic Process Technologies

Research laboratories:

- Chemical Analysis Laboratory
- Chemical Reaction Research Laboratory
- Thermodynamics Research Laboratory
- Mineral Processing Research Laboratory
- Separation Processes Research Laboratory
- Computer Aided Process Engineering (CAPE) Research Laboratory
- Computational Fluid Dynamics (CFD) Research Laboratory
- Biotechnology Research Laboratory
- Simulation and Control Research Laboratory





Faculty Members

Professors

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Department of Chemistry

The Department of Chemistry started its work in 2001, offering merely postgraduate programs leading to M.Sc. and Ph.D. degrees. It also provides service course of general chemistry each year for about 1100 students of other fields of study in the first year of their relevant study programs.

A number of 16 faculty members conduct research and educational activities in the Department. At present 85 M.Sc. students are studying in the Department. Over 192 students have been graduated from the Department since its establishment. A library consisting of over 9000 books and subscription to over 80 national and international journals, together with a well-equipped computer center are the facilities available for the students and faculty members. The Department is equipped with 4 educational laboratories and 8 research laboratories, some of which are unique.

The educational and research activities of the Department have been resulted to following achievements:

- Publication of 185 journal papers, including 18 hot papers, in highly accredited engineering journals at national and international levels.
- Delivery of exceeding 499 conference papers in scientific and engineering gatherings.
- Authorship and translation of 11 Chemistry textbooks.
- Recipient of 9 national patents.
- 25 industrial project contracts with relevant ministries, companies and organizations.
- Dispersive liquid-liquid microextraction (DLLME) has been developed as a new microextraction technique. The details of such an innovative and unique approach has been explained in details in 11 international journals (including 3 distinguished papers) published in international journals so far.

Divisions

- Analytical Chemistry
- Inorganic Chemistry

- Organic Chemistry
- Physical Chemistry

Programs and Degrees

M.Sc.	Ph.D.
Analytical Chemistry	Inorganic Chemistry
Inorganic Chemistry	Physical Chemistry
Organic Chemistry	
Physical Chemistry	

Research Focus

- Atomic Force Microscopy
- Computational Chemistry
- Crystallography
- Electrochemistry
- Nanochemistry
- Synthetical Organic Chemistry
- Bio-inorganic Chemistry
- Coordination Chemistry
- Drug Design
- Green Chemistry
- Polymer Science

Educational Laboratories

- Analytical Chemistry Laboratory
- General Chemistry Laboratory
- Organic Chemistry Laboratory
- Physical Chemistry Laboratory

Research Laboratories

- Advanced Inorganic Chemistry Research Laboratory
- Organic Chemistry Research Laboratory
- Physical Chemistry Research Laboratory
- Simulation Research Laboratory



- Advanced Electroanalytical Chemistry Research Laboratory
- Advanced Chromatography Research Laboratory
- Advanced Spectroscopy Research Laboratory
- Nanoporous Materials Laboratory

Faculty Members

Professors

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School of Civil Engineering

The School of Civil Engineering is one of the most successful schools in relaying of up to date knowledge and conducting research in the field of civil engineering. At present there are 40 full time faculty members. Having a long experience of undergraduate teaching, the School has initiated its activities

at the graduate level since 1983 and continued its efforts to expand the number of fields toward graduate degrees. Currently, there are 10 master and 7 Ph.D. programs. Many master and Ph.D. dissertations have valuable practical and theoretical applications, based on which an abundant number of articles have been published in national and international journals.

With regard to such accomplishments along with outstanding



and ongoing educational and research activities of the students and faculty members at various educational levels, the School of Civil Engineering was awarded the title of “the Eminent School of Civil Engineering in the Country” in the year 1992, by the Ministry of Science, Research and Technology.

The School has been also acknowledged as “the Center of Excellence” in the field of Structures since 2000. Also the post doctoral program in the field of Structural Engineering was

initiated in the school in the academic year 2001-2002 for the first time in Iran. In addition the School has established a Ph.D. program in Highway Engineering and Transportation and a Master program in Construction Engineering Management since the academic years of 1991-1992, and 2002-2003, respectively. The first Ph.D. student in the field of Highway Engineering and Transportation in Iran has been graduated from this School.





Most noteworthy educational/research achievements of the School of Civil Engineering within the past four years are summarized as follows:

- Publication of 353 journal papers in highly accredited engineering journals at national and international levels.
- Publication of 630 conference papers in scientific and engineering events.
- Authorship and translation of 39 titles of books in the field of Structural Optimization, Concrete Technology, Surveying, Structural Mechanics, Soil Mechanics, Soil Dynamics, Project Management, Highway Planning and Design, and Traffic Engineering.
- Receipt of distinguished national professorship award from the Ministry of Research, Science and Technology, 2005.
- Receipt of distinguished researcher award of Iranian Ministry of Science, Research and Technology in the years 2004 and 2006.
- Recipient of 6 patents at national levels for innovations.

- Signing 24 industrial project contracts with ministries and companies such as the Ministry of Road and Transportation, Iran Water Resources Management Co., and National Iranian Oil Company.
- The School has been acknowledged as “The Center of Excellence for Fundamental Research in Structural Engineering” since 2000.
- The school has established two research centers on “Asphalt Mixtures and Bitumen” and “Transportation”.

Departments

- Geotechnical Engineering
- Water Engineering
- Structural Engineering
- Highway Engineering
- Transportation Engineering

Programs and Degrees

B.Sc.	M.Sc.	Ph.D.
Civil Engineering	Structural Engineering	Structural Engineering
	Earthquake Engineering	Earthquake Engineering
	Construction Engineering Management	Construction Engineering Management
	Geotechnical Engineering	Geotechnical Engineering
	Highway Engineering and Transportation	Highway Engineering and Transportation
	Transportation Planning	Transportation Planning
	Water Resources Engineering	Water Resources Engineering
	Hydraulic Structures	
	Environmental Engineering	
	Marine Structures	

Research Focus:

- Water Resources Management
- Water and Wastewater Conveyance and Distribution Systems
- RCC Dams
- Earthquake Engineering
- Random Vibrations
- Nonlinear Dynamic Problems
- Seismic Risk Analysis
- Hard Fill Dams
- Soil Dynamics
- Soil Amplification
- Geotechnical Earthquake Engineering
- Traffic Engineering
- Construction Management

- Environmental Engineering
- Transportation Engineering
- Asphalt Technology
- Highway Engineering
- Conceptual Structural Analysis
- Applied Topology and Graph Theory
- Soft Computing in Civil Engineering
- Structural Reliability
- Nonlinear Finite Element Analysis
- Concrete Technology
- Road Safety

Faculty Members

Professors

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Laboratories

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- Hydraulics Research Laboratory
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- Tar and Asphalt Research Laboratory
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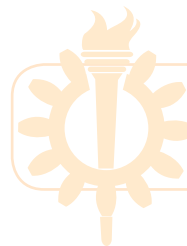
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