Faculty of Engineering

Admission Selection Exam Announcement

Nuclear Engineering

Program: Bridging Program for Bachelor of Science in Nuclear 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 normally covered in Nuclear Engineering and Physics.

Main Area	Topics Covered	Suggested References
Mathematics Fundamentals	Algebra, trigonometry, calculus (differentiation and integration), differential equations, complex numbers, vectors and matrices, series and sequences, and probability & statistics.	Engineering Mathematics by K.A. Stroud; Advanced Engineering Mathematics by Erwin Kreyszig
Nuclear Physics Fundamentals	Atomic structure, radioactivity, decay modes, nuclear reactions, binding energy, radiation interactions, and basic neutron physics.	Introductory Nuclear Physics by Kenneth S. Krane
Introduction to Nuclear Engineering	Nuclear energy, reactor types, reactor components, fuel cycle, radiation protection principles, and nuclear applications.	Introduction to Nuclear Engineering by Lamarsh & Baratta
Introduction to Nuclear Science	History of nuclear science, isotopes, radiation sources, detection principles, applications in medicine, industry, and research.	Knoll, Radiation Detection and Measurement