



2.00 credits

10.0 h + 20.0 h

Q2


**This learning unit is not open to incoming exchange students!**

Teacher(s)	Delzenne Nathalie (coordinator) ;Frédérick Raphaël ;Modrie Pauline ;Spinewine Anne ;Tubeuf Sandy ;Van Bambeke Françoise ;
Language :	French
Place of the course	Bruxelles Woluwe
Learning outcomes	
Evaluation methods	Evaluation of theoretical concepts by written exam Evaluation of an oral presentation given by a group of students on thema related to the content of the lectures
Teaching methods	Interactive lectures, including cases analysis
Content	<p>This course addresses the impact of drugs on sustainability, considering the processes of drug discovery and development, their production, and their use. The main chapters are:</p> <ul style="list-style-type: none"> <li>- Introduction to the concept and objectives of sustainable development and transition</li> <li>- "One health" concept (human, animal and environmental health)</li> <li>- Impact of chemistry (synthesis, purification of natural products, analysis)</li> <li>- Impact of the drug formulation</li> <li>- Impact of preclinical and clinical development (in vitro, animal studies, clinical studies)</li> <li>- Reasoned use of drugs (over or under consumption, prevention and treatment of infectious diseases)</li> <li>- Environmental cost of drug distribution and transportation</li> <li>- Management of waste, residues and packaging (including waste from hospitals and laboratories);</li> <li>- Impact of the delivery and use of drugs on the environment (in particular the physiological elimination of drugs or their metabolites by the body).</li> <li>- Prices and access to medicines (including for rare diseases); notions of health economics</li> </ul>
Faculty or entity in charge	FARM

<b>Programmes containing this learning unit (UE)</b>				
Program title	Acronym	Credits	Prerequisite	Learning outcomes
Master [120] in Biomedicine	<a href="#">SBIM2M</a>	3		
Master [60] in Biomedicine	<a href="#">SBIM2M1</a>	3		
Additional module in Pharmacy	<a href="#">APPFARM</a>	2		