

# COURSE DETAIL

## SYSTEMS AND SIGNALS

**Country**

Spain

**Host Institution**

Carlos III University of Madrid

**Program(s)**

Carlos III University of Madrid

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Bioengineering

**UCEAP Course Number**

110

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

SYSTEMS AND SIGNALS

**UCEAP Transcript Title**

SYSTEMS AND SIGNALS

**UCEAP Quarter Units**

5.00

**UCEAP Semester Units**

3.30

## Course Description

This course provides a study of continuous and discrete-time signals and LTI (linear and time-invariant) systems in the time and frequency domain. Topics covered include: signals; systems; Fourier series representation of continuous-time periodic signals and sequences; continuous-time Fourier transform; sampling; Laplace transform and z-transform. Students are expected to have completed coursework in calculus and linear algebra.

## Language(s) of Instruction

English

## Host Institution Course Number

15545

## Host Institution Course Title

SYSTEMS AND SIGNALS

## Host Institution Campus

Leganés

## Host Institution Faculty

Escuela Politécnica Superior

## Host Institution Degree

Grado en Ingeniería Biomédica

## Host Institution Department

Teoría de la Señal y Comunicaciones

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