

5.00 credits

20.0 h + 28.0 h

Q2

Teacher(s)	des Rieux Anne (coordinator) ;Vanbever Rita ;
Language :	French > English-friendly
Place of the course	Bruxelles Woluwe
Main themes	<p>The course covers the understanding and implementation of formulation principles and drug manufacture in industry and community pharmacy. The course is divided in 2 parts (WFARM2156 et 2157) and includes practical training.</p> <p>The course aims at integrating the physicochemical bases necessary for the formulation and the manufacture of pharmaceutical dosage forms. The formulation of various pharmaceutical dosage forms including the role of excipients, the manufacture and their control will be discussed.</p>
Learning outcomes	<p>At the end of this learning unit, the student is able to :</p> <p>At the end of the formation, students are able to</p> <ul style="list-style-type: none"> - choose a pharmaceutical form adapted to the drug, the patient and the pathology 1 - formulate it by understanding the associated physicochemical principles and the role of excipients - manufacture it (in community pharmacy or industry) - verify its quality and conformity
Evaluation methods	<p>The evaluation consists of two parts:</p> <ul style="list-style-type: none"> - Practical work (50% of the final grade). <p>Continuous evaluation of the lecture preparations in 2 stages (training (50%) then evaluation (50%)) with knowledge test at the beginning of each session, evaluation of the preparations and the associated report.</p> <ul style="list-style-type: none"> - Evaluation related to the course material (50% of the final grade): this evaluation consists of <ul style="list-style-type: none"> * a part A of continuous evaluation (25% of the subject evaluation) * a part B which consists of the written exam in session. (75% of the subject evaluation) <p>It will be possible, through the realization of various non-compulsory activities, to collect bonus points that will be added to the final grade of the 2nd semester.</p> <p>Attendance at the continuous assessment, as well as at the in-session examination, is mandatory. Any unjustified absence will result in a grade of 0.</p> <p>The points acquired during the mid-term exams and the bonus points will not change and will be taken into account as they are in the final grade of a possible second session.</p>
Teaching methods	<ul style="list-style-type: none"> - Interactive lectures, training videos, workshops <p>The course will be given using new teaching methods to complement the lecture (active teaching and flipped classes). Continuous assessment (1 partial) in addition to the exam</p> <p>Workshops and optional activities</p> <p>Some activities will be done outside the course and some during the course.</p> <ul style="list-style-type: none"> -Integration work <p>Practical work with continuous assessment on pharmaceutical forms prepared in the pharmacy.</p>
Content	<p>For the theoretical part, the course will cover dispersed forms (suspensions and emulsions), dermatological preparations, rectal preparations, ophthalmic preparations, transdermal drug delivery systems and preparations for pulmonary and nasal use. The definition and relevance of the pharmaceutical forms described in the European Pharmacopoeia, the principles of their formulation, the main excipients used, the methods of manufacture in industry and community pharmacy and the controls described in the pharmacopoeia will be addressed.</p> <p>For the practical work, students will prepare out-of-class exercises dealing with prescriptions. They will manufacture dosage forms made in community pharmacy: capsules, liquids for oral use, dermatological preparations, suppositories, eye-drops.</p>
Inline resources	The courses and practical training are available on Moodle.
Other infos	Participation to the practical training is mandatory.

Faculty or entity in charge	FARM
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Programmes containing this learning unit (UE)				
Program title	Acronym	Credits	Prerequisite	Learning outcomes
Master [120] in Pharmacy	FARM2M	5		