


2.00 credits

15.0 h

Q2

Teacher(s)	Leysens Tom ;
Language :	French
Place of the course	Bruxelles Woluwe
Prerequisites	<i>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.</i>
Main themes	1. Pharmaceutical solutions : Dissolution Solubility Partition coefficient Osmotic pressure 2. The solid state : Solid state properties : The crystalline structure Polymorphism 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
Learning outcomes	At the end of this learning unit, the student is able to : 1 To assimilate the physicochemical principles necessary to the formulation of dosage forms
Faculty or entity in charge	FARM

Programmes containing this learning unit (UE)				
Program title	Acronym	Credits	Prerequisite	Learning outcomes
Master [120] in Biomedical Engineering	GBIO2M	2		
Bachelor in Pharmacy	FARM1BA	2	WMD1102 AND WMD1104 AND WMD1105 AND WMD1106	