Department of Environmental Engineering (ENV)

About the Department

On a daily basis, our lives are touched and affected by many facets of what ENV Engineers contribute to society. From drinking water to the environment we live in, as well as water supply and ENV systems that provide clean water and air are critical to the welfare of humans and the nation's economy. Designing efficient ENV Systems, in one way or another all are touched and influenced by the work and dedication of a cadre of ENV Engineers. Educating the future generation of ENV Engineers is therefore critical to our lives. The Department of ENV Engineering at KUST provides undergraduate students with the tools to succeed in their technical careers in this increasingly complex world. We are a progressive department training our students to be tomorrow's leaders in defining and resolving societal ENV issues that confront our nation as well as the rest of the world.

Why ENV Engineering Should Be Chosen?

Throughout modern history, ENV engineers have always been at the forefront of the drive to improve our standard of living. They remain the central figures in planning, designing, and solving many ENV problems, that make modern life possible. Solving air pollution, changing the quality of air, soil pollution and treatment, water and wastewater systems, noise pollution, and natural resources managment, sanitation systems, soild waste systems and landfills, and all of these have impacts on the natural resources of the region and the nation, and its all are creations of ENV engineers. ENV engineers usually work as a part of an interdisciplinary team, and so benefit from a broad-based education.

ENV Engineering Vision and Mission

The **Vision** of ENV is to become a leading ENV department in Kurdistan Region and Iraq according to the international standared.

The **Mission** of ENV is to teach, conduct research and serve the community through professional development and technology transfer. The ENV pursues excellent teaching by providing quality education that will enable its graduates to demonstrate their technical proficiency, their ability to communicate effectively, their lifelong learning, and their ethical behavior in their career and professional practice.

ENV Engineering Objectives

The ENV objectives are to prepare graduates:

1. To learn, develop and apply their knowledge and skills to identify, prevent, and solve ENV problems.
2. To have successful careers that benefit the society as a result of their educational experiences in science, analysis and design and their social studies.
3. To communicate and work effectively in all work settings including those that are multidisciplinary.

ENV Engineering Outcomes

Our ENV program has been accredited by ABET. Students who graduate with a B.Sc. in ENV Engineering would be able to have:

a. An ability to apply knowledge of mathematics, science, and engineering.
b. An ability to design and conduct laboratory experiments and to analyze and interpret data.
c. An ability to design a system, component or process to meet desired needs within realistic constraints.
d. An ability to function on multi-disciplinary design teams.
e. An ability to identify, formulate and solve engineering problems.
f. An understanding of professional and ethical responsibility.
g. An ability to communicate effectively.
h. The broad education necessary to understand the impact of engineering.
i. An ability to engage in life-long learning.
j. A knowledge of contemporary issues.
k. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

ENV Engineers Career Opportunities

Students who graduate from ENV Department are highly sought-after by employers in industry and academia as they enjoy many potential opportunities to develop their career paths:

1. As Consultant ENV engineer in government and private agencies, in consulting firms, major corporations, and more as they may lead development of a project that will benefit many communities with a better standard of living.
2. As a Researcher at a university or at RnD centers, as they may discover a new technology that will save thousands of lives in years to come, and improve the environment.
3. As a Design and Safety engineer who leads all of these projects, (air pollution reduction, air quality improvement, soil pollution treatment, water and wastewater systems, noise pollution and natural resources managment, sanitation systems, soild waste systems and landfills), through the initial plans, final design, and implementation.

Contact Information:

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