Unit 0

EE2302 Foundations of Information and Data Engineering

Course Plan

Course Organization

1. Sets
2. Functions
3. Relations
4. Numbers

   ✓ **Test 1**

5. Modulo
6. Cryptography
7. Vectors
8. Linearity

   ✓ **Test 2**

9. Codes
10. Groups

Instructor & Tutors

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❑ Tutors:

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Course Intended Learning Outcomes (CILO)

1. Demonstrate a working knowledge of sets, relations and functions.

2. Manipulate numbers and apply the techniques to cryptographic systems.

3. Explain basic concepts from linear algebra, and apply them to engineering problems.

4. Classify mathematical objects according to their algebraic structures, and apply algebraic methods to engineering problems.

Assessment

❑ Examination (45%)

  ○ For a student to pass the course, at least 30% of the maximum mark for the examination must be obtained.

❑ Coursework (55%)

  ○ Two Tests   (35%)

    • Makeup will be provided, provided that you submit a valid medical certificate within ONE week.

  ○ (Weekly) Assignment   (20%)

  ○ For a student to pass the course, at least 30% of the maximum mark for the coursework must be obtained.

Coursework Details

❑ Two Types of Assignment (for every unit)

    i. Assignment (File Upload).

        • Download the pdf file from Canvas.

        • Submit your handwritten answers via Canvas.

    ii. Quiz in Canvas.

    ○ Due: every next Wednesday at 11:00 pm

    ○ Late submission is **not** allowed.

❑ Tests

    i. Week 6 (Oct 8): Units 1–4

    ii. Week 11 (Nov 12): Units 1–8 (with emphasis on Units 5–8)