Curriculum - Academic Year 2018-19
Characteristics of the Course Units

Name	*Drug Sciences*
ECTS credits	*1*
Year / Semester	*I /1°*
Specific learning outcomes	*On successful completion of this module students should be able to:* *1.Understanding of the fundamentals drug sciences, from* the process that turns an active ingredient into a ready-to-use medicine that can be dosed as required. 2.To know and to understand the principles of Pharmacodynamics and Pharmacokinetics, to classify drugs on the basis of their mode of action and therapeutic application (knowledge and understanding), 3.To use the knowledge and understanding acquired in order to explain the use of drugs in the different pathologies, benefits and drawbacks of their use and the different route of administration (applying knowledge and understanding), 4.To analyze and compare the effects of drugs belonging to different classes and to properly resolve the complex issues related to the use of drugs in clinical practice (polypharmacy, drug-food interactions, use of bioequivalents, (making judgments) 5.To integrate the acquired knowledge and information on the proper management of drugs consulting several sources (health agencies, institutional entities, or drug suppliers and patients) (learning skills)
Contents	Definitions and Limitations, Drug Composition, Princeps and Generic Drugs, Classification of Drugs, Introduction to Pharmacokinetics and Pharmacodynamics
Teaching and learning methods	*Face to face course, 24 hours*
Teaching techniques	*Course, 24 hours*
Assessment methods	*Written* *Two mid-term written test and a final-term written test are foreseen.*
Assessment criteria	*In the first mid-term test students should demonstrate their ability* to classify drugs on the basis of their mode of action and therapeutic application (knowledge and understanding) *In the second mid-term test students should demonstrate their* to analyze and compare the effects of drugs belonging to different classes and to properly resolve the complex issues related to the use of drugs (apply knowledge and understanding) *Finally, in the final test students should demonstrate their ability* to analyze and compare the effects of drugs belonging to different classes and to properly resolve the complex issues related to the use of drugs in clinical practice (polypharmacy, drug-food interactions, use of bioequivalents, (making judgments)
Assessment metrics	*Attribution of a final grade*
Criteria of attribution of the final grade	*The grade goes from 0 (minimum) up to 20 (maximum). The minimum threshold to pass is 7. To pass the exam students should obtain at minimum an average of 7/20* *The final grade will be determined according to the following rules:* - *Mid-term written test: 30%* - *Final term written test: 70%*
Preparatory course units	*N.A.*
Didactic material	1. Le Hir, Alain, Jean-Claude Chaumeil, et al.. Pharmacie galénique: Bonnes

	pratiques de fabrication des médicaments 2. Pascal Wehrlé. Pharmacie galénique : formulation et technologie pharmaceutique 3. Isabelle Claverie et Hélène Hedde. Pharmacologie générale toxicologie : Mécanismes fondamentaux