UCL Université catholique de Louvain

WFARM1307

2015-2016

Physical pharmacy

2.0 credits	15.0 h	1q

Teacher(s) :	Leyssens Tom ;
Language :	Français
Place of the course	Bruxelles Woluwe
Prerequisites :	*The prerequisite(s) for this Teaching Unit (Unité d'enseignement – UE) for the programmes/courses that offer this Teaching Unit are specified at the end of this sheet.*
Main themes :	1. Pharmaceutical solutions : Dissolution Solubility Partition coefficient Osmotic presssure 2. The solid state : Solid state properties : The cristalline structure Polymorphisme The amorphous state Solid dispersions Properties of powders : Particle size Particle shape Specific surface area Powder density Powder flowability and particles cohesion Wettability 3. Rheology : Fluid viscosity Determination of the flow properties of Newtonian fluids Types of non-Newtonian behavior Determination of the flow properties of non-Newtonian fluids 4. Disperse systems : Interfacial phenomena Liquid interfaces Solid interfaces Colloidal systems 5. Polymers : General properties of polymers Water-soluble polymers Water-insoluble polymers and polymeric membranes
Aims :	To assimilate the physicochemical principles necessary to the formulation of dosage forms *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".*
Other infos :	Method 15 h lecture.
Faculty or entity in charge:	FARM

Programmes / formations proposant cette unité d'enseignement (UE)

Intitulé du programme	Sigle	Credits	Prerequis	Acquis d'apprentissage
Master [120] in Biomedical Engineering	GBIO2M	2	-	
Bachelor in Pharmacy	FARM1BA	2	WMD1102 **and** WMD1104 **and** WMD1105 **and** WMD1106	