

Faculty of Engineering
Admission Selection Exam Announcement
 Aerospace Engineering

Program: Bridging Program for Bachelor of Science in Aerospace 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?q_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 Aerospace/Aeronautical Diploma programs.

Main Area	Topics Covered	Suggested References
Mathematics	Derivatives, Integrals, Volume, ODEs, Series	Calculus: Early Transcendentals, Stewart, Clegg & Watson, 8/9th ed.
	Systems, Row Reduction, Determinants, Vector Spaces, Independence, Eigenvalues & Eigenvectors, Linner Product	Elementary Linear Algebra, Anton & Rorres, 11th ed.
Physics	Vectors/Scalars, Kinematics, Newton's laws, Circular Motion, Work/Energy, Momentum, Oscillations, SHM, Pendulum, Thermodynamics, Kinetic Theory, Electric Potential, Current & Resistance	Principles of Physics, Serway & Jewett, 5th ed.
	Forces, Dynamic Pressure, Steady Level Flight, Mach Number, Bernoulli, Lift/Drag, CL, CD, Stall, Load Factor, Jet Thrust	Introduction to Flight, Anderson, 8th ed.
Technical Problem Solving	Factor of safety, allowable stress, Moments, Lever principle, Beam Bending	Statics and Mechanics of Materials, Hibbeler, 5th ed.
	Flow Rate & Continuity, Pump Systems, Combined Pump Operation, Net Flow Rate	Engineering Fluid Mechanics, Elger, LeBret, Crowe & Roberson, 10/11th ed.