UCL Université catholique de Louvain

WFARM1304

2015-2016

Pharmacognosy : a) phytochemistry - b) medicinal plants

6.0 credits	45.0 h + 30.0 h	2q

Teacher(s) :	Leclercq Joëlle ;
Language :	Français
Place of the course	Bruxelles Woluwe
Prerequisites :	WFARM1231 (partim théorie : 3 crédits) WFARM1243 WFARM1221 (partim biochimie : 6 crédits) WFARM1233 WFARM1232 WFARM1213 *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.*
Main themes :	- Plant drugs in modern therapy - Main usage forms of plants and plant extracts - Quality criteria for medicinal plants and plant extracts - Classes of active compounds from plants and their properties - Toxic plants and plants used in pharmacy as crude drugs, extracts or for extraction of active compounds
Aims :	At the end of this course, the students should: - Know the main raw materials from natural origin to give the best advice and the right information to patients - Know the main types of natural active molecules, their chemical, physical and pharmacological properties - Know the principles and the handling of analytical techniques used to determine the quality of plant drugs The course also explains: - The uses of medicines from plants, interactions and side effects *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".*
Evaluation methods :	Evaluation: Students will be evaluated for the theoretic part by a written exam comprising a practical problem and on their personal/ group work. An exam will also be organised for the microscopic and macroscopic parts, while a continuous evaluation is organised for the phytochemical part.
Content :	A/ Phytochemistry: - Quality control of plant and plant extracts, particular analytical methods and resolution of problems (case studies) - Biosynthesis, physico-chemical and pharmacological properties of the main natural active compounds B/ Medicinal plants: - Generalities on uses, advantages and drawbacks of phytotherapy, differences with homeopathy, risks of plant uses - Main forms of plants or extracts used in pharmacy - Examples of the most frequently used plants in phytotherapy (part used, chemical composition, quality criteria, side effects, contra-indications and doses) - Bibliographical research in small groups on one plant and critical analysis of a paper on this plant (case study) C/ Practical part: - Macroscopic identifications of medicinal plants in thees - Microscopic identification of examples of medicinal plants - Chemical analysis of a drug according to the European Pharmacopea
Faculty or entity in charge:	FARM

Programmes / formations proposant cette unité d'enseignement (UE)

Intitulé du programme	Sigle	Credits	Prerequis	Acquis d'apprentissage
Bachelor in Pharmacy	FARM1BA	6	WFARM1243 **and** WFARM1221 **and** WFARM1213 **and** WFARM1282	
Minor in Medication Sciences	WFARM100I	6	-	