UCL Université catholique de Louvain

WFARM2505

2010-2011

Physicochemical studies of pharmaceutical forms

3.0 credits	20.0 h + 10.0 h

Teacher(s) :	Vanbever Rita (coordinator) ; Préat Véronique ;
Language :	Français
Place of the course	Bruxelles Woluwe
Main themes :	Main themes : 1. Analysis of the solid state : Polymorphism and drug activity Cristallography and X rays in chemical analysis Methods of powder analysis : Particle size Powder density Pulmonary deposition of aerosols in vitro Surface analysis by X-ray photoelectron spectroscopy Differential scanning calorimetry 2. Analysis of solutions : Automatic determination of solubility and turbidimetry 3. Analysis of disperse systems : Liquid interfaces : Measurement of surface tension Langmuir balance Measurement of a CMC Measurement of the stability of an emulsion Inclusion complexes Solid interfaces : Wetting of solids and measurement of the contact angle Measurement of the Zeta potential Solid dispersions
Aims :	To thoroughly study methods for physicochemical analysis of pharmaceutical formulations *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 :	Method : Theoretical course completed with an experimental work : measurement of solid cristallinity, measurement of particle size, measurement of powder density, measurement of the pulmonary deposition of aerosols in vitro, measurement of the Zeta potential.
Other infos :	Prerequisite : FARM 1307 "Physical pharmacy" Evaluation : Oral or written examen (to be determined with the students), evaluation of the experimental work
Cycle and year of study :	> Master [120] in Pharmacy
Faculty or entity in charge:	FARM