

5.0 credits	30.0 h + 30.0 h	1q
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Teacher(s) :	Verleysen Michel ; Mouraux André ;
Language :	Français
Place of the course	Louvain-la-Neuve
Inline resources:	http://moodleucl.uclouvain.be/course/view.php?id=86
Aims :	<i>The contribution of this Teaching Unit to the development and command of the skills and learning outcomes of the programme(s) can be accessed at the end of this sheet, in the section entitled "Programmes/courses offering this Teaching Unit".</i>
Content :	-- specifics of measurements and instruments in clinic and biology -- electric and magnetic stimulation and recording -- use of other energy types (indications, methods and interest) -- safety notions (patient and user protection, asepsis and sterilization, device compatibility) -- application examples, especially those requiring a mathematical analysis (ECG, EEG, evoked potentials, etc..) -- descriptive methods of data analysis -- single- and multi-variable analysis -- linear and non-linear regression -- classification -- principal components analysis -- frequency analysis of signals, spectrum and sampling
Other infos :	/
Cycle and year of study :	> Master [120] in Computer Science and Engineering > Master [120] in Mathematical Engineering > Master [120] in Electrical Engineering > Master [120] in Chemical and Materials Engineering > Master [120] in Biomedical Engineering
Faculty or entity in charge:	GBIO