



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## COURSE SYLLABUS

### Basis of Signal Processing

2425-1-I0302D050-I0302D066M

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#### Aims

Students will learn the signal processing basics required for their profession.

#### Contents

At the end of the course, students will have acquired the basic knowledge of signal processing.

#### Detailed program

The course provides students with an overview of the basic principles for analyzing and manipulating signals of various types. Essential concepts such as time and frequency domain representation, signal transforms, sampling and quantization, filtering, and practical applications are explored. This course provides both theoretical and practical foundations in signal processing, enabling students to acquire transferable skills in various fields such as communications, acoustics, imaging, and more.

#### Prerequisites

N/A

**Teaching form**

Frontal lessons.

**Textbook and teaching resource**

Slides and teaching materials provided by the instructor.

**Semester**

First semester

**Assessment method**

16 questions (multiple choice) and open questions to check preparation on exam program

**Office hours**

By appointment requested via e-mail.

**Sustainable Development Goals**

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