UCL Université catholique de Louvain

WMD1104

2015-2016

Physique expérimentale et introduction mathématique aux sciences expérimentales (2e partie)

5.0 credits	30.0 h + 21.0 h	2q

Teacher(s) :	Maltoni Fabio ;
Language :	Français
Place of the course	Bruxelles Woluwe
Main themes :	Physics is considered as an experimental science based on the precise observation of reality, on the collection of pertinent data and on assumptions to be validated. This part of the course deals with electricity, magnetism, optics and radiation physics.
Aims :	As in its first part (MD1102), the objective of this course is education and training. On one hand, the aim is to instil in the students a right method of approaching scientific matters and on the other hand, to provide them with all the elements necessary to a good understanding of the technical world they will be confronted with in a next future. According to the course of study, priority is given to applications dealing with life sciences. *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".*
Content :	Content - Electrostatics - Electrodynamics - Electromagnetism - Optics : Light and colours, reflection, refraction, diffraction, polarisation, vision - Radiation physics, including radioactivity and mechanical waves Methods - Lectures with audiovisual aid - Tutorials - Labs and problems in small groups - Softwares and iCampus forums
Other infos :	Prerequisite - Elements of calculus and mechanics Evaluation - During the term, continuous assessment - At the end of the term, written and oral examination + lab exam. Support - Written course and applications book - Illustrations et complements via iCampus - Tutorials via iCampus
Faculty or entity in charge:	MED

Programmes / formations proposant cette unité d'enseignement (UE)				
Intitulé du programme	Sigle	Credits	Prerequis	Acquis d'apprentissage
Bachelor in Biomedicine	SBIM1BA	5	-	
Bachelor in Pharmacy	FARM1BA	5	-	