

7.00 credits

33.0 h + 33.0 h

Q2



This learning unit is not open to incoming exchange students!

Language :	English
Place of the course	Bruxelles Woluwe
Main themes	This course on Physiologically Based Pharmacokinetics (PBPK) modeling provides a general introduction to PBPK and physiology-based biopharmaceutics modeling (PBBM), contrasting them with other types of modeling. It covers applications and case examples in pharmaceutical drug development, regulatory aspects, and other uses such as environmental chemical exposure. The course details generic PBPK modeling and simulation workflows, including problem definition, software tool selection, model structure, and evaluation. It also explores building and evaluating PBPK models for various populations and settings, interpreting and communicating model outputs, and applying the workflow with hands-on examples. Additionally, it includes case examples of Quantitative Systems Pharmacology (QSP) and semi-mechanistic models.
Learning outcomes	
Faculty or entity in charge	FARM

Programmes containing this learning unit (UE)				
Program title	Acronym	Credits	Prerequisite	Learning outcomes
Advanced master in pharmacometrics	PMTX2MC	7		