# School of Computer Engineering

The School of Computer Engineering inaugurated its independence from the School of Electrical Engineering in 1986, starting with two undergraduate programs in Computer Engineering, namely Software Engineering and Hardware Engineering. Based on the school's strategic plan, postgraduate programs at the M.Sc. and Ph.D. levels were introduced later in four years. Currently, about 700 students study in different programs at different levels each year, with an estimation of five percent growth a year. Particular emphasis is on postgraduate program growth in terms of both the variety of disciplines and the number of students as well as on quality of education and research.

Only high ranking applicants get the opportunity to study in this school through the general board exam administered by the Ministry of Science and Technology each year. Computer Engineering is one of the most competitive disciplines in the country, in general and at the IUST, in particular. Apart from higher education, the school is also fully engaged in state-of-the-art research in major fields of Artificial Intelligence, Software Engineering, Information Technology and Computer Architecture. Currently 13 research laboratories at the school support the research activities, some of which are sponsored by research institutes outside the IUST.

The research achievements of the School within the past four years include:
- Publication of 110 journal papers in highly accredited engineering journals at national and international levels.
- Presentation of 540 conference papers in scientific and engineering gatherings.
- Authorship and translation of three titles of books in the field of Computer Science and Engineering.

*Departments*
- Software Engineering
- Hardware Engineering
- Information Technology

### Programs and Degrees

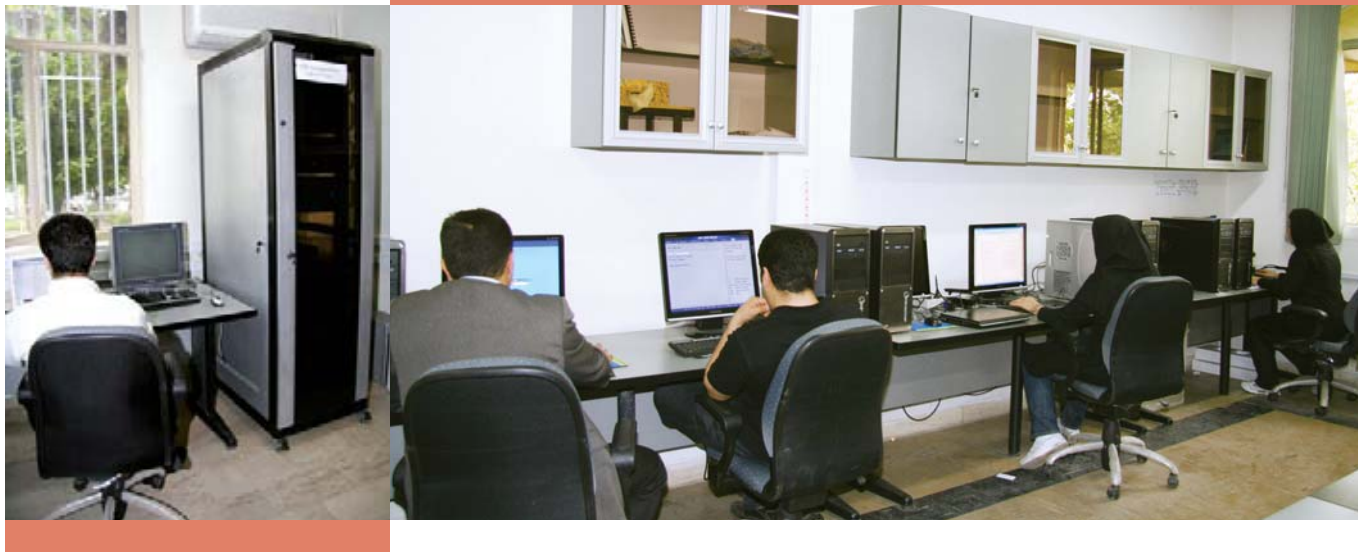| B.Sc. | M.Sc. | Ph.D. |
|---|---|---|
| Hardware Engineering | Software Engineering | Software Engineering |
| Software Engineering | Artificial Intelligence | Artificial Intelligence |
| | Computer Architecture | Computer Architecture |
| | Information Technology | |

### Research Focus

- Distributed Systems & Supercomputing
- Image Processing
- Audio and Speech Processing
- Computer Networks
- Wireless and Mobile Networks and Technology
- Parallel Processing
- Data Mining
- Computer Security
- Databases
- Artificial Intelligence
- Modeling and Performance Evaluation
- Fuzzy and Chaos Theories

### Research Laboratories

- Image Processing Laboratory
- Audio and Speech Processing Laboratory
- Complex Systems Laboratory
- Intelligent Automation Laboratory
- Parallel and Concurrent Processing Laboratory
- Computational Cognitive Model Laboratory
- Performance and Dependability Engineering Laboratory
- Soft Computing and Multiagent Systems Laboratory
- Distributed Systems Laboratory
- Data Bases and Data Flow Laboratory
- Network and High Performance Computing Laboratory
- Computer Networks Laboratory
- Wireless Network Laboratory

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# School of Electrical Engineering

Situated on an area of 12500 square meters with a complex of laboratories and workshops and also with well-experienced faculty members, the School offers study programs leading towards, B.Sc., M.Sc., and Ph.D. degrees.

The School inaugurated the Electronic Research Center in 1997 to establish an appropriate scientific ground for the development of electronic industry. One of the important characteristics of the center is its molecular beam epitaxy equipment in a modern clean room for applied and fundamental research in the fields of microelectronics and semiconductors.

Currently there are over 670 B.Sc., 490 M.Sc. and 140 Ph.D. students studying in the School. At present the School has 49 faculty members. Its library includes more than 6000 volumes of books in various Electrical Engineering fields. A collection of various engineering journals, encyclopedias, dictionaries, sufficient archive samples of B.Sc. and M.Sc. projects, and papers presented in seminars and conferences are also available. Computer facilities and audio-visual systems are available to students at all levels in the computer center of this school and the classrooms are all equipped with computers, video projectors and smart boards.

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

- Publication of 380 papers in highly accredited engineering journals at national and international levels.
- Presentation of 1260 conference papers in scientific and engineering gatherings.
- Authorship and translation of 46 titles of books.
- Recipient of a distinguished national professorship award.
- Recipient of best national researcher award.
- Recipient of second and third places in 19th International Kharazmy Festival Award, 2006.

- Recipient of 7 patents at national & international levels.
- Signing 291 industrial project contracts with ministries and companies such as Iran Telecommunication Research Center.
- Being acknowledged as the Center of Excellence for Power Systems Automation and Operation in 2005.

### Departments

- Electronic Engineering
- Communication Engineering
- Power Engineering
- Control Engineering
- Biomedical Engineering

### Programs and Degrees

| B.Sc. | M.Sc. | Ph.D. |
| --- | --- | --- |
| Communication Systems | Communication Systems | Communication Systems |
| Power Systems | Power Systems | Power Systems |
| Electronics | Electronics | Electronics |
| Control Systems | Control Systems | Control Systems |
| | Biomedical Engineering | Biomedical Engineering |

### Research Focus
- Optoelectronics
- Molecular Beam Epitaxy
- UWB Antennas and Systems
- Microwave and Millimeter Wave Communication Systems
- Wireless Mobile Cellular Systems
- High Voltage and Magnetic Materials
- Power Electronics
- Relays and Protections
- Industrial Automation
- Aerospace Control Systems
- Robotics and Mechatronics
- Signal and Image Processing
- Information Security
- Electric Machines & Drives
- Power Quality
- Nanoelectronics
- Quantronics

### Laboratories
- Computer Control and Fuzzy Logic Research Laboratory

- Microelectronics Research Laboratory
- Electronics Research Center Consisting of:
    - i- Linear Control Laboratory
    - ii-Electronics Precision Instrumentation and Measurements Laboratory
    - iii-Semiconductor Research Laboratory
- Optoelectronics and Laser Laboratory
- Antenna and Microwaves Research Laboratory
- Digital Signal Processing Research Laboratory
- Digital Communication System Research Laboratory
- Electric Machine Behavior Control Research Laboratory
- Electric Machines Research Laboratory
- Signal and System Modeling Laboratory
- High Voltage Research Laboratory
- Electrical Energy and Load Management Laboratory
- Bioelectric Research Laboratory
- Encryption and Secure Systems Advanced Research Laboratory
- Mechatronics and Robotics Laboratory
- Aerospace Control Systems Laboratory
- Nanoptronics

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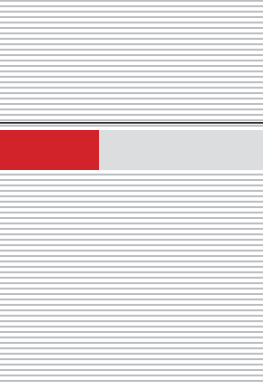
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# Department of Foreign Languages

The Department of Foreign Languages is as old as the university itself, dating back to the time of establishment of the University in 1929. Since then, the Department has provided other schools of IUST with such service courses as General English and English for the Students of Science and Technology. As for graduate studies, the Department offers a Master of Arts degree in Teaching English as a Foreign Language (TEFL); in addition, it potentially possesses the requisite qualifications to offer other graduate programs in translation, linguistics, literature, and English for specific purposes. It has a well-equipped language laboratory, providing instruction to one hundred students simultaneously. In addition to this laboratory, the Department has a professional library with a good number of up-to-date books and references in the areas of language teaching methodology, language assessment, English as a foreign language, English as a second language, English for specific purposes, linguistics, and literature.

The faculty members have been granted awards by outstanding authorities in the country. An award of the most Eminent Year-Book of Islamic Republic of Iran, along with two awards granted to two Selective Year-Textbooks, being taught throughout the universities of this country, are examples of these recognitions. In addition, the faculty members have had an active role in participating at local and international conferences. They are well-recognized for their publications in local as well as international journals. The faculty members have always been engaged in providing EST textbooks for the students of science and technology all over the country. Among them, one can name English for the Students of Engineering, English for the Students of Metallurgy, English for the Students of Systems Analysis, English for the Students of Industrial Technology, English for the Students of Manufacturing Engineering, English for the Students of Ceramics, English for the Students of Railway Engineering, and English for the students of Industrial Safety.

Another achievement of the Department is the publication of a two-volume Dictionary of Engineering Sciences. This dictionary is available in different sizes for different purposes: A Two-volume Dictionary of Engineering Science, a Concise Dictionary of Engineering Sciences, an Abridged Dictionary of Engineering Sciences, a Pocket Dictionary of Engineering Sciences, and an Electronic- Word- Finder Dictionary of Engineering Sciences.

During the past few years, the Department experienced publication of 15 books and journal papers and presentation of a number of conference papers, and had cooperation with the Ministry of Education in a research project on the standardization of private language institutions in Iran.

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# School of Industrial Engineering

The School of industrial Engineering has a long history of research and active collaboration with national projects in industry and the government. Presently there are 30 faculty members, 500 undergraduate, 165 M.Sc., and 65 Ph.D. students in the school. The Industrial Engineering curriculum equips students with strong aptitudes in engineering, controlling and designing complex industrial systems with efficient production of goods and services. Professional services performed by industrial engineers include: Facilities Layout Design, Feasibility Studies, Cost and Economic Analysis, Project Management and Control, Quality Control, Time and Work Management, Inventory and Production Control, Systems Analysis and Design, Computer Aided Manufacturing, Production Management Systems, Design for Static and Dynamic Systems, Maintenance and Repair Planning, Strategic Planning and Systems Simulation.

The main focus of many research areas in this school is to use the recent advances of optimization techniques such as Robust Optimization, Geometric Programming, Meta-heuristics on Industrial Engineering (IE) problems. The results of the recent advances not only are used for many Iranian industries but also they are published on quality index journals with relatively high impact factors such as Fuzzy Set and Systems, International Journal of Advanced Manufacturing, European Journal of Operational Research, Computers and Industrial Engineering, etc. The school's officials are committed to play an important role on adding value on leading edge IE problems and create a valuable environment for researches.

The school also supports a digital MBA unit which is located at the university. The main responsibility of this unit is to train top industry managers across the country using internet facilities and other electronic devices.

The school has established in the recent years a welding center which has received technical assistance from Islamic Development Bank (IDB) for enhancing quality welding training and research. The aim of this center is to provide the technicians from the industry and the students with skills and principles of welding, and to enable them to plan, design, implement and manage verity of welding systems. It aims also to provide the students with an understanding of the physical principles,

operating characteristics and practical applications of Gas, Flux-cored ore and other welding processes.

In addition to the central library of the university, a well-equipped library helps to support fundamental and applied research in the school. There are approximately 11,000 volumes of books in the school library. Besides, the graduate and undergraduate students have the access to a number of well-known online libraries such as Elsevier, Science Direct, Scopus, etc. The students also have access to hard copies of more than a hundred international journal. In addition, many industrial engineering software packages are available for both postgraduate and undergraduate students.

During the past four years, the school of Industrial Engineering has managed to complete several research works. The following summarizes some of the recent advances:

● There were over 260 journal papers in quality international journals, mostly included in extended science citation index such as European Journal of Operational Research, Fuzzy Sets and System, Computers and Industrial Engineering, International Journal of Advanced Manufacturing Technology, Journal of Intelligent and Fuzzy Systems, Communications in Statistics, Reliability Engineering and System Safety, Knowledge Based Systems, Energy, Computational Optimization and Applications, etc.

● The faculty members and graduate students has speeches in approximately 400 recognized conferences such as International Conference on Computers and Industrial Engineering, IEEE conferences, etc.

● About 30 volumes of books written by faculty members, mostly published by the university press. Besides, other 30 book titles were translated to Persian, including the most recognized university textbooks worldwide.

● There were over 20 different research contracts signed with and implemented for industrial sectors in order to resolve many real world problems.

### *Departments*
● Industrial Engineering
● Systems Management and Productivity
● Socio-Economic Systems Engineering
● Electronic Commerce
● Executive Management

### *Programs and Degrees*

| B.Sc. | M.Sc. | Ph.D. |
|---|---|---|
| Industrial Production | Industrial Engineering | Industrial Engineering |
| Planning & Systems Analysis | Systems Management and Productivity | Systems Management and Productivity |
| Industrial Technology | Socio-Economic Systems Engineering | Socio-Economic Systems Engineering |
| | Electronic Commerce | |
| | Executive Management | |

### *Research Focus*
● Supply Chain Management
● E-Commerce
● Production Planning
● Strategic Planning
● Econometrics
● Value Engineering

● Risk Analysis
● Knowledge Management
● Simulation
● Flexible Manufacturing Systems
● Transportation Planning
● Operations Research

### Laboratories and Workshops

- Welding Laboratory
- Welding Workshop
- Machine Tools Workshop
- FMS and Robotics Center

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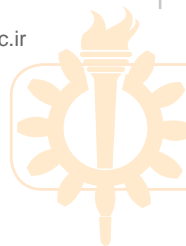shahanaghi@iust.ac.ir

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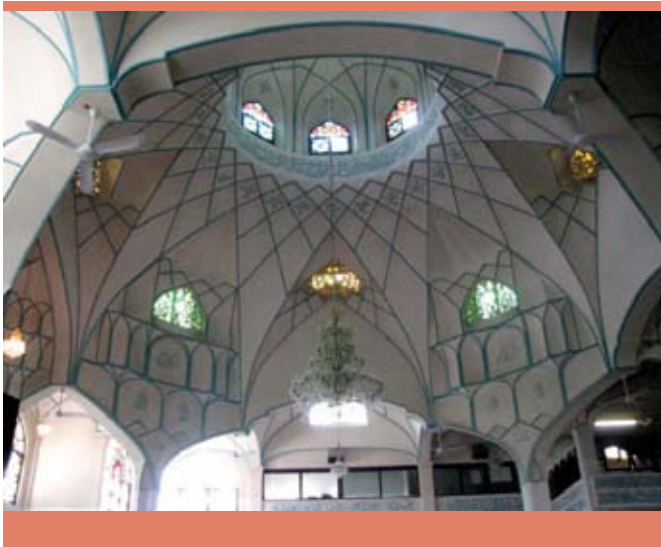teimoury@iust.ac.ir

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# Department of Islamic Studies

The Department of Islamic Studies offers general courses to IUST students, namely Islamic Thought, Commentary on the Holy Quran, Commentary on Nahjol Balageh, Analytic History of the Early Islamic Era, History of Imamat, Islamic Culture and Civilization, Social and Political Rights in Islam, Imam Khomeini's Political Thought, Islamic Ethics, The Islamic Revolution of Iran, and Persian Literature.



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# School of Mathematics

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From 2001 to 2009, a number of 381 students including 46 Ph.D., 420 M.Sc. and 225 B.Sc. students have been graduated from the School. There are 17 full time faculty members in the School. The library of the School contains over 5300 books. The School also provides computer facilities in its computer center.

Some educational and research achievements of the School of Mathematics within the past four years include:

- A number of 285 journal papers published in highly accredited scientific journals at national and international levels and 228 conference papers presented in scientific and engineering gatherings.
- Authorship and translation of 35 books in different fields of mathematics.
- Seven industrial projects completed in collaboration with a number of relevant ministries and the industry.

### Departments
- Pure Mathematics
- Applied Mathematics
- Statistics

### Programs and Degrees

| B.Sc. | M.Sc. | Ph.D. |
|---|---|---|
| Pure Mathematics | Pure Mathematics | Pure Mathematics |
| Applied Mathematics | Applied Mathematics | Applied Mathematics |
| | Statistics | |

### Research Focus:
- Algebra and Graph theory
- Approximation Theory , Spline approximation , Perturbation Theory and Application
- Differential Geometry
- Finite Element
- Functional Analysis , Nonlinear Analysis and PDE's
- Integral Equations, Wavelet Analysis and Application
- Inverse Problems
- Number Theory , Cryptography and Coding Theory
- Numerical Analysis
- Operational Research
- Ordinary and Partial Differential Equations
- Stochastic Processes and Statistics
- Theoretical and Computational Fluid Dynamics

### Laboratories:
- Mathematics Laboratory

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