UCL Université catholique de Louvain

WFARM2517

2014-2015

Biomatériaux et ingénierie tissulaire

3.0 credits	20.0 h + 10.0 h	2q

Teacher(s) :	des Rieux Anne (coordinator) ; Leloup Gaëtane ;
Language :	Français
Place of the course	Bruxelles Woluwe
Main themes :	The class is divided into 4 parts. Part 1 : introduction to the different categories of biomaterials and to generazl notions. Part 2 : interactions between materials and living organisms : actions of materials on living organisms and actions of organism on materials. Part 3 : Drug delivery systems Part 4 : clinical applications of biomaterials as well as biomaterials under development.
Aims :	Introduction to biomaterial sciences. At the end of the course, the students should be able to : 1. Describe the structure and properties of the different classes of biomaterials. 2. Decribe the principles of interactions between materials and living organisms. 3. Justify the choice of a biomaterial for a determined function when i twill be in contact with biolological systems or when i twill be implanted in humans. *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 :	Theoretical course (20h) and personal work using the concepts addressed during the class. The evaluation will be done by a wriiting exam for the theoretical part and a report completed by an oral presentation for the personal work.
Cycle and year of study :	> Master [120] in Pharmacy
Faculty or entity in charge:	FASB