



كلية الهندسة  
College of Engineering  
QATAR UNIVERSITY جامعة قطر

# Master of Science in Civil Engineering



## About the Program

The Master of Science in Civil Engineering Program offers an in depth knowledge in the fields of civil engineering materials, geotechnical engineering, structural engineering, transportation engineering, and water resources. The mission of this program is to prepare students for careers in private and public sectors and for advanced research work leading to high scholarly achievements. The major emphasis of the program is to foster a deeper understanding of the civil engineering research process and to further develop professional skills.

The Program is to enhance students' abilities to contribute to the existing body of knowledge and to innovate and create new knowledge. Students are expected to gain strong theoretical and methodological foundations and to develop an ability to conduct research independently.

## About the Curriculum and Coursework:

In addition to the research work (12 credit hours), students are required to complete 24 credit hours of coursework. Twelve of these hours should be of courses selected from a list that includes specialized civil engineering courses. A typical duration of the program is four semesters (two years) and the maximum duration is eight semesters (four years). The Program is offered for both part- and full-time students

## Degree Requirements:

A minimum of 36 credit hours are required to complete the Master of Science degree in Civil Engineering including the following:

- A minimum of 12 credit hours of major core requirements.
- A minimum of 12 credit hours of major electives (civil engineering courses).
- A minimum of 12 credit hours in thesis requirements.

### **Research Interests/Emphasis:**

Structural analysis and design, Soil mechanics and foundation engineering, Traffic engineering and Pavement materials and design, Water resources quality and management.

### **Facilities:**

Fully equipped civil engineering laboratories (concrete and asphalt materials testing lab; soil mechanics lab; structural engineering lab; environmental engineering lab; and surveying lab). All laboratories encompass computers, printers, plotters, data-acquisition systems and up-to-date civil engineering software packages.

### **Potential Careers:**

The program prepares graduate students to pursue a wide range of higher level jobs as research engineers, project managers, and senior structural, geotechnical, transportation, or infrastructure engineers. The students are also prepared to continue their education towards a Doctoral Degree in Civil Engineering.

### **Financial Support:**

A number of funding opportunities are available for graduate students through external and internal sources such as the National Priority Research Program (NPRP) of Qatar Foundation and Qatar University internal grants. Qualified graduates can also apply for graduate assistantships that are provided by Qatar University.



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