TUTM SUTM SUTM **Bridging Exemption Test** Module Outline

Module: Mathematics

Overview:

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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. TUTU & WTU & WTU &

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SUTM SUTA **Faculty / Programme Group:**

- Civil
- **Electrical and Biomedical**
- Chemical and Energy
- Mechanical
- Science
- Software Engineering
- SUTM SUTM **Network and Security**
- SUTM SUTM Graphic and Multimedia Software

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Artificial Intelligence

Topics Covered:

- Algebra and Polynomial

 Differentiation
- Integration
- Vectors
- Matrix algebra
- TUTM & UTM 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

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References:

WTU & MTU & MTU 1. John Bird (2006), Higher Engineering Mathematics, Elsevier.

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3. Abd. Wahid etal (2015), Engineering Mathematics I, UTM (Textbook).
4. Link: https://math.libretexts.org/Rockeholics

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4. Link: https://math.libretexts.org/Bookshelves

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