



KFU

جامعة الملك فيصل
KING FAISAL UNIVERSITY
جامعة ووطن.. نماء.. واستدامة..

MASTER OF SCIENCE IN CIVIL ENGINEERING

King Faisal University

College of Engineering

Department of Civil and Environmental Engineering



1 PROGRAM OVERVIEW

The Master of Science in Civil Engineering program at King Faisal University is designed to address the increasing demand for highly qualified civil engineers capable of tackling contemporary challenges in structural, transportation, geotechnical, and construction engineering management. The program also emphasizes training graduates with problem solving skills tailored to local challenges in Al-Ahsa and broader national needs across Saudi Arabia.

With the rapid economic growth and large-scale infrastructure projects such as Qiddiya, NEOM, Diriyah, New Murabba, and Oxagon, the Kingdom of Saudi Arabia requires skilled civil engineers beyond the bachelor's level to meet the ambitious goals of Vision 2030. This program equips graduates with advanced technical expertise and research capabilities, ensuring they are prepared for leadership roles in both public and private sectors.

The program directly contributes to the mission of King Faisal University by fostering knowledge dissemination that prepares graduates to excel as professionals and leaders. The university plays a key role in the Eastern Province and the Kingdom by educating qualified individuals and conducting research that supports economic growth and social development.

The program stands out with its industry-driven curriculum, focusing on regional challenges such as sustainable infrastructure and arid-environment construction. Unlike other programs, it integrates cutting-edge research, advanced civil engineering software training, and strong industry collaborations to prepare graduates for mega projects in Saudi Arabia. Students gain hands-on experience through applied research and field visits, ensuring real world expertise. The program also enhances leadership and project management skills, equipping graduates for roles in consulting, industry, and academia while aligning with the Kingdom's Vision 2030.

The key focus areas of this program are to develop graduates' expertise in:

- Advanced construction techniques for concrete and steel structures.
- Design, maintenance, and rehabilitation of modern road and bridge systems.
- Sustainable infrastructure development and engineering project management.



1.1. Program Mission

The program aims to provide high-quality education, conduct impactful scientific research, and foster community partnerships while stimulating lifelong learning to address Civil Engineering challenges and national priorities through collaboration with industry and research centers.

1.2. Program Vision

The program strives to be a nationally recognized graduate program in Civil Engineering distinguished by academic excellence, impactful research, and effective community and industry engagement, contributing to sustainable infrastructure development and supporting national priorities in alignment with Saudi Vision 2030.

1.3. Program Objectives

1. Develop students' abilities in civil engineering and prepare them for the labor market in fields that support the Kingdom.
2. Equip students to conduct advanced scientific research through faculty-supervised theses and funded research projects.
3. Promote students' creativity and the advancement of new technologies in civil engineering.
4. Strengthen students' communication, leadership, and teamwork skills while promoting contributions to sustainable development.
5. Enhance independent research skills and cultivate a new generation of researchers.
6. Offer opportunities to address real-world engineering challenges through collaborative research with government, private sectors, and community partnerships.
7. Support continuing education and professional development for practicing engineers.



2 PROGRAM INFORMATION

College	College of Engineering
Academic department	Civil and Environmental Department
Name of the Program	Master of Science in Civil Engineering
Scientific Degree	Masters
Study Stream	Thesis Track Non-Thesis Track
Study Language	English
Study mode	Synchronous Physical Attendance Synchronous Remote Attendance
Student status	Full-time student Part-time student
Program Duration	Thesis Track: 2 years Non-Thesis Track: 2 years
Number of Credit Hours	Thesis Track: 30 Non-Thesis Track: 30