Module: Mathematics

Overview:

Test questions are based on basic mathematical concepts particularly on algebra, geometry and calculus. Formulas and graph paper will be provided during the exam. Non-graphical, non-programmable scientific calculators are required.

Faculty / Programme Group:

- Civil
- Electrical and Biomedical
- Chemical and Energy
- Mechanical
- Science
- Software Engineering
- Network and Security
- Graphic and Multimedia Software
- Artificial Intelligence

Topics Covered:

- Algebra and Polynomial
- Differentiation
- Integration
- Vectors
- Matrix algebra
- Functions, Curves and Polar coordinate
- Complex numbers

Module Test Contents:

Format:

- Subjective Questions (100 marks).
- Computational – All calculations must be shown clearly.

Duration:
3 hours

References:

1. John Bird (2006), Higher Engineering Mathematics, Elsevier.
2. Glynn James, (2010). Modern Engineering Mathematics, PrenticeHall.
3. Abd. Wahid etal (2015), Engineering. Mathematics I, UTM (Textbook).
4. Link: https://math.libretexts.org/Bookshelves