UCL Faculté des sciences

SC

PHYS2903 Acquisition de données en temps réel et électronique digitale

[22.5h] 3 credits

This course is taught in the 2nd semester

Teacher(s): René Prieels
Language: french
Level: 2nd cycle course

Aims

The objective of this course is to give the student the necessary formation to understand how to perform with a computer the acquisition of data from external electronic modules linked to an experimental set-up.

Main themes

The student will need to master the whole instruction's spatio-temporal evolution within computers. He will learn the interface functions and properties, and several external transfer protocols. He will see the links and the coherence in an acquisition chain made of sensors, signals, coding, transfer and controls. The theoretical lectures will be complemented with the hardware and software developments of an acquisition card build in the framework of the course PHYS 2905 (20hrs). The lectures PHYS 2903 and the laboratory sessions PHYS 2905 are interconnected

Other credits in programs

PHYS21/G	Première licence en sciences physiques	(3 credits)	
PHYS22/A	Deuxième licence en sciences physiques (Physique appliquée)	(3 credits)	Mandatory
PHYS22/G	Deuxième licence en sciences physiques	(3 credits)	