

Course: Pharmaceutical Technology I
Pharmaceutical Technology II
Pharm.D. Program, academic year 2018/2019

The purpose of these courses is to introduce students to the principles, practices and technologies applied in the preparation of pharmaceutical dosage forms and drug delivery systems. The detailed presentation of each dosage form will include physicochemical aspects, product design, formulation, compounding and/or manufacture, and the clinical application of the various dosage forms in patient care. Regulations and standards governing the manufacturing and compounding of pharmaceuticals will be also discussed.

Pharmaceutical Technology I deals with pharmaceutical compounding of drug preparations that is typical for a community pharmacy. However, Pharmaceutical Technology II is intended for hospital and industrial-related drug preparation and manufacturing, respectively.

COURSE REGULATIONS

1. The course *Pharmaceutical Technology I* (winter term) consists of:

lectures	15 hours
seminars	20 hours
lab classes	50 hours
Total	85 hours

2. The course *Pharmaceutical Technology II* (summer term) consists of:

lectures	15 hours (winter term!)
seminars	20 hours
lab classes	50 hours
Total	85 hours

3. **Of the lectures:** Attendance at the lectures will not be checked, however, students are advised to participate. All the lectures will be held in winter term.

4. **Of the seminars:** Attendance at seminars is obligatory and will be checked.
 - Students are allowed to be absent with or without excuse at one seminar per term.
 - The second absence per term must be formally excused within a one-week period after return to the University.
 - In case of absence (unexcused or excused), students will have to write a report on the related topic and/or pass an extra test covering the topic of the missed seminar (to be decided by the teacher). It is obligatory to be familiar with the handout of the missed seminar. The missed seminar may be additionally arranged only when extra paid.
 - Absence at more than 2 seminars per term will result in failing for Pharmaceutical Technology (no credit).

5. **Of the lab classes:** Attendance at lab classes is obligatory and will be checked.
 - Students are obliged to wear clean, ironed, and buttoned white lab coats when participating lab classes. Notebooks and calculators are required.
 - Students are expected to be well prepared to the lab classes. Before starting the experimental part, students will have to take a 10-min quiz. 60% of points is needed to

pass. The quiz may be repeated twice (15 min before the next lab class). Three failed quizzes from 3 independent topics will result in failing for Pharmaceutical Technology (no credit).

- Students are allowed to be absent with or without excuse at one lab class per term.
- The second absence per term must be formally excused within a one-week period after return to the University.
- In case of absence (unexcused or excused), students will have to write a report on the related topic and/or pass an extra test covering the topic of the missed lab class (to be decided by the teacher). The missed lab class may be additionally arranged only when extra paid.
- Absence at more than 2 lab classes per term will result in failing for Pharmaceutical Technology (no credit).

6. General rules:

- **Of the seminars and lab classes:** Leaving classes early without permission or three late arrivals (less than 15 minutes) will be considered as one unexcused absence. One late arrival (more than 15 minutes) will be considered as one unexcused absence, but student may be allowed to participate in the class.
- Drinking of beverages, eating of food, smoking, using of mobile phones are forbidden at any time in lecture halls, classrooms or laboratories. Mobile phones should be turned off and not used as calculators.
- Coats, umbrellas, large bags and other large objects must be left at cloakroom located at the ground floor in the *Collegium Chemicum* (before lab classes).

7. **Final tests:** At the end of each term students are obliged to take a final test. The final test I (winter term) and the final test II (summer term) will cover **all the topics presented in seminars and lab classes** during winter or summer term, respectively. 60% of points is needed to pass.

- Students who fail the final test can repeat it twice.
- Students who fail the final test I will not be allowed to participate in the Pharmaceutical Technology II course.


8. **The exam** will cover **all the topics presented in lectures** given during the winter term. 60% of points is needed to pass. Students who fail the exam can repeat the exam twice. However, when the result is negative for the third time, a student is relegated to the Dean of the Faculty for a decision as regards to an admittance to oral or written examination by a commission.

9. **The final grade** of the Pharmaceutical Technology I and II will be based on the results of the final tests and exam. The percentage distribution will be allocated as follows: final test I - **30%**, final test II - **30%**, and exam - **40%**.

10. **Erasmus students** are obliged to follow the same regulations as those for regular students. If one participates in Pharmaceutical Technology I **or** II course, an exam covering a half of all lecture topics should be taken.


Barbara Jadach, Ph.D.
Course coordinator


Prof. Janina Lulek, Ph.D.
Head of Department


Prof. Franciszek Głowka, Ph.D.
vice Associate Dean for Pharmacy
Center for Medical Education in English