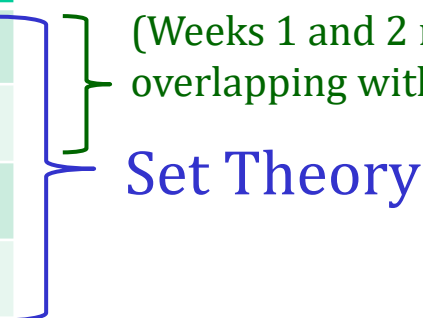




# Unit 0

## EE2302 Foundations of Information Engineering

### Course Plan

# Course Organization

Week	Topic	
1	Sets	 <p>(Weeks 1 and 2 may have some overlapping with EE1001)</p> <p>Set Theory</p>
2	Functions	
3	Relations	
4	Infinity	
5	Test 1	 <p>Number Theory</p>
6	Numbers	
7	Modulo	
8	Cryptography	
9	Groups	 <p>Modern Algebra</p>
10	Test 2	
11	Linearity	
12	Codes	
13	To be Confirmed...	

# Instructor & Tutors

## ❑ Instructor: Dr. Albert SUNG

- Office: G6354 (YEUNG)
- Email: [albert.sung@cityu.edu.hk](mailto:albert.sung@cityu.edu.hk)

## ❑ Tutors:

- a) Ms. Jiajun CHEN
  - Email: [jiajuchen8-c@my.cityu.edu.hk](mailto:jiajuchen8-c@my.cityu.edu.hk)
- b) Ms. Yongna GUO
  - Email: [yongnaguo2-c@my.cityu.edu.hk](mailto:yongnaguo2-c@my.cityu.edu.hk)

# 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. Classify mathematical objects according to their algebraic structures, and apply algebraic methods to solve 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 (17.5% each)
  - If you are absent in a test, there will **not** be any makeup test.
- 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 Tests

- i. Week 5 (Sep 28): Units 1–4
- ii. Week 10 (Nov 2): Units 1–8 (with emphasis on Units 5–8)
  - Face-to-face on campus (venue to be confirmed)

## ❑ Three Types of Assignment (for every unit)

- i. In-Class Tutorial Exercises
  - Due: end of your tutorial session
- ii. Assignment in Canvas
  - Download the pdf file from Canvas.
  - Submit your (handwritten) answers via Canvas.
  - Due: every next Monday at 11:00 pm
- iii. Quiz in Canvas
  - MC-type questions
  - Due: every next Monday at 11:00 pm

○ Late submission is **not** allowed.