

## About US

The Department of Civil Engineering at the Hashemite University (HU), Zarqa, Jordan, was established in 1999. It conducts basic and applied research relevant to the needs of the Kingdom. The Department is well equipped with modern laboratories to support its educational and research needs. In addition to its teaching mission, the Department has a major responsibility to disseminate knowledge by Offering continuing education short courses for the private and public sectors, as well as Providing technical and consulting services to the local industry.

## What is Civil Engineering (CE)

Civil Engineering is a multidisciplinary program dedicated to provide the graduate with technical knowledge and management skills for the purpose of accomplishing civil engineering projects more safely, economically and productively.

Civil engineering projects include the planning, designing, construction, and maintenance of structures and altering geography to suit human needs. Some of the numerous subdivisions are structures (e.g. buildings, bridges, and tunnels), transportation (e.g. railroad facilities and highways); hydraulics (e.g. river control, irrigation, swamp draining, water supply, and sewage disposal); and construction Engineering & Management.

## Why CE at HU ?

The Civil Engineering Department offers a five-year program (160 credit hours) which is sufficient to prepare the graduate for all phases of the civil engineering industry, whether in development or research.

The CE program is designed to integrate the technical aspects of engineering with financial, legal and administrative skills of business and management.

The competitive nature of industry in Jordan and the region requires engineers with technical and managerial skills. The undergraduate program in CE at HU is designed to fulfill these needs.

## CE Graduates

The CE student body comprises mainly of Jordan nationals and a small number of other nationals. Our graduates are working at various government and private sector organizations in Jordan and in the region.

## Accomplishments

Department of Civil Engineering at HU was ranked in the first tier among Jordan governmental and private universities in the University Achievement Exam (UAE) administered by the Ministry of Higher Education in the year 2006. Since 2011, the department has been locally accredited by the Higher Education Accreditation Commission (HEAC) at Jordan. The program has been accredited by Accreditation Board for Engineering and Technology (ABET) in 2018.

## Disciplines or streams

### Structural and Material Engineering

Structures and Material division offers professional education in analysis, design and construction, including evaluation and rehabilitation of structures. It's supported by three main labs: Building Materials, Strength of Materials and Experimental Stress Analysis labs. These labs are equipped with state of the art design, evaluation and Non Destructive Testing (NDT) equipment'.

### Highway Engineering

Teaching and research laboratories comprises up-to-date highway and airport materials testing and evaluation equipments. They include a gyratory compactor for SUPERPAVE asphalt mix design, rolling thin-film oven, asphalt content ignition oven, asphalt concrete resilient modulus, rutting, fatigue, and creep test setups, and pavement deflection measurement equipment.

### Construction Engineering & Management

The construction engineering and management program aims at becoming a national center for construction management education, research, and technology transfer. The Program concentrates on the use of information technology (IT) tools for potential implementation in the construction industry.

### Water Resources & Environmental Engineering

Water Resources and Environmental Engineering has become an extremely important and popular branch of Civil Engineering at the Hashemite University. Research in this steam is geared towards solving water resources and environmental problems of the Kingdom.

## Objectives of CE program

**PEO#1:** Become technically competent engineer for a successful and productive career in civil engineering

**PEO#2:** Be a researcher in a prominent industrial enterprise

**PEO#3:** Be a graduate student in a world - class university

**PEO#4:** Be an entrepreneur in civil engineering field

## Expected outcomes of CE program

**SO 1:** An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematic.

**SO 2:** An ability to apply engineering design to produce solutions that meet specified need with consideration of public health, safety, and welfare, as well global, cultural, social, environmental, and economic design.

**SO 3:** An ability to communicate effectively with a range of audience.

**SO 4:** An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgements, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.

**SO 5:** An ability to function effectively on a team whose member together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.

**SO 6:** An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgement to draw conclusions.

**SO 7:** An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

## Admission Requirements

Full admission to the CE program requires an applicant to pass the General Exam offered by the Ministry of Education, after high school with a percentile of 80% or more. Foreign applicants must have an equivalent to the Jordan General Exam.



## CONTACT US

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**Faculty Of Engineering**

**Civil Engineering Department**



## OUR VISION

**To Become the leading Civil Engineering Department providing Education, Research, Technology Transfer, and Community Service**