

4.00 credits

45.0 h

Q1

Teacher(s)	Kabamba-Mukadi Benoît ;Rodriguez-Villalobos Hector (coordinator) ;Schohy Anaïs ;Verroken Alexia ;
Language :	French
Place of the course	Bruxelles Woluwe
Prerequisites	<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	The course comprises two parts, the first one reviewing the basic aspects of microbiology and infectious diseases and the second one consisting of a systematic review of the human pathogens. The virology is considered separately from the bacteriology, the mycology and the parasitology. In the general bacteriology part, the host-microbe relationship at the level of the individuals and of the populations is described as well as the basic principles of antimicrobial treatments and resistance. By the description of several paradigmatic examples, the student is initiated to the various relationships which exist between the human body and the microbial world. Thereafter, the different peculiarities of infectious diseases according to anatomic sites are reviewed in details by describing the characteristics of the main micro-organisms implicated in pathologies of the respiratory tract, the urinary tract, the central nervous system, the digestive tract, the skin and mucosae, and the genital tract. Mycology and parasitology constitute two separate chapters as well as hospital epidemiology. In the general virology part, several aspects of basic virology necessary to the understanding of the pathologies, are approached as well as the main aspects of diagnosis and treatment of viral infections and viral vaccines. In the systematic part, individual virus are described with a priority to those which are frequently implicated or which cause a high morbidity or mortality in our population like hepatitis, SIDA or herpes viruses. A series of four sessions of practical exercises allow the students to practise basic techniques used in microbiology laboratories : microscopic examinations, bacterial cultures, identification, microbial susceptibility testings and serological tests
Learning outcomes	At the end of this learning unit, the student is able to : At the end of this course, the student should have acquired a general knowledge of the main micro-organisms (bacteria, viruses, parasites, fungi and helminths) implicated in human pathologies, including the main phenotypic and genotypic characteristics, the virulence factors, and the epidemiology. It should allow to understand the physiopathology, the diagnosis, the prevention and the basic principles of the treatment of the principal human infectious diseases. Technical aspects of the diagnosis and the treatment are not within the scope of this course. 1
Faculty or entity in charge	FARM