King Abdulaziz University - Faculty of Engineering
Admission Selection Exam Announcement
Civil Engineering

Program: **Bridging Program for Bachelor of Science in Civil Engineering**	
Date	Monday, July 13, 2026
Time	2:00 PM – 3:30 PM
Exam Duration	90 minutes
Location	Male Applicants: Building 29, KAU (https://maps.app.goo.gl/v4Yuve7nMnjThwem9), Female Applicants: Building G064, Room G4 & G17 (https://maps.app.goo.gl/iSCXVxhFW2oGeEMM6?g_st=aw)
Exam Format	In-person, closed-book, multiple-choice exam
Number of Questions	45 multiple-choice questions

Important Instructions

- Applicants must bring a pen and pencil, eraser, sharpener, **a non-programmable scientific calculator**, and a valid National ID.
- Mobile phones, smart watches, textbooks, notes, and electronic sharing devices are not allowed during the exam.
- The exam is closed-book and must be taken in person.
- Applicants must arrive at the exam location at least 30 minutes before the scheduled start time.

Exam References and Topics

The table below summarizes the recommended general references and the main topics covered in the exam. The exam is based on core technical knowledge covered in the Civil Engineering diploma programs.

Main Area	Topics Covered	Suggested References
Structural Drafting	Architectural and structural plan reading; line types, scales, and dimensioning; sections and details; RC and steel element drawings; and matching drawings to site execution.	Structural Drafting, Spiegel & Limbrunner, Prentice Hall; Construction Drawings and Details for Landscapes, Motloch, Wiley
Concrete Structures and Technology	Slab types (one-way, two-way, flat, hollow block, waffle); beams, columns, and footings; stirrups and reinforcement detailing; concrete mixing, placing, and curing; accelerating strength; and quality control of fresh and hardened concrete.	Design of Concrete Structures, Nilson, Darwin & Dolan, McGraw-Hill; Concrete Technology, Neville & Brooks, Pearson
Statics and Properties of Materials	Force analysis and equilibrium; reactions and free body diagrams; shear force and bending moment diagrams; mechanical and physical properties of construction materials; and standard material testing procedures.	Engineering Mechanics: Statics, Hibbeler, Pearson; Materials for Civil and Construction Engineers, Mamlouk & Zaniewski, Pearson
Surveying and Construction Management	Leveling, distance measurement, and setting out; use of surveying instruments; field plan matching; construction contracts and tendering; project scheduling and resource management; and quantities and specifications.	Elementary Surveying, La Putt; Construction Project Management, Mubarak, Pearson
Formwork, Soil Testing, and Infrastructure	Timber and steel formwork systems; reinforcement fixing; soil classification and testing under load; water supply and sanitary drainage networks; and introduction to pavement and road construction techniques.	Principles of Foundation Engineering, Das, Cengage; Water Supply and Pollution Control, Viessman et al., Pearson