Islamic Azad University; Science and Research Branch
Graduate School of the Environment and Energy

Graduate School of the Environment and Energy of Science and Research Branch in Islamic Azad University, has spared no efforts to expand its research and educational activities at postgraduate and doctorate levels in the past 20 years. These efforts have successfully resulted in training and educating of quality lecturers, researchers and experts who now serve across the country and abroad. Quite a few of the first doctoral graduates of the faculty have achieved associate professor rank in different universities where they lecture and conduct and lead research projects. Noting its activities in publication, education and research areas, the FEE has been identified as a ‘distinguished institution’ amongst other environmental faculties in the country. These achievements are the result of the past and present activities of the faculty which will only be continued and expanded in future. With the support and collaboration of the higher authorities, the university administrators and the alumni the school is determined to progress and flourish as a non-governmental scientific and research center at world level. The faculty began activities in 1990 in 3 major disciplines, namely Environmental Engineering, Environmental Management and Environmental Sciences, at post-graduate and Ph.D. levels. Since the first semester of 2003-2004 the School is offering master degree in Environmental Law and Environmental Economics, these being sub-disciplines of Environmental Management. Starting with the first semester of 2004-2005, Environment Design Engineering and Water Resources, being sub-disciplines of Environmental Engineering, have admitted students at the Masters level. From 2004-5 the Energy Engineering has also been included in the initiated School.

The Graduate School is composed of 19 postgraduate Departments as follow:

1. Department of Environmental Management
2. Department of Environmental Economics
3. Department of Environmental Law
4. Department of HSE Management
5. Department of Environmental Education
6. Department of Environmental Science – Biodiversity
7. Department of Environmental Science – Land use Planning
8. Department of Environmental Science – Pollution
9. Department of Environmental Engineering – Air Pollution
10. Department of Environmental Engineering – Water/Wastewater Pollution
11. Department of Environmental Engineering – Water Resources
15. Department of Renewable Energies Engineering
16. Department of Energy Economics
17. Department of Environmental Design
18. Department of Remote Sensing and GIS
19. Department of Environmental Geology
Postgraduate degrees offered by the School cover a broad range of environment and energy issues:

**Ph.D Degree**
1. Environmental Sciences
2. Environmental Management
3. Environmental Law
4. Environmental Engineering
5. Energy Systems Engineering

**M.Sc Degree**
1. Environmental Management
2. Environmental Law
3. Environmental Economics
4. Health, Safety and Environmental Management (HSE)
5. Environmental Education
6. Environmental Sciences: Biodiversity
7. Environmental Sciences: Land-use Planning and Assessment
8. Environmental Sciences: Environmental Pollution
9. Environmental Design Engineering
10. Energy Systems Engineering: Energy Technologies
12. Renewable Energies Engineering
13. Energy Economics
15. Remote Sensing and GIS: Soil and Water Resources
18. Environment Engineering: Air Pollution
19. Environment Engineering: Water and Wastewater
20. Environment Engineering: Water Resources
21. Environmental Geology
The curricula for the disciplines offered at the School are as follows:

**M.Sc in Environmental Management: Curricula**

**Prerequisite Courses**

1- Computer: Basics  
2- English: General Course  
3- English: Specialized Course  
4- Mathematical Statistics  
5- Introduction to Environment  
6- Environmental Pollution  
7- Principles of Management and Systems Theory  
8- Application of Statistics in Environmental Management  
6- Ecology of Wildlife and Natural Resources

**Mandatory courses**

1- Ecological Capacity Assessment  
2- Assessment of Development Impacts on Environment  
3- Research Methodology in Environmental Management  
4- Environmental Management and Planning  
5- Methods and Techniques of Environmental Management  
6- Sustainable Development and Environment  
7- Energy Management and Environment  
8-Environmental Management Workshop  
9- Management Seminar

**Optional courses**

1-Environment Education  
2-Iran’s Terrestrial and Marine Natural Ecosystems  
3-Environmental Management Standards and Regulations  
4- Politics and Law in Environmental Management  
5-Application of Statistics in Environmental Management  
6- GIS Application in Environment  
7- Economic Valuation of Natural Resources  
8-Waste Management
Ph.D in Environmental Management: Curricula

Prerequisite Courses
1- Economic Instruments in Environmental Management
2- Persistent Pollutants in Environment
3- Politics and Law in Environmental Management
4- Wildlife and Natural Resources Management
5- Application of Statistics in Environmental Management
6- English: Specialized Course

Mandatory courses
1- Regional and International Environmental Challenges
2- Modeling and Simulation in Environmental Management
3- Project Management
4- Industrial Ecology
5- Special Topics

Specialized Courses
1-Assessment of Energy Production Impacts on Environment
2-Advanced Methods and Techniques of Environmental Management
3-Health, Safety, Environment and Quality (HSEQ) Management System

Optional courses
1-Remote Sensing and GIS Application in Environmental Management and Assessment
2-Information and Communication Technology Application in Environmental Management
3-Integrated Management System (IMS)
4-Risk Assessment and Management in Environment
5-Public Education and Participation in Environment
6-Regional and Urban Environmental Management

M.Sc in Environmental Economics: Curricula
1- Computer: Basics
2- English Language: General Course
3- English Language: Specialized Course
4- Statistical Mathematics
5- An Introduction to the Environment
6- Environmental Pollution
7- Micro-economics
8- Macro-economics
9- Environmental Planning and Management
10- Environmental impact Assessment (EIA)
11- Fundamentals of Environmental Economics
12- Environmental Economics
13- Environmental Accounting
14- Economic Valuation of Natural Resources
15- Environmental Economics Workshop
16- Economics Seminar
17- Sustainable Development and Environment
18- Natural Ecosystems of Iran (Aquatic and Terrestrial)
19- Environmental Management Standards and Regulations
20- Energy Economics
21- Application of Statistics in Environmental Management
22- Geographic Information Systems (GIS) in Environment
23- Development Economics and the Third World Issues
24- Economy of Iran
25- Thesis

**M.Sc in Environmental Law: Curricula**

1-English Language: General Course
2-English Language: Specialized Course (1)
3-English Language: Specialized Course (2)
4-Computer: Basics
5-Introduction to Environment
6-Environmental Pollution
7-Environmental Degradation
8-Basics of Law
9-Principles of Environmental Law
10-Public International Law
11-Civil Law
12-Codes of Procedure
13-International Environmental Law
14-National Environmental Law
15-Criminal Environmental Law
16-Environmental Planning and Management
17-Assessment of Development Impacts on Environment
18-Workshop on Environmental Law
19-Seminar
20-Law of the Sea and International Law
21-Planning Acts and Environmental Policies
22-Human Rights and Environment
23-Civil Liabilities and Environmental Damages
24-National and International Organization
25-Law of Natural Resources and Water
26-Environmental Ethics
27-Solid and Hazardous Wastes Law
28-Thesis

**Ph.D in Environmental Law: Curricula**

1- Planning and Management
2- Environmental Pollution
3- Research Methodology In Law
4- Fundamentals of Law
5- Analysis of Principles of Environmental Law
6- National Environmental Law
7- International Environmental Law
8- Introduction to Environmental Legal Terms
9- Pollution Law
10- Natural Resources Law
11- Comparative Environmental Law
12- Analysis of International Law
13- International Liabilities of Governments Towards Environmental Damages
14- Claims and Defenses in Environmental Law
15- Courts Ruling and Judicial Precedents in Connection with Environmental Protection
16- Introduction to Judicial Proceedings of Environmental Claims in Courts (Practical)
17- Environmental Protection During Armed Conflicts
18- Legal Instruments for Resolving Regional and International Environmental Challenges
19- Textual Interpretation of Precautionary Environmental Rules
20- Concepts Sustainable Development in Environmental Law
21- Energy and Industrial Law
22- Civil Law, Citizenship and Environment
23- Seminar on Environment Law
24- Special Thematic subject
25- Thesis
M.Sc in HSE Management: Curricula

**Prerequisite Courses**
1- Computer: Basics
2- English Language: General Course
3- English Language: Specialized Course
4- Statistical Mathematics
5- Principles of Management and Systems Theory
6- Environmental Pollutions
7- Principles of Industrial Safety
8- Fundamentals of Occupational Health
9- HSE Research Methodology
10- An Introduction to Industrial Processes

**Mandatory Courses**
1- Occupational Health Management
2- Risk Management and job Safety
3- Management Advanced Theories
4- Human Resources Advanced Management
5- Organizational Behavior Advanced Management
6- Safety, Health and Environmental Management System
7- Environmental Pollutions Management and Control
8- HSE Regulations and Standards

**Optional courses**
1- Economic Valuation of Risk Management
2- Risk Management Workshop
3- Application of Statistics in HSE
4- Crisis Management
5- Waste Management
6- HSE Education Management

**Thesis**
Thesis
M.Sc in Environmental Education: Curricula
1- English Language: Specialized Course
2-Advanced Statistics and Research Methodology
3-Principles of Management
4-Principles of Planning
5-Principles of Sociology
6-Imam’s Testaments
7- Methods and Techniques of Environmental Planning, Management and Education (1)
8- Iran’s Natural Ecosystems (Terrestrial)
9-Economics of Development and the Third World Issues
10-Principles and Philosophy of Education Environmental Education Workshop (1)
11-Methods and Techniques of Environmental Planning, Management and Education (2)
12-Environmental Education Workshop (2)
13-Energy and Environment
14-Assessment of Development Impacts on Environment
15-Iran’s Natural Ecosystems (Marine)
16-Communications in Education
17- Mass Communications Techniques
18- Thesis

M.Sc in Environmental Sciences / Habitats & Biodiversity: Curricula

Mandatory courses
1- Vertebrates Management & Protected Areas
2- Land Use Planning
3- Geographical Information System in Environment
4- Industrial Pollution
5- Research Methodology
6- Thesis
7- Seminar

Specialized courses
1-Complementary Ecology of Vertebrates
2- Management of Wetland & Migratory Birds
3- Biodiversity Management
4- Evaluation of Habitats

Optional courses
1-Population Dynamics Analysis
2-Complementary Habitat Evaluation
3- Complementary Genetics
4- Chemistry of Pollutions
5- Surface & Ground Water Pollution
6- Sewage Treatment
7- Energy & Environment
8- Determination of Habitats Capacity
9- Computer based Land-use Planning
10- Plant Cartography
11- Ornithology
12- Urban Ecology
13- Advanced Statistical Methods
14- Computer Programming

**MSc. in Environmental Sciences / Environmental Pollution: Curricula**

**Mandatory courses**
1- Vertebrates Management & Protected Areas
2- Land-use Planning
3- Geographical Information System in Environment
4- Industrial Pollution
5- Research Methodology
6- Thesis
7- Seminar

**Specialized courses**
1- Marine Pollution
2- Wastes & Recycling
3- Complementary Environmental Pollution
4- Landfill Site Selection & Design

**Optional courses**
1- Population Dynamics Analysis
2- Complementary Habitat Evaluation
3- Complementary Genetics
4- Chemistry of Pollutions
5- Surface & Ground Water Pollution
6- Sewage Treatment
M.Sc in Environmental Sciences/ Land-use Planning and Assessment: Curricula

Mandatory courses

1-Vertebrates Management & Protected Areas
2- Land-use Planning
3- Geographical Information System in Environment
4- Industrial Pollution
5- Research Methodology
6- Thesis
7- Seminar

Specialized courses

1-Environmental Impacts Assessment
2-Complementary Remote Sensing
3- Land Evaluation
4- Assessment & Planning Workshop

Optional courses

1-Population Dynamics Analysis
2- Complementary Habitat Evaluation
3- Complementary Genetics
4- Chemistry of Pollutions
5- Surface & Ground Water Pollution
6- Sewage Treatment
7- Energy & Environment
8- Determination of Habitats Capacity
9- Computer based Land-use Planning
10- Plant Cartography
11- Ornithology
Ph.D in Environmental Sciences: Curricula

Mandatory courses

1- Trace Elements in Environment
2- Sustainable Development and Natural Resources
3- Environmental Geography of Iran
4- Interaction between Human and Eco-systems
5- Seminar

Optional courses for Environmental Pollution

1- Impact of Pollutants on Natural Resources
2- Radioactive Substances and Environment
3- Control Methods of Environmental Pollution
4- Wastes and Hazardous Wastes Management
5- Energy and Environment
6- Pollutants Sampling and Analysis
7- Environmental Law
8- Methods of Environmental Assessment
9- Seminar (2)
10- Remote Sensing and Its application in Environment
11- Geographical Information System (GIS) and its Application in Environment
12- Advance Research Methods

Optional courses for Habitats & Biodiversity

1- Assessment of Wetland Habitats
2- Assessment of Terrestrial Habitats
3- Complementary Ornithology
4- Multi – variable Statistics
5- Biodiversity Protection
6- Wildlife Protection
7- Advanced Behavioral Science
8- Methods of Environmental Assessment
9- Seminar (2)
10- Remote Sensing and Its application in Environment
11-Geographical Information System (GIS) and its Application in Environment
12- Advance Research Methods

**Optional courses for Environmental Land-use Planning and Assessment**

1- Ecological Assessment of Natural Resources
2- Environmental Law
3- Analytical Approaches in Environmental Case Studies
4- Environmental Requirements of the Society
5- Regional and International Environmental Issues
6- Remote Sensing and Its Application in Environment
7- Analysis of Environmental Assessment and Planning Methods
8- Methods of Environmental Assessment
9- Seminar (2)
10- Remote Sensing and Its application in Environment
11- Geographical Information System (GIS) and its Application in Environment

**M.Sc in Environmental Engineering: Air Pollution: Curricula**

**Prerequisite courses**

1- English Language: General Course
2- English Language: Specialized Course
3- Computer: Basics
4- Computer programming
5- Engineering Mathematics
6- Thermal & Fluid Mechanics
7- Introduction to Environmental Management & Planning
8- Water Treatment
9- Waste Water Treatment
10- Air pollution and Control
11- Solid Waste pollution and Control

**Optional courses**

1- Meteorology
2- Air Pollutants Emission Control
3- Atmospheric Pollution Control
4- Measurement & Evaluation of Air Pollutants
5- Industrial Ventilation
6- Noise Pollution and Control
7- Special Topics

**Seminar & Thesis**
1- Seminar
2- Thesis

**Ph.D in Environmental Engineering/Air Pollution: Curricula**
1- Processing & Recycling of Solid Waste
2- Composting
3- Hazardous Solid Waste
4- Meteorology
5- Air Pollutant Emission Control
6- Atmospheric Pollution Control
7- Measurement & Evaluation of Air Pollutants
8- Industrial Ventilation
9- Waste Water Treatment
10- Air pollution and Control
11- Solid Waste pollution and Control
12- Advanced Engineering Mathematics
13- Environmental modeling
14- Energy and Environment
15- Dissertation

**M.Sc in Environmental Engineering: Water and Wastewater: Curricula**

**Prerequisite courses**
1- English Language: General Course
2- English Language: Specialized Course
3- Computer: Basics
4- Computer programming
5- Engineering Mathematics: basics
6- Thermal & Fluid Mechanics

**Mandatory courses**
1- Introduction to Environmental Management Planning
2- Water Treatment
3- Waste Water Treatment
4- Air pollution Control
5- Solid Waste pollution Control

Optional courses
1- Water and Wastewater Treatment plant Design
2- Physical, Chemical and Biological Treatment Processes
3- Industrial Wastewater Treatment
4- Water and Wastewater Operation
5- Water Transfer and Distribution
6- Sewage and Surface Water Collection and Control
7- Wastewater Recovery and Reuse
8- Water and Wastewater Microbiology

Seminar & Thesis
1- Seminar
2- Thesis

Ph.D in Environmental Engineering: Water and Wastewater Curricula
1- Water Treatment
2- Wastewater Treatment
3- Air Pollution Control
4- Solid Waste Pollution Control
5- Water and Wastewater Treatment Plant Design
6- Physical, Chemical and Biological Treatment Processes
7- Industrial Wastewater Treatment
8- Water and Wastewater Operation Laboratory
9- Water Transfer & Distribution
10- Sewage and Surface Water Collection and Control
11- Wastewater Recovery & Reuse
12- Water and Wastewater Microbiology
13- Groundwater Resources Development
14- Groundwater Hydrology and Pollution
15- Advanced Hydrology
16- Surface Water Hydrodynamics
17- Surface and Groundwater Pollution
M.Sc in Environmental Engineering / Water Resources: Curricula
Prerequisite Courses
1-English Language: General Course
2- English Language: Specialized Course
3- Computer: Basics
4- Computer programming
5- Engineering Mathematics
6- Engineering Hydrology
7- Thermal & Fluid Mechanics
8- Water & Waste Water Chemistry & Microbiology

Mandatory courses
1- Introduction to Environmental Management and Planning
2- Water Treatment
3- Wastewater Treatment
4- Advanced hydrology
5- Surface & Ground Water Pollution

Optional courses
1- Ground Water Hydrology &Pollution
2- Surface Water Hydrodynamic
4- River Engineering
5- Sea Water Pollution & Control
6- Modeling and Water Quality Management
7- GIS & RS in Environment

Seminar & Thesis
1- Seminar
2- Thesis
M.Sc in Energies Systems Engineering: Energy and Environment: Curricula

Mandatory Courses
1- Principles of Renewable Energy (1)
2- Principles of Renewable Energy (2)
3- Applied Statistics & Mathematics
4- Energy Systems Design
5- Energy Conversion & Storage
6- Energy & Environment
7- Energy Auditing & Measurement Laboratory

Optional Courses
1- Systems Analysis & Energy Auditing
2- Solar Energy (Basics & applications)
3- Nuclear Energy (Basics & applications)
4- Wind Energy (Basics & applications)
5- Hydro Energy (Basics & applications)
6- Biomass & Biogas Energy (Basics & applications)
7- Bio Energy (Basics & applications)
8- Hydrogen Energy & Fuel cell
9- Energy Resources and Consumptions
10- Energy Management and Economics

M.Sc in Energy Systems Engineering / Energy Technologies:

M.Sc in Energy Systems Engineering / Energy Modeling:

Mandatory Courses
1- Energy Systems Analysis
2- Advanced Mathematical Programming
3- Process Engineering
4- Risk Analysis & Reliability
5- Basic Principles of Economics

Optional courses for Energy Systems
1- Energy Modeling
2- Energy & Environment
3- Optimal Development of Electrical Energy Systems
4- Exhaustible Resources Economics
5- Exergy Flow Optimization
6- Pinch Technology
7- Econometrics
8- Economy & Energy

Optional courses for Energy Technologies
1- Wind, Hydro, Biomass & Tidal Power Plants Technologies
2- Thermal, Solar, Hydrogen Power Plants Technologies
3- Oil Refining Engineering
4- Energy Intensive Industries
5- Energy Consumption in Material Engineering
6- Advanced Power Systems Operation
7- Electrical Energy Distribution Systems
8- Energy Conversion & Storage Technologies
9- Thermal Systems Design

Optional courses for Energy and Environment
1- Advanced Fluid Mechanics
2- Advanced Thermodynamics
3- Introduction To Environment
4- Energy: Environmental Side Effects
5- Environmental Pollutions
6- Pollution Reduction Techniques
7- Environmental Economics
8- Energy Recovery Systems
9- Environmental Assessment
10- Identification of Food Industries Pollutant

M.Sc in Energy Economics: Curricula

Prerequisite Courses
1- Petroleum Chemistry
2- Exploration and Extraction (Upstream)
3- Oil & gas refining (Downstream)
4- Crude Oil, Gas and Oil Products Transportation
5- Petrochemical Industries
6- Principles of Financial Management and Accounting
7- Microeconomics
8-Macroeconomics
9-English: Specialized Course
10-Econometrics

**Mandatory Courses**
1-Microeconomics
2-Macroeconomics
3-Econometrics
4-Economics of Natural Resources
5-Economics of Energy

**Optional Courses**
1- Economics of Development
2- Economy of Iran
3- International Trade
4- International Marketing
5- International Transport and Insurance
6- Principles of International Commercial Law and Finance

**M.Sc in Environmental Design Engineering: Curricula**

**Prerequisite Courses**
1- English Language: General Course
2- English Language: Specialized Course
3- Computer Application in Design
4- Introduction to Landscape
5- Preparatory Design Workshop
6- Mapping and Visual Design
7- Statistics and Research Method in Environmental Design
8- Introduction to the Environment

**Mandatory courses**
1- Environmental Design Principles
2- Garden History and Persian Garden
3- Environmental Design Workshop I
4- Environmental Design and Engineering Techniques
5- Environmental Planning and Design
6- Planting Design
7- Urban planning and Design
8- Environmental Design Workshop II
9- Seminar

**Optional courses**
1- Environmental Impact Assessment (EIA)
2- Environmental Design for Sustainability
3- Materials and Techniques of Construction
4- GIS in Environmental Design
5- Environmental Law
6- Advanced Environmental Design Computer Application
7- Environmental Aesthetics

**Thesis**

Thesis

**M.Sc in Remote Sensing and GIS: Curricula**

**Mandatory courses**
1- Computer and Graphic Software
2- Physics and Principles of Remote Sensing
3- Photogrammetry
4- Digital Image Processing and Interpretation
5- Geographic Information Systems Principles
6- Digital Terrain Model Structure DTM
7- Spatial Analysis using Geographic Information System

**Optional courses for Urban and Rural Studies**
1- Application of GIS and Remote Sensing in Urban and Rural Environment
2- Rural Development Planning in Iran
3- Urban Planning
4- Computer Programming
5- Software Programming
6- Soil Erosion
7- Environmental Studies in Rural Planning
8- Rural Management
Optional Courses for Soil and Water Resources
1- Soil Erosion
2- Computer Programming
3- Software Programming
4- Water Resources Planning in Iran
5- Satellite-based Oceanography
6- Satellite-Based Meteorology
7- Satellite Image Interpretation in Soil and Water Resources
8- Surface Water Hydrological Studies with emphasis on Iran
9- Underground Water Hydrological Studies with Emphasis on Iran

M.Sc in Environmental Geology: Curricula

Prerequisite Courses
1- Philosophy and Evolution of Geography
2- Fundamentals of Economic Geography
3- Fundamentals of Urban Geography
4- Fundamentals of Rural Geography
5- Cartography and Thematic Mapping

Mandatory Courses
1- Methodology of Research in Tourism
2- Geographical Schools and Theories
3- Theoretical Foundations of Planning
4- Geographical Technologies
5- Rural and Nomadic Tourism

Specialized Courses
1- Geotoursim
2- Biotoursim
3- Climate and Serenity in Ecotourism
4- Ecotoursim and Health
5- Ecotourism Design and Planning
6- Economics a, Marketing and Ecotourism
7- Ecotoursim Monitoring and Evaluation
8- Ecotourism Ethics, Statutes and Regulations
The School Strategic Plan

1. **Promote Research**
2. **Advance Learning**
3. **Accelerate Internationalization**

**Promote Research**

**Actions:**
- Actively seek and pursue research ideas - from faculty and staff members, students and individuals and organizations outside the university - that involve cross-unit participation
- Develop and refine interdisciplinary environmental and energy research projects and programs to address the changing needs of society
- Make joint, mutually beneficial faculty hires and contribute to salary support on a long- or intermediate-term basis
- Help departments recruit new faculty members with environmental and energy research interests
- Alert interested faculty members to opportunities for interdisciplinary environmental and energy research and outreach projects and to potential funding sources
- Help faculty and staff members prepare and submit interdisciplinary environmental and energy research proposals
- Provide logistical support to faculty and staff members for interdisciplinary environmental research projects
- Share indirect cost recovery accruing from extramural grants with the home departments of investigators, as appropriate
- Enhance cross-campus communication and networking on environmental and energy concerns
- Explore new ways to support schools, departments, and other units in environmental and energy research
- Develop and strengthen collaborative research projects with other public and private organizations at the state, national, and international levels
- Facilitate links with faculty members, departments, and schools at other universities to strengthen our own research activities
- Promote use of the Science and Research campus and community as a living laboratory to teach, test, and demonstrate environmentally and energy sound practices.
Advance Learning

A. General
Actions:

- Actively seek and pursue learning ideas - from faculty and staff members, students and individuals and organizations outside the university - that involve cross-unit participation
- Help promote department-based courses with environmental and energy content and where the school academic programs, encourage cross-listing with the institute
- Offer joint courses, with credit (and teaching budget) following the instructors
- Organize, sponsor, and promote environmental events and related activities jointly with other campus units whenever possible
- Seek the best applications of old and new instructional technologies to enhance the learning experience of students
- Make joint, mutually beneficial faculty hires that contribute to the institute's teaching mission
- Explore new ways to support schools, departments, and other units on environmental and energy matters
- Enhance cross-campus communication and networking on environmental and energy concerns
- Promote use of the community as a living laboratory to teach, test, and demonstrate environmentally sound practices
- Facilitate links with faculty members, departments, and schools at other universities to strengthen our own instruction, research, and outreach activities.

B. Graduate and Professional Education
Actions:

- Develop and refine interdisciplinary environmental graduate programs to address the changing needs of society
- Increase the pool of potential advisers for the school graduate students
- Strive to ensure financial support for as many school graduate students as possible
- Alert school graduate students to significant environmental and energy learning opportunities within University schools and departments and elsewhere in the country
• Involve more graduate students in special environmental and energy programs and opportunities, such as study abroad and internships

• Refer graduate student inquiries and applications received by the school to other academic units at University if the students’ goals would be better met there.

Accelerate Internationalization

Actions:

• Develop and strengthen collaborative instruction, research, and outreach projects with other public and private organizations at the international level
• Join other interested units in bringing international environmental and energy scholars and experts to campus as speakers or short- or long-term visitors.

Mission and Goals of the Graduate School Program:

The Graduate School of the Environment and Energy is designed to provide graduates with the necessary skills to make scientific, engineering and managerial decisions and provide leadership in environmental science, engineering and management as well as energy engineering careers.

The Graduate School programs combine environmental science, engineering, management and energy engineering, economics, policy, law and business concepts to prepare students in five areas:

1. Business Knowledge: Understanding of executive, strategic and operational business concepts as they apply to environmental and energy issues;

2. Analytical Skills: Use of quantitative mathematical/statistical methods as well as program-specific computer applications and online tools to assess and interpret data and other information whether it is of laboratory, field, engineering, financial or managerial origin;

3. Managerial Skills: Comprehension of the leadership, facilitation, negotiation and coordination techniques that are effectively used to address environmental and energy issues among employees, organizations, communities and nations;
4. Technical Knowledge: Problem solving in selected areas of regulatory compliance and enforcement; basic and applied the energy and environmental science; engineering and management for risk reduction; behavior- and audit-based hazard management systems and project administrative tasks;

5. Integrative Skills: Ability to integrate business knowledge, analytical skills, managerial skills and technical knowledge into effective actions and presentations.

Admissions

In addition to the requirements stated in Admission Policies, the student must hold a bachelor's degree in some branch of engineering or related science or present other evidence of adequate preparation for graduate study in Civil and Environmental Engineering.

Transfer of Credit

After being admitted, a student pursuing a graduate program leading to the master's degree may transmit a written petition to the Dean of the Graduate school requesting permission to transfer up to 6 graduate quarter credits taken while a graduate student in another recognized Graduate school to be applied toward the master's degree here. These credits cannot have been used to fulfill the requirements of a previous degree. The petition must be accompanied by a written recommendation from the Departmental Education Director.

It is the responsibility of the student to ensure that all requirements are satisfied well before the expected graduation date. In order to check this students are required to:

- prepare a coursework plan
- verify it with the checklist
- Obtain approval from their Department or educational Office of the school, before the end of their first quarter in the M.S. program.

2) Ph.D. Degrees:

The Doctor of Philosophy degree (Ph.D.) is intended for candidates with a high level of scholarship or personal finance support and with the ability and desire to conduct independent and original research in their chosen field of interest. A graduate student can become a candidate for the Ph.D. degree only by meeting definite requirements and standards of the Graduate school, Department and Program. The student's first step is to obtain a Master's degree. A student pursuing a master's degree within the Department who displays unusual capability may be encouraged his/her Master's Department to continue to work toward the Doctorate. Students may also be accepted directly into a Ph.D. degree program if they have received a
Master's degree from an accredited university and have been highly recommended by their previous program faculty to pursue a Doctor of Philosophy degree.

B. Graduate and Professional Education

Actions

- Develop and refine interdisciplinary environmental health graduate programs to address the changing needs of society
- Increase the pool of potential advisers for the department graduate students
- Strive to ensure financial support for as many department graduate students as possible
- Alert department graduate students to significant environmental health engineering and science learning opportunities within university schools and departments and elsewhere in the country
- Involve more graduate students in special environmental health programs and opportunities, such as study abroad and internships
- Refer graduate student inquiries and applications received by the school to other academic units at university if the students’ goals would be better met there.

Accelerate Internationalization

Actions

- Develop and strengthen collaborative instruction, research, and outreach projects with other public and private organizations at the international level
- Join other interested units in bringing international environmental health scholars and experts to campus as speakers or short- or long-term visitors.

Faculty Members

The Graduate School of the Environment and Energy enjoys the presence of the following faculties, as whose specialties and interests are briefly presented.
FULL PROFESSORS

- Majid Abbaspour
- Seyed Ahmad Mirbagheri
- Nematallah Khorasani
- Mahmoud Karami
- Mehdi Borghei
- Ghasemali Omrani
- Mahmoud Shariat
- Parvin Nassiri
- Majid Ahmadian
- Faramarz Moatar
- Mohammad Hassan Panjeshahi
- Sadegh Zibakalam Mofrad
Madjid Abbaspour
Full professor

- **Ph.D.** Environmental Engineering, Cornell University, New York, USA, 1980
- **M.Sc.** Thermal Energy, MIT, Massachusetts, USA
- **M.E.** Water Resources, MIT, Massachusetts, USA

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- **Responsibilities**
  - Science and Technology Advisor to the head of high expediency council of Islamic Republic of Iran
  - Dean of Marine Engineering Group, School of Mechanical Engineering, Sharif University of Technology
  - Dean of Graduate School of the Environment and Energy, Science and Research Branch, IAU

- **Division**
  Department of Environmental Engineering

- **Teaching interests**
  Renewable energy; Environmental pollution; Energy and Environment; Ocean engineering and wave theory; Modeling in Environmental engineering; Mathematical application in Environmental engineering

- **Research interests**
  Marine Industries; Ocean engineering; Renewable Energy; Energy Engineering; Environmental engineering

- **Membership in Scientific Associations**
  - Iranian Society of Environmentalists (IRSEN)
  - Iran Energy Economic Association (IEEA)
  - Iranian Association for Energy Economics (IAEE)
  - New York Academy of Science
  - American Society of Mechanical Engineering
Seyed Ahmad Mirbagheri  
Full Professor

- **Ph.D.** Civil Engineering-Water Resources and Environmental Engineering, University of California, Davis, USA, 1981.
- **M.Sc.** Civil Engineering- Water Resources, University of California, Davis, USA, 1977.
- **B.Sc.** Soil and Water Engineering, Tabriz University, Tabriz, Iran, 1974.

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- **Division**
  
  Department of Environmental Engineering – Water Resources

- **Teaching interests**
  
  Hydrology  
  Water quality modeling  
  Water resources engineering  
  River engineering and sediment transport  
  Water and wastewater treatment system design

- **Research interests**
  
  Modeling  
  Hydrology  
  Water and wastewater  
  Water quality and environmental engineering

- **Membership in Scientific Associations**
  
  Iranian Society of Environmentalists (IRSEN)  
  ASCE, AGFN  
  Iranian Civil Engineering Association  
  Iranian Environment Association
Nematollah Khorasani
Full professor

- **Ph.D.** Environment and Forest, BOKU University, Vienna, Austria, 1978.
- **M.Sc.** Environment and Forest, BOKU University, Vienna, Austria, 1975.
- **B.Sc.** Forestry, School of Natural Resources, University of Tehran, Karadj, Iran, 1973.

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- **Division**
  Department of Biodiversity

- **Teaching interests**
  Environmental science
  Natural resources ecology
  Sustainable development of natural resources

- **Research interests**
  Environmental science
  Environmental engineering
  Environmental management

- **Membership in Scientific Associations**
  The Iranian National Committee on Irrigation and Drainage (IRNCID)
  The Man and the Biosphere (MAB)
  International Union of Forest Research Organizations (IUFRO)
  Iranian Society of Environmentalists (IRSEN)
  Agriculture and Natural Resources Engineering Disciplinary Organization
Mahmoud Karami
Full professor

- **Ph.D.** Animal Ecology, Colorado University, Fort Collins, USA, 1981.
- **M.Sc.** Zoology, Tehran University, Tehran, Iran, 1977.
- **B.Sc.** Biology, Tehran University, Tehran, Iran, 1975.

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- **Division**
  Department of Biodiversity

- **Teaching interests**
  - Wildlife ecology
  - Habitat evaluation
  - Quantitative ecology
  - Population dynamics
  - Principles of vertebrate management

- **Research interests**
  - Population dynamics of Iranian wildlife
  - Habitat evaluation for Iranian mammals
  - Ecology and taxonomy of Iranian mammals
  - Impact assessment of development on habitats of Iranian wildlife

- **Membership in Scientific Associations**
  - IUCN – Species Survival of Mammalogists
  - American Society of Mammalogists
Mehdi Borghei
Full professor

- **Ph.D.** Environmental Engineering, Newcastle University, Newcastle, UK, 1976.
- **M.Sc.** Chemical Engineering, Newcastle University, Newcastle, UK, 1972.
- **B.Sc.** Chemical Engineering, Newcastle University, Newcastle, UK, 1971.

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**Division**

Department of Environmental Engineering – Water and Wastewater

**Teaching interests**

Bioprocess engineering
Industrial wastewater treatment and reactor design
Water and wastewater treatment systems design and engineering

**Research interests**

Environmental engineering
Environmental biotechnology
Water and wastewater engineering

**Membership in Scientific Associations**

Iranian Academy of Science
Public Health Engineering Association
Ghasemali Omrani
Full professor

- Ph.D. Environmental Protection, Ustus Leibig University, Giessen, Germany, 1973
- M.Sc. Agriculture, Ustus Leibig University, Giessen, Germany, 1969.
- B.Sc. -

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- Division
  Department of Environmental Engineering – Solid Waste

- Teaching interests
  Composting
  Biogas production
  Solid Waste Recycling
  Solid Waste Management
  Hazardous Wastes management

- Research interests
  Sanitary landfill
  Vermi compost and biocompost
  Solid Waste management and Recycling
  Hospital and hazard waste management

- Membership in Scientific Associations
  Iranian Society of Environmentalists (IRSEN)
  Iranian Association of Environmental Health (IAEH)
Mahmoud Shariat
Full professor

- **Ph.D.** Environmental Health, Tulane University, USA, 1976.
- **Dr.** Pharmacy, Tehran University, Tehran, Iran, 1960.

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- **Division**
  
  Department of Land use Planning

- **Teaching interests**

  Environmental pollution
  Environmental impact assessment

- **Research interests**

  Water pollution
  Methods of impact assessment
  Environmental impact assessment

- **Membership in Scientific Associations**

  Iranian Society of Environmentalists (IRSEN)
  Iranian Association of Environmental Health (IAEH)
Parvin Nassiri
Full professor

- **Ph.D.** Physics, Universite' des Sciences et Techniques du Languedoc, Montpellier, France, 1980.
- **M.Sc.** Health Physics, Tehran University, Tehran, Iran, 1975.
- **B.Sc.** Physics, National University of Iran, Tehran, Iran, 1970.

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- **Division**
  Department of HSE Management

- **Teaching interests**
  - Noise and vibration pollution
  - Pollution assessment and control
  - ESP in environmental engineering
  - Ionizing and non-ionizing radiation protection
  - Health, safety and environmental management
  - Magnetic and electronic fields in industry and environment

- **Research interests**
  - Physics
  - Environment
  - Health physics
  - Health, safety & Environment (HSE)

- **Membership in Scientific Associations**
  - Iranian Society of Environmentalists (IRSEN)
  - Iranian Physics Society
  - Iranian Occupational Health Association (IOHA)
Majid Ahmadian
Full professor

- **M.Sc.** Economics, Tehran University, Tehran, Iran, 1978.
- **B.Sc.** Economics, Tehran University, Tehran, Iran, 1976.

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- **Division**

  Department of Environmental Economics

- **Teaching interests**

  Resource Economics (Exhaustible and renewable)
  Economics Valuing of Environmental Resources
  Microeconomics
  Environmental National Account
  Environmental Economics
  Energy Economics

- **Research interests**

  Water Economics
  Environmental Industrial Economics
  Oil and Energy Economics
  Effects of Government Policies on Energy

- **Membership in Scientific Associations**

  Iranian Economics Association
  Energy Economics Association
  Iranian Society of Environmentalists (IRSEN)
Faramarz Moattar
Full professor

- **Ph.D.** Nuclear Chemistry, Karlsruhe University of Engineering, Karlsruhe, Germany, 1971.
- **M.Sc.** Nuclear Chemistry, Karlsruhe University of Engineering, Karlsruhe, Germany, 1967.
- **B.Sc.** Nuclear Chemistry, Karlsruhe University of Engineering, Karlsruhe, Germany, 1964.

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- **Division**
  Department of Environmental Engineering – Air Pollution

- **Teaching interests**
  Environment and energy
  Environmental pollution
  Radioactive materials in environment

- **Research interests**
  Nuclear science
  Nuclear engineering
  Environmental pollution

- **Membership in Scientific Associations**
  Iranian Nuclear Social
  Environmental Social
  Physical Social of Iran
  Chemical Engineering Social of Iran
Mohammad Hassan Panjeshahi

Full Professor

- Ph.D. Chemical Engineering, UMIST University, UK, 1992.
- B.Sc. Oil Refining, Sharif University of Technology, Iran, 1985.

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- Division

Department of Energy Systems – Energy Technologies

- Teaching interests

Pinch Analysis
Energy Analysis
Co-Generation

- Research interests

Process Integration
Pinch and Exergy Analysis
Energy Conservation
Renewable Energy
Chemical Engineering,
Water Treatment
Sadegh Zibakalam Mofrad

Full Professor

- **Ph.D.** Peace Studies, University of Bradford, UK, 1989
- **M.Sc.** MBA, Harvard University In cooperation with Industrial Management Institute of Tehran, USA / Iran, 1974
- **M.Sc.** Chemical Engineering, University of Bradford, UK, 1973
- **B.Sc.** Chemical Engineering, University of Huddersfield, UK, 1971

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- **Division**
  
  Department of Environmental Law

- **Teaching interests**
  
  Civil Law, Citizenship and Environment
  Human Rights and Environment

- **Research interests**
  
  Modern Iranian Political Development
ASSOCIATE PROFESSORS

- Morteza Khalajiasadi
- Aliasghar Alesheikh
- Amirhesam Hassani
- Hassanali Laghai
- Amirhossein Javid
- Nabiollah Mansouri
- Alireza Gharagozlou
- Akramolmolouk Lahijanian
Morteza Khalajiasadi
Associate Professor

- **B.Sc.** Machine design, Science and Technology University of Iran, Tehran, Iran, 1975.

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- **Division**
  Department of Energy System – Energy and Environment

- **Teaching interests**
  - Renewable energy
  - Power plant design
  - Energy saving in building
  - Energy management in industries

- **Research interests**
  - Renewable energy (Wind, Solar)

- **Membership in Scientific Associations**
  - Iranian Solar Energy Society
Ali Asghar Alesheikh
Associate Professor

- **Ph.D.** Geospatial Information System, University of Calgary, Calgary, Canada, 1997.
- **M.Sc.** Geomatics Engineering, University of New Brunswick, Fredericton, Canada, 1992.
- **B.Sc.** Geomatics Engineering, KNT University of Technology, Tehran, Iran, 1987.

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- **Division**
  Department of Remote Sensing and GIS

- **Teaching interests**
  Remote sensing
  Environmental modeling
  Geospatial Information System (GIS)
  Spatial Decision Support System (SDSS)

- **Research interests**
  GIS modeling
  Uncertainty in GIS
  GIS/RS applications
  GIS and artificial intelligence
Amir Hessam Hassani
Associate Professor

- **Ph.D.** Environmental Engineering, Islamic Azad University, Science and Research Branch, Tehran, Iran, 2000.
- **M.Sc.** Environmental Engineering, Islamic Azad University, Science and Research Branch, Tehran, Iran, 1994.
- **B.Sc.** Applied Chemistry, Islamic Azad University, Tehran, Iran, 1991.

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- **Division**
  Department of Environmental Engineering – Water and Wastewater

- **Teaching interests**
  Fluid mechanic
  Water pollution
  Water quality control
  Water and wastewater treatment
  Water and wastewater treatment plant design

- **Research interests**
  Sludge treatment and optimization
  Water quality and water pollution control
  Industrial and urban wastewater treatment and wastewater reuse
  Water treatment by membrane technology/ ion exchange technology
  Wastewater treatment by nanofilter technology/sequence batch reactors

- **Membership in Scientific Associations**
  Iranian Society of HVAC
  Society of Water and Wastewater
  Urban Environmental Committee
  Iranian Society of Environmentalists (IRSEN)
Hassanali Laghai

Associate Professor

- **Ph.D.** Architecture, University of Florence, Italy, 1985
- **M.Sc.** Architecture, University of Tehran, Iran, 1980
- **B.Sc.** Architecture, University of Tehran, Iran, 1975

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- **Division**
  Department of Environmental Design

- **Teaching interests**
  Environmental Design Principles
  Introduction to Landscape
  Environmental Design Workshop

- **Research interests**
  Architecture
  Urbanization
  Environmental Design
Amirhossien Javid
Associate Professor

- **Ph.D.** Environmental Engineering, Islamic Azad University, Science and Research Branch, Tehran, Iran, 2001.
- **M.Sc.** Civil Engineering, Shiraz University, Shiraz, Iran, 1984.
- **B.Sc.** Sanitary Engineering, IMS University, Tehran, Iran, 1980.

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**Division**

Department of Environmental Engineering – Water Pollution

**Teaching interests**

River engineering
Wastewater treatment
Mathematical engineering
Sewerage and runoff network design
Surface and underground water pollutions

**Research interests**

Water and wastewater treatment
Pollution modeling (sea and river)
Environmental Impact Assessment (EIA)

**Membership in Scientific Associations**

Iranian Society of Environmentalists (IRSEN)
World Energy Council, National Energy Committee
Iranian Water Resources Association (IR- WRA)
Marine Science and Technology Society
Iranian Petroleum Institute
Nabiollah Mansouri
Associate Professor

- **Ph.D.** Environmental Engineering, Islamic Azad University, Science and Research Branch, Tehran, Iran, 2003.
- **M.Sc.** Occupational Health, Tehran University of Medical Sciences, Iran, 1991.
- **B.Sc.** Biology, Kermanshah University, Kermanshah, Iran, 1988.

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- **Division**
  Department of HSE Management
  Department of Environmental Engineering – Air Pollution

- **Teaching interests**
  Air pollution
  Research methods
  Risk management
  Industrial ventilation, environmental pollutions

- **Research interests**
  Air pollution
  Air pollutants measurement
  Risk management
  Air pollutants control in workplaces

- **Membership in Scientific Associations**
  Iranian Society for Occupational Health
  Iranian Society of Environmentalists (IRSEN)
Alireza Gharagozlu

Associate Professor

- **Ph.D.** Environmental Management, Islamic Azad University, Science and Research Branch, Tehran, Iran, 2003.
- **M.Sc.** Environmental Engineering, University of Tehran, Tehran, Iran, 1998.
- **B.Sc.** Geomatics Engineering, K.N. University, Tehran, Iran, 1992.

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- **Division**
  Department of Remote Sensing and GIS

- **Teaching interests**
  - Geo-spatial Information Systems- GIS
  - Remote sensing and photogrametry
  - Digital mapping and image interpretation
  - Land use planning – environmental planning and assessment

- **Research interests**
  - Natural disaster and GIS/RS
  - GIS/RS and development planning
  - EIA and GIS Environmental modeling and GIS
  - Urban planning – Environmental planning and GIS

- **Membership in scientific associations**
  - Iranian GIS/RS Society (IRSGS)
  - Iranian Society of Environmentalists (IRSEN)
  - International Society for Photogrametry and Remote Sensing (ISPRS)
Akramolmolouk Lahijanian
Associate Professor

- **Ph.D.** Environmental Engineering Education, University of Madras, India, 2003. /Educational Management, Islamic Azad
- **M.Sc.** Environmental Management, University of Kerala, Kerala, India, 1998. / Educational Planning, University of Tehran, Tehran, Iran, 1995.
- **B.Sc.** Geography, University of Tehran, Tehran, Iran, 1984.

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E-mail: lahijanian@hotmail.com

- **Division**
  Department of Environmental Management

- **Teaching interests**
  - Research methods
  - Public participation
  - Environmental education
  - Environmental management and planning

- **Research interests**
  - Social science
  - Behavioral science
  - Environmental management

- **Membership in Scientific Associations**
  - Association of Canadian Community Colleges (ACCC)
  - Environmental Studies Association of Canada (ESAC)
  - American Society for Engineering Education (ASEE)
  - Editorial Consultant in Journal of Indian Academy of Applied Psychology
ASSISTANT PROFESSORS

- Reza Arjmandi
- Seyed Masoud Monavari
- Mostafa Panahi
- Alireza Vafaeinejad
- Aida Biati
- Zahra Abedi
- Hamidreza Ghaffarzadeh
- Farideh Atabi
- Farzam Babaei
- Ali Mohammadi
- Hooman Farzaneh
- Parvin Farshchi
- Alireza Haji Seyed Mirzahosseini
- Mohamad Reza Miri Lavasani
- Lobat Taghavi
- Hossein Mousavi Fatemi
- Mohamad Reza Moghaddam
- Mohammad Reza Tabesh
- Borhan Riazi
- Mir Masoud Kheirkhah
- Tourdj Dana
- Bahram Aminipouri
- Khosrow Bakhtari
- Dariush Karimi
- Abdolreza Karbassi
- Mansour Pournouri
- Hossein Ghadamian
- Abdul Razaq Kaabi-nejadian
Reza Arjmandi
Assistant professor

- **Ph.D.** Environmental Management, Islamic Azad University, Science and Research Branch, Tehran, Iran, 2000.
- **B.Sc.** Agriculture-Plant Protection, Tehran University, Tehran, Iran, 1969.

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- **Division**
  Department of Environmental Management

- **Teaching interests**
  - Project management
  - Iran natural ecosystem
  - Principle of management
  - Environmental management
  - Sustainable development and environment

- **Research interests**
  - Environmental economy
  - Sustainable development
  - Environmental management
  - Urban management and environment
  - Pesticides impacts to the environment

- **Membership in Scientific Associations**
  - Iran Rice Society
  - Iran Entomologists Society
  - Tehran University Agricultural Graduated Society
  - Iranian Society of Environmentalists (IRSEN)
Seyed Masoud Monavari
Assistant Professor

- **Ph.D.** Environmental Science, Islamic Azad University, Science and Research Branch, Tehran, Iran, 1999.
- **B.Sc.** Regional Planning, University of Esfahan, Isfahan, Iran, 1977.

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- **Division**
  Department of Land Use Planning and Assessment

- **Teaching interests**
  - Land use planning
  - Solid waste management
  - Soil waste disposal design
  - Environmental assessment workshop
  - Environmental management workshop
  - Environmental Impact Assessment (EIA)

- **Research interests**
  - Solid waste
  - Land use planning
  - Environmental Impact Assessment (EIA)

- **Membership in Scientific Associations**
  - International Association of Impact Assessment
  - Iranian Society of Environmental Assessment
  - Iranian Society of Environmentalists (IRSEN)
Mostafa Panahi
Assistant Professor

- **Ph.D.** Forest and Environmental Economics, University of Tehran, Tehran, Iran, 2005.
- **M.Sc.** Forest Economics, Tarbiat Modarres University, Tehran, Iran, 1994.
- **B.Sc.** Forestry and Forest Engineering, University of Tehran, Tehran Iran, 1990.

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- **Division**
  Department of Environmental Economics
  Department of Energy Economics

- **Teaching interests**
  Environmental valuation
  Environmental economics
  Ecosystem assessment; goods and services
  Environmental and natural recourses policies and management

- **Research interests**
  Environmental economics
  Environmental valuation
  Ecosystem assessment; goods and services
  Environmental and natural recourses policies
  Biodiversity resources

- **Membership in scientific associations**
  Roster of Experts in Convention on Biological Diversity (CBD)
  Group de Recherché sur l’Environnement et de la Gouvernance (GREG)
Alireza Vafaeinejad
Assistant Professor

- Ph.D. GIS Engineering, KNT University, Tehran, Iran. 2009
- M.Sc. GIS Engineering, KNT University, Tehran, Iran. 2002
- B.Sc. Surveying Engineering, KNT University, Tehran, Iran. 2002

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- **Division**
  Department of Remote Sensing and GIS

- **Teaching interests**
  Spatio-Temporal GIS
  Enterprise GIS
  Mobile GIS
  Web GIS
  Urban GIS

- **Research interests**
  Using Optimization Methods in GIS
  Spatial Web Service
  Applied GIS
  Navigation and Way Finding
  Digital Mapping and Virtual Reality

- **Membership in Scientific Associations**
  Editorial Board- Journal of Environmental Management and Planning
Aida Biati

Assistant Professor

- **Ph.D.** Environmental Science, Islamic Azad University, Science and Research Branch, Tehran, Iran, 2011
- **M.Sc.** Environmental Science, Islamic Azad University, Science and Research Branch, Tehran, Iran, 2006.
- **B.Sc.** Natural Resources Engineering-Environment, Islamic Azad University, Ahvaz Branch, Ahvaz, Iran, 2003.

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- **Division**
  Department of Environmental Pollution

- **Teaching interests**
  Water resources pollution, Sediments Geochemistry, Solid waste management, Advanced Environmental Pollution, Site selection and landfill design

- **Research interests**
  Environmental Pollution (Water, Air, Soil and Solid wastes) Sediments Geochemistry, Energy and Environment

- **Membership in scientific associations**
  Iranian Society of Environmentalists (IRSEN)
  Agricultural and Natural Resources Engineering Organization
Seyed Alireza Mirzahosseini
Assistant Professor

- Ph.D. Environmental Engineering, Islamic Azad University, Science and Research Branch, Tehran, Iran, 2012

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- Division
  Department of Energy Systems Engineering

- Teaching interests
  Fundamentals of Occupational Health
  Principles of Industrial Safety
  Risk Management and Job Safety
  Computer programming
  Air Pollution Sampling Methods
  Environmental Management

- Research interests
  Air Pollution
  HSE Management
  Renewable Energies (Photovoltaic)
  Remote Sensing and GIS
  Solid Waste

- Membership in scientific associations
  Iranian Society of Environmentalists (IRSEN)
  Iranian Solar Energy Scientific Society
  Agricultural and Natural Resources Engineering Organization
Zahra Abedi  
Assistant Professor

- **Ph.D.** Economic Sciences, Islamic Azad University, Science and Research Branch, Tehran, Iran, 1994.
- **M.Sc.** Economic Sciences, Shahid Beheshti University, Tehran, Iran, 1988.
- **B.Sc.** Economic Sciences, Shiraz University, Shiraz, Iran, 1978.

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- **Division**

  Department of Environmental Economics

- **Teaching interests**

  Environmental economic  
  Energy modeling and planning  
  Optimization of economic systems  
  Economic development and planning  
  Economic evaluation of natural and environmental recourses

- **Research interests**

  Green accounting  
  Sustainable development  
  Energy planning and modeling  
  Evaluation of natural and environmental recourses

- **Membership in Scientific Associations**

  Economic Association  
  Iranian Society of Environmentalists (IRSEN)  
  Railway Transport Association
Hamidreza Ghaffarzadeh
Assistant Professor

- **M.Sc.** Economics, University of Essex, Essex, UK, 1976
- **B.Sc.** Economics, University of Tehran, Tehran Iran, 1990.

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**Division**

Department of Environmental Economics

**Teaching interests**

- Environmental Economics
- Sustainable Development
- Disaster Management
- Macro Economics

**Research interests**

- Environmental economics
- Biodiversity resources
- English Language: Specialized Course

**Membership in scientific associations**

- Environmental Specialist
Farideh Atabi
Assistant professor

- B.Sc. Mechanical Engineering, Science and Technology University of Iran, Tehran, Iran, 1986.

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- Division
  Department of Environmental Engineering – Air Pollution

- Teaching interests
  Air Pollution Modeling
  Energy and the Environment
  Air Pollution, (Origin and Control)
  Renewable Energies and the Environment

- Research interests
  Renewable Energy
  Air Pollution Modeling
  Energy and the Environment
  Energy Efficiency and Conservation
  Energy Economics and Environmental Economics

- Membership in Scientific Associations
  Iranian Society of Environmentalists (IRSEN)
  Iran Energy Association (IEA)
  Iranian Association for Energy Economics (IRAEE)
  Iranian Solar Energy Society (IRSES)
  Iranian Mechanical Engineering Society
Farzam Babaei
Assistant Professor

- **Ph.D.** Environmental Management, Islamic Azad University, Science and Research Branch, Tehran, Iran, 2011
- **M.Sc.** Environmental Science, Islamic Azad University, Science and Research Branch, Tehran, Iran, 2004.
- **B.Sc.** Biology, Islamic Azad University, North Tehran Branch, Tehran, Iran, 1999.

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- **Division**
  Department of Environmental Education

- **Teaching interests**
  Environmental Education
  Environmental Management

- **Research interests**
  Environmental Pollutions
  Water and Groundwater Pollution
  Environmental Education
  Environmental Management

- **Membership in Scientific associations**
  Iranian Society of Environmentalists (IRSEN)
Ali Mohammadi
Assistant Professor

- **Ph.D.** Environmental Management, Islamic Azad University, Science and Research Branch, Tehran, Iran, 2011
- **M.Sc.** Mechanical Engineering, Islamic Azad University, Science and Research Branch, Tehran, Iran, 2004.
- **B.Sc.** Mechanical Engineering, University of Sacramento, Sacramento, California, USA

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- **Division**
  Department of Environmental Management

- **Teaching interests**
  Environmental Planning and Management
  Principles of Environmental Planning
  English Language: Specialized Course

- **Research interests**
  Environment and Energy Planning and Management
  Energy Management
  Energy and Environment

- **Membership in scientific associations**
  Iranian Society of Environmentalists (IRSEN)
Hooman Farzaneh
Assistant Professor

- **Ph.D.** Energy Engineering, Islamic Azad University, Science and Research Branch, Tehran, Iran, 2007.
- **M.Sc.** Energy Engineering, Islamic Azad University, Science and Research Branch, Tehran, Iran, 2000.
- **B.Sc.** Chemical Engineering, Islamic Azad University, North Tehran Branch, Tehran, Iran, 1998.

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- **Division**
  Department of Energy Engineering – Modeling

- **Teaching interests**
  Energy modeling
  Process engineering
  Energy management in industries
  Energy management and auditing workshop

- **Research interests**
  Heat recovery system design
  Energy management in industries
  Energy system modeling and simulation
  Fuel management in transportation sector

- **Membership in Scientific Associations**
  Solar Energy Association
Parvin Farshchi
Assistant Professor

- **M.Sc.** Marine Science, Meerut University, Meerut, India, 1987.
- **B.Sc.** Science, Meerut University, Meerut, India, 1985.

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- **Division**
  Department of Environmental Pollution

- **Teaching interests**
  Marine Pollution
  Marine Ecosystem
  Coastal Management
  ESP in Environmental Studies

- **Research interests**
  Coastal Management
  Environmental Pollution
  Environmental Governance
  International and Regional Environmental Cooperation and Management

- **Membership in Scientific Associations**
  Life Member and Fellow of the Society of Biosciences, India
  Life Member of the Indian Fisheries Association
  Fishery Technologists Society of India
  Life Member of the Society of Ocean Scientists and Technologists of India
  Marine Biological Association of India
  Iranian Society of Environmentalists (IRSEN)
Mohammad Reza Miri Lavasani

Assistant Professor

- **Ph.D.** Quantitative risk management of offshore structure
  Liverpool John Moores University, Liverpool, UK 2010.
- **M.Sc.** Offshore structural Engineering, Liverpool John Moores
  University, Liverpool, UK 2007.
- **B.Sc.** Civil Engineering, Islamic Azad University, South Tehran Branch
  Tehran, Iran, 2003

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- **Division**
  Department of HSE Management

- **Teaching interests**
  - Risk management and job safety analysis
  - Reliability engineering
  - Crisis management
  - Risk Assessment
  - Statistical Mathematics
  - Advanced Engineering Mathematics
  - Offshore Engineering
  - Offshore Drilling

- **Research interests**
  - Safety, Health and Environmental Management System
  - Application of Statistics in HSE
  - Crisis management
  - Risk and Reliability Assessment of Offshore System
  - Decision Making Studies in Oil and Gas Systems

- **Membership in scientific associations**
  - The Institute of Marine Engineering, Science & Technology (IMarEST)
Lobat Taghavi
Assistant Professor


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- Division
  Department of Environmental Education

- Teaching interests
  Environmental Science
  Environmental Pollution
  Research Methodology
  Sustainable Development and Environment
  Aquatic and Terrestrial Ecosystems

- Research interests
  Environmental Pollutions
  Environmental Baseline Study
  Environmental Impact Assessment (EIA)
  Marine Pollution
  Water and Groundwater Pollution
  Waste Management

- Membership in scientific associations
  Iranian Society of Environmentalists (IRSEN)
Seyed Abbas Pourhashemi
Assistant professor

- M.Sc. International Law, Nancy-Université, Lorraine, France, 2002
- B.Sc. Political Science, Iran, 1999.

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- Division

Department of Environmental Law

- Teaching interests

International Environmental Law
Public International Law
Planning Acts and Environmental Policies
Environmental Ethics

- Research interests


- Membership in Scientific Associations

Scientific Council at the University
Iranian Judiciary Bar
International Bar Association
Babak Naeimi
Assistant Professor

- **Ph.D.** Spatial ecology and Biogeography, University of Twente, The Netherlands, 2013
- **M.Sc.** GIS & Remote Sensing, KNT University, Tehran, Iran, 2000
- **B.Sc.** Natural Resources: Rangeland & Watershed Management, Gorgan University of Agricultural Sciences and Natural Resources, Gorgan, Iran. 1998

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- **Division**
  Department of Remote Sensing and GIS

- **Teaching interests**
  Geographic Information Systems Principles
  Spatial Analysis using Geographic Information System

- **Research interests**
  Spatio-temporal statistics
  Spatial ecology and biogeography; species distribution modeling
  Climate Change and its consequence on ecological systems
  Open-source software development
Abtin Ataei

Assistant Professor

- **Ph.D.** Energy Engineering, Islamic Azad University, Science and Research Branch, Tehran, Iran, 2008.
- **M.Sc.** Energy Engineering, Islamic Azad University, Science and Research Branch, Tehran, Iran, 2002.
- **B.Sc.** Applied Physics, Isfahan University of Technology Isfahan, Iran, 1997.

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- **Division**
  Department of Energy System – Energy Technologies

- **Teaching interests**
  - Energy Systems Analysis
  - Advanced Pinch Technology
  - Advanced Energy Analysis
  - Heat and Mass Transfer
  - Energy Saving in industries

- **Research interests**
  - Process Integration Using Pinch and Exergy Analysis
  - Combined Thermal and Water Pinch Analysis
  - Combined Heat and Power Analysis

- **Membership in scientific associations**
  - National Energy Committee of Iran
  - Iranian Energy Society
  - Iranian Environmentalist Society
  - Islamic Azad University Graduate Society
  - Isfahan University of Technology Graduate Society
Farhad Dabiri
Instructor

- **M.Sc.** Criminal Law, Shahid Beheshti University, Tehran, Iran, 1974.
- **B.Sc.** Juridical Law, Shahid Beheshti University, Tehran, Iran, 1971.

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- **Division**
  
  Department of Environmental Law

- **Teaching interests**
  
  Environmental laws
  National criminal law
  Environmental organizations

- **Research interests**
  
  Environmental laws
  Environmental organizations
  Biodiversity and natural resources law

- **Membership in Scientific Associations**
  
  Iranian Society of Environmentalists (IRSEN)
  Centre for Peace and Environment
  Environmental Law Association of Iran (ELAI)
  Environmental and Tourism Committees of Research and Planning Centre
Hossein Moosavi Fatemi
Instructor

- M.Sc. Environmental Design Engineering, University of Tehran, 1998
- B.Sc. Horticultural Engineering, University of Tabriz, 1993

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- Division
  Department of Environmental Design

- Teaching interests
  Perceiving, Perception and Drawing Studio
  Principles of Environmental Design Engineering
  Environment and Landscape Design Techniques
  Environmental Design Studio (I and II)

- Research interests
  Landscape Design and Land Art
  Sustainable Design Ecotourism Development
  Cultural Landscape Design
  Theme Parks Design

- Membership in scientific associations
  Iran Society Landscape Architects (ISLAP)
Mohammad Reza Moghadam
Assistant Professor

- **M.Sc.** Energy Engineering, Islamic Azad University, Science and Research Branch, Tehran, Iran, 2000
- **B.Sc.** Chemistry, University of Tehran, Iran, 1977.

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- **Division**
  
  Department of Energy Systems – Energy Technologies

- **Teaching interests**

  Economics and Natural Resources  
  Management and Energy Economics  
  Renewable Energies Economics

- **Research interests**

  Oil and Gas Reserves  
  Energy Systems Design  
  Energy Value

- **Membership in scientific associations**

  Board of Directors of NIOC  
  Board of Iran Continent Oil Company  
  Board of Directors of National Iranian Oil Regions
Mohammadreza Tabesh
Assistant Professor

- **Ph.D.** Natural Resources Engineering, Islamic Azad University, Science and Research Branch, Tehran, Iran, 2006
- **M.Sc.** Natural Resources, University of Tehran, Tehran, Iran, 2002.
- **B.Sc.** Natural Resources, University of Tehran, Tehran, Iran, 2000.

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- **Division**
  Department of Biodiversity

- **Teaching interests**
  Sustainable development in Environmental law
  Environmental Science
  Natural Resources
  Forestry

- **Research interests**
  Natural Resources
  Forestry
Borhan Riazi
Assistant Professor

- **Ph.D.** Environmental Management, Islamic Azad University, Science and Research Branch, Tehran, Iran, 2001.
- **M.Sc.** Environmental Studies, Shahid Beheshti University, Tehran, Iran, 1985.
- **B.Sc.** Natural Resources, Tehran University, Tehran, Iran, 1970.

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- **Division**
  Department of Biodiversity

- **Teaching interests**
  Protected areas  
  Wetlands management  
  Terrestrial and aquatic ecosystems  
  Natural and biological geography of Iran  
  Land (Environment) ecological evaluation

- **Research interests**
  Protected areas  
  Wetlands management  
  Terrestrial and aquatic ecosystems  
  Natural and biological geography of Iran  
  Land (Environment) ecological evaluation

- **Membership in Scientific Associations**
  Iranian Society of Environmentalists (IRSEN)  
  Iranian Society of Watershed Management
Mir Masoud Kheirkhah Zarkesh  
Assistant Professor

- **Ph.D.**  Water Resources (Geo-Information Technology), Wageningen University, Wageningen, The Netherlands, 2004.
- **M.Sc.**  Water Resources(Geo-Information Technology), ITC University, Enschede, The Netherlands, 1997.
- **B.Sc.**  Hydraulic and Irrigation, Tabriz University, Tabriz, Iran, 1991.

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- **Division**  
Department of Remote Sensing and GIS

- **Teaching interests**  
  - GIS, DSS  
  - Remote Sensing  
  - Water resources  
  - Research methodology  
  - Soil and water resources  
  - Geo-information technology

- **Research interests**  
  - Soil and water aspects  
  - Site selection using new methods  
  - Information technology and land use planning  
  - Application of RS and GIS and DSS on earth science

- **Membership in Scientific Associations**
  - Iranian Watershed Management Institute  
  - Iranian Water Resources Institute  
  - Iranian Hydraulic Association
Tooraj Dana  
Assistant Professor

- **Ph.D.** Environmental Management, Islamic Azad University, Science and Research Branch, Tehran, Iran, 2011  
- **M.Sc.** Agricultural Engineering, Islamic Azad University, Science and Research Branch, Tehran, Iran, 1997  
- **B.Sc.** Agricultural Engineering, Islamic Azad University, Noshahr Branch, Noshahr, Iran, 1990.

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- **Division**  
  Department of HSE Management

- **Teaching interests**  
  HSE Research Methodology  
  HSE Regulations and Standards  
  Management Advanced Theories  
  Crisis Management

- **Research interests**  
  HSE Management in Oil and Gas Industries  
  Risk Management  
  Environmental Management  
  Air Pollution and Traffic Management

- **Membership in scientific associations**  
  Agricultural and Natural Resources Engineering Organization  
  Iranian Society of Environmentalists (IRSEN)
Bahram Aminipouri
Assistant Professor

- **M.Sc.** Engineering Hydrology, Newcastle Upon Tyne University, Newcastle Upon Tyne, England 1987.
- **B.Sc.** Irrigation Engineering, Shahid Chamran (Jundishapour) University, Ahwaz, Iran, 1978.

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- **Division**
  Department of Remote Sensing and GIS

- **Teaching interests**
  Applied and Advanced Engineering Hydrology
  Hydraulic Engineering
  Fluid Mechanic
  Irrigation Engineering

- **Research interests**
  Applied and Advanced Engineering Hydrology
  Hydraulic Engineering
  Fluid Mechanic
  Irrigation Engineering

- **Membership in Scientific Associations**
  Iranian Hydraulic Association
Khosrow Bakhtari
Assistant Professor

- B.Sc. Mechanical Engineering, University of Tabriz, Iran, 1975.

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- Division
  Department of Energy Systems – Energy Technologies

- Teaching interests
  Energy Systems Design
  Thermal, Solar, Hydrogen Power Plants Technologies
  Electrical Energy Distribution Systems

- Research interests
  Hydropower plant development
  Hydro-electric energy

- Membership in scientific associations
  Member of Technical Committee for design of Dam and Hydrology Projects
  Associate Member of the Institute of Energy, UK
  National Scientific Council of Iran
  Energy Commission
Dariush Karimi
Assistant Professor

- **Ph.D.** Natural Resources Law, Universiti Putra Malaysia (UPM) Malaysia, 2001
- **M.Sc.** International Law, University of Tehran, Iran, 1991
- **B.Sc.** Political Law, University of Tehran, Iran, 1987

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- **Division**
  Department of Environmental Law

- **Teaching interests**
  Natural Resources Law
  Principles of Sustainable Development in Law
  National Organizations Responsible for Environmental Protection
  International Organizations Responsible for Environmental Protection
  Administrative law

- **Research interests**
  Environmental Law
  Energy Law

- **Membership in scientific associations**
  Iranian Society of Environmentalists (IRSEN)
  Scientific Fisheries Association
  Iranian Organic Agricultural Society
  Center for Peace and Environment
Abdulreza Karbassi
Assistant Professor

- Ph.D. Science (Physics, mathematics, geology), Mysore University, India, 1982.
- M.Sc. Environmental Geochemistry, Mangalore University, India, 1984.
- B.Sc. Marine Environmental Geochemistry, Mangalore University, India, 1989.

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- Division
  Department of Environmental Pollution

- Teaching interests
  Energy & environment
  Energy Auditing & Measurement
  Marine Pollution

- Research interests
  Oil and trace metal pollutions
  Environmental geochemistry
  Ozone depleting substances
  Limnology
  Energy & environment
  Solid waste management
  Thermal Pollution in marine environment

- Membership in scientific associations
  The Association of Geoscientists for International Development (AGID)
  New York Academy of Science
  International Solid Waste Association (ISWA)
Mansour Pournouri
Assistant Professor

- **Ph.D.**  International Law of the Sea, University of Dundee, UK, 1991
- **M.Sc.**  International Law, Hull University, UK, 1988
- **B.Sc.**  Judiciary Law, University of Tehran, 1976

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- **Division**
  Department of Environmental Law

- **Teaching interests**
  Public International Law
  Law of the Sea and International Law
  Civil Liabilities and Environmental Damages
  State Responsibility against Environmental Damage
  Law of Treaties

- **Research interests**
  Law of the Sea and International Law
  State Responsibility against Environmental Damage

- **Membership in scientific associations**
  Research Commission of the Judiciary
  Iranian National Center for Oceanography
  Association of Official Translators to the Judiciary
Hossein Ghadamian
Assistant professor

- **Ph.D.** Energy Engineering, Islamic Azad University, Science and Research Branch, Tehran, Iran, 2002.
- **M.Sc.** Energy Engineering, Islamic Azad University, Science and Research Branch, Tehran, Iran, 1998.
- **B.Sc.** Mechanical Engineering, Tabriz University, Tabriz, Iran, 1995.

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- **Division**
  Department of Energy Engineering – Energy Technologies

- **Teaching interests**
  - Energy systems analysis
  - Energy audit and management
  - Advanced gas turbine systems
  - Direct energy conversion systems
  - Advanced mathematical programming

- **Research interests**
  - Gas turbines off-design and diagnostics
  - Fuel cells systems modeling and optimizations
  - Energy systems analysis and integration by NLP modeling

- **Membership in Scientific Associations**
  - U.S. Electrochemistry Association
  - Tabriz University Association
  - Iranian Mechanical Engineering Association
  - Iranian Electronic Committee
Abdol Razzagh Kaabi-nejadian
Assistant Professor

- **Ph.D.** Solar Energy, Kogakun University, Japan, 1988
- **M.Sc.** Mechanical Engineering, Keio University, Japan, 1983
- **B.Sc.** Mechanical Engineering, Amirkabir University of Technology Iran, 1970

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- **Division**
  Department of Energy Systems Engineering - Energy Technologies

- **Teaching interests**
  Renewable Energy
  Heat Storage Technology
  Energy Efficiency
  Energy Laboratory
  Energy Applied in Industry
  Air Conditioning System

- **Research interests**
  Solar Energy
  Solar Energy Storage
  Air Conditioning System
  Renewable Energy

- **Membership in scientific associations**
  Head of Iranian Society of Heating, Refrigeration and Air Conditioning Engineers
  Solar Energy Committee Member of World Renewable Energy Congress
  International Scientific Committee Member of International Building Physics Conference
  Pioneers for 2012 - World Renewable Energy Congress, Denver, Colorado, USA
  Order of the Rising Sun Medal from Japanese Imperial Majesty the Emperor
Center for Environment and Energy Research and Studies (CEERS) founded in 2000. CEERS continued its academic heritage by undertaking and promotion innovative research topics and scientific studies in accordance with the contemporary social demand and scientific needs. Thus, the Center for Environmental and Energy Research and Studies, is established in order to pursue and enhance the research and study activities in professional framework.

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Air Pollution
Noise Pollution
Water and Waste water
Solid Waste
Ocean and Marine Environment
Remote Sensing (RS) and GIS
Biodiversity
Wetlands
Forest and Grassland
Ecotourism
Landscape and Green Space
Wildlife Management
Environmental Impact Assessment (EIA)
HSE, IMS, ISO
Land Use Planning
Environmental Law
Environmental Economics
Energy Efficiency
Renewable Energy Technology
Non-renewable Energy Technology
Energy Auditing
Energy Economics
Energy Policy