wfarm1232
2019

General Pharmacology

In view of the health context linked to the spread of the coronavirus, the methods of organisation and evaluation of the learning units could be adapted in different situations; these possible new methods have been - or will be - communicated by the teachers to the students.

2 credits	15.0 h + 7.5 h	Q1

Teacher(s)	Hermans Emmanuel ;
Language :	French
Place of the course	Bruxelles Woluwe
Prerequisites	WMD1120P (Biologie générale et approche expérimentale de la biologie), or equivalent. The following teaching units should have been already validated by the student or must be followed by the student during the same academic year as the present course. WFARM1221 (Biochimie et biologie) or equivalent WFARM1212 (Eléments de physiologie générale) or equivalent. *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	Pharmacodynamy : theoretical aspects and experimental approaches. Comprehensive overview of pharmacological targets (receptors, ionic channels, enzymes). Qualitative and quantitative caracterisation of the interaction of ddrugs with these targets and description of the impact on physiology and opportunities for therapy. This course is documented wwith several example of common drugs used in human medicine. Basic concepts in pharmacotherapy : main principles governing the study of drug action and uses as well as the risks related to pharmacological treatments.
Aims	1 By the end of this course, the students will possess a general knowledge of fundamental concepts in pharmacodynamy and pharmacotherapy : 1.Students will have an overview of the principal molecular targets of drugs, and will understand the methods used to evaluate the activity of drugs. 2. They will understand the fundamental aspects of the interactions between drugs and their targets 3. They will have an overview of the general rules concerning the use of drugs in human medicine. The aim of the course is to provide sufficient background for further study of all classes of drugs used in pharmacology (courses in Special Pharmacology and Pharmacotherapy) - - - - *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	**Due to the COVID-19 crisis, the information in this section is particularly likely to change.** Oral examination after brief preparation
Teaching methods	**Due to the COVID-19 crisis, the information in this section is particularly likely to change.** The course includes lectures (total of 15 h) and practical activities (7,5h)
Content	General Pharmacology : mechanisms of action of drugs; quantitative study of drug-receptor interaction and related responses (potency and efficacy of drugs). Basic concepts of identification, classification and regulation of pharmacological targets. General Pharmacotherapy: therapeutic index; tolerance and pharmaco-dependance; secondary and unwanted effects of drugs; drug interactions; clinical evaluation of drugs: placebo effect, clinical studies. General description of pharmacological targets at the molecular level and their implication in diverse physiopathological processes. The course explores a large number of concepts specific to pharmacology. Beyond a theoretical description, several examples of drugs and their actions are explained.
Bibliography	Le support : l'essentiel des documents présentés aux cours sont accessibles sur Internet via la plateforme Moodle accessible aux membres de la communauté universitaire.
Faculty or entity in charge	FARM

Programmes containing this learning unit (UE)				
Program title	Acronym	Credits	Prerequisite	Aims
Bachelor in Pharmacy	FARM1BA	2	WMD1120P	🔍
Master [120] in Biomedical Engineering	GBIO2M	2		🔍