

# Signal Processing



Component  
École Nationale  
Supérieure  
d'Électrotechnique  
d'Électronique  
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et des  
Télécommunications



Semester  
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## In brief

➤ **Code:** N6EE02A

# Presentation

## Objectives

- Know the different classes of signals and the properties of their representations (autocorrelation function, energy or power spectral densities).
- Identify or design linear filtering operations.
- Understand the effects of ideal and real sampling,
- Know the techniques of restitution.

## Description

Chapter 1: Correlation and spectra (Fourier transform, signal classes, properties).

Chapter 2: Linear filtering (Wiener-Lee relations, interference formula).

Chapter 3: Sampling (ideal sampling, actual sampling, restitution).

Chapter 4: Nonlinear filtering (quadrator, quantification).