

# COURSE DETAIL

## SIGNALS AND SYSTEMS

**Country**

Hong Kong

**Host Institution**

Hong Kong University of Science and Technology (HKUST)

**Program(s)**

Hong Kong University of Science and Technology

**UCEAP Course Level**

Lower Division

**UCEAP Subject Area(s)**

Electrical Engineering

**UCEAP Course Number**

12

**UCEAP Course Suffix****UCEAP Official Title**

SIGNALS AND SYSTEMS

**UCEAP Transcript Title**

SIGNALS AND SYSTEMS

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

## Course Description

This course examines signals and systems for modelling and analyzes a variety of engineering systems. It covers continuous- and discrete-time Fourier analysis, Laplace Transform, interactions between signals and linear time invariant (LTI) systems, sampling theorem, differential and difference equations as LTI systems, and application examples in communications, control, and multimedia.

## Language(s) of Instruction

English

## Host Institution Course Number

ELEC2100

## Host Institution Course Title

SIGNALS AND SYSTEMS

## Host Institution Course Details

<https://seng.hkust.edu.hk/sites/default/files/IMCE/UG/Course%20Syllabus/Fall%20...>

## Host Institution Campus

## Host Institution Faculty

## Host Institution Degree

## Host Institution Department

## Course Last Reviewed

2024-2025

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