

Signal Processing



Component

École Nationale
Supérieure
d'Électrotechnique
d'Électronique
d'Informatique
d'Hydraulique
et des
Télécommunications



Semester

Printemps

In brief

- > **Amety's Code:** N6EE02A
- > **Open to exchange students:** Yes

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.
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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).