UCL Faculté des sciences

SC

PHYS2907 Traitement du signal et théorie de l'information

[22.5h+15h exercises] 4 credits

This course is taught in the 2nd semester

Teacher(s):	Jean-Pierre Antoine, René Prieels
Language:	french
Level:	2nd cycle course

Aims

- Introduce the student to analysis, transmission and processing of a signal.
- Introduction to the quantitative treatment of the notion of information.

Main themes

- Basic notions of signal processing: description and numerical treatment of a deterministic signal, filters, random signals.
- Mathematical tools: Fourier series and Fourier transform (continuous and discrete), Z transform, distributions, time-frequency transforms
- Introduction to information theory.

Other credits in programs

PHYS21/T	Première licence en sciences physiques (Physique de la terre, de l'espace et du climat)	(4 credits)
PHYS22/A	Deuxième licence en sciences physiques (Physique appliquée)	(4 credits)
PHYS22/G	Deuxième licence en sciences physiques	(4 credits)