


Teacher(s)	Leclercq Joëlle ;Quinet Muriel (coordinator) ;
Language :	French
Place of the course	Bruxelles Woluwe
Prerequisites	biology Co-requis : botanical introduction to pharmacognosy (part 1) <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	<ul style="list-style-type: none"> <li>- Notions of evolution and of morphology</li> <li>- Basic knowledge on the major classes of active metabolites of vegetable origin</li> <li>- Systematic study of the main families containing plants used in pharmacy or toxic ones</li> <li>- Techniques of improvement of healing plants and optimization of the yields</li> </ul>
Learning outcomes	<p><b>At the end of this learning unit, the student is able to :</b></p> <p>The student, at the end of this course, will have enough knowledge to recognize and identify plants, and particularly those which are important in the pharmaceutical field (medicinal plants, toxic plants) to</p> <ul style="list-style-type: none"> <li>- prevent and recognize poisonings and identify the causes,</li> </ul> <p>1</p> <ul style="list-style-type: none"> <li>- verify the identity of plant-based drugs he will deliver or expertise in the exercise of his profession,</li> <li>- follow with fruit the course of pharmacognosy and understand the notions of biosynthesis and chemotaxonomy.</li> <li>- He will also have acquired basic knowledge on the major classes of plant active metabolites.</li> </ul>
Evaluation methods	The evaluation is done through a written exam for the theoretical part and an evaluation of the practical work (herbarium + descriptive sheets + practical exam). The final mark is the weighted average of the marks of the theoretical examination and the practical work. The theoretical evaluation is worth 15/20 points of the final mark and the evaluation of the practical work is worth 5/20 points of the final mark. Concerning the theoretical examination, the 15 points are divided into 11 points for the "Quinet" part and 4 points for the "Leclercq" part .
Teaching methods	Theoretical courses and practical courses allowing to identify a local plant and realise herbarium samples
Content	<ul style="list-style-type: none"> <li>· reproduction of plants</li> <li>- Modes of reproduction, developmental cycles</li> <li>- morphology of reproductive organs (inflorescences, flowers, fruits, seeds)</li> <li>- The various branches of the Plant kingdom: description, use, cycles</li> <li>· Angiosperms (flowering plants)</li> <li>- systematics, main families, medicinal species, uses, active ingredients</li> <li>· techniques of yield improvement</li> <li>- active molecules from vegetable origin</li> <li>· practical classes: plant identification (microscopic examination of slices and whole plant botanical identification - systematics) and realization of a herbarium</li> </ul>
Inline resources	course notes on Moodle site Biologie végétale.be
Bibliography	La Flore de la Belgique (Jacquemart et al 2019) est utilisée comme base pour l'identification botanique. Les notes de cours sont disponibles sur Moodle.
Other infos	<p>Participation in the practical work, tutorials and exercise sessions is compulsory and indispensable to validate the teaching unit.</p> <p>Any unjustified absence will result in a penalty in the examination of the unit, which may go as far as the cancellation of the examination mark for the year of study concerned (0/20).</p> <p>In case of repeated absences, even if justified, the teacher may propose to the jury to oppose the registration for the examination relating to the EU in accordance with article 72 of the RGEE</p>

Faculty or entity in charge	FARM
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<b>Programmes containing this learning unit (UE)</b>				
Program title	Acronym	Credits	Prerequisite	Learning outcomes
Minor in Medication Sciences	<a href="#">MINFARM</a>	3		
Bachelor in Pharmacy	<a href="#">FARM1BA</a>	3	WMD1105 AND WMD1120P AND WMD1006	