

CONDITIONS FOR COURSE COMPLETION

Pharmaceutical Chemistry (2)

Summer Semester 2025 / 2026

Bratislava, February 3, 2026

Form of Education: Lectures – in the range of 2 h / week

Laboratory Practicals – in a range of 5 h / week (*According to the decision of Comenius University Bratislava / Faculty of Pharmacy, Comenius University Bratislava* – presence form of education (Department of Pharmaceutical Chemistry, 3rd Floor, Room No. 304)

Completion of Education: Preliminary evaluations, written final evaluation (exam), granting of credits

Teachers: Assoc. Prof. PharmDr. Ivan Malík, PhD. (Lectures, Laboratory Practicals)

PharmDr. Lenka Stopková, PhD. (Lectures, Laboratory Practicals)

Mgr. Róbert Šandrik, PhD. (Laboratory Practicals)

PharmDr. Dominika Nádaská (Laboratory Practicals)

CONDITIONS FOR COURSE COMPLETION

Recommendation

The *Organic Chemistry (1)*, *Organic Chemistry (2)*, *Biochemistry* and *Pharmaceutical Chemistry (1)* courses have been very strongly recommended to be successfully passed for the *Pharmaceutical Chemistry (2)* course completion.

The Conditions for Successful Completion of the Pharmaceutical Chemistry (2) Course

a) Attendance at Lectures and Laboratory Practicals, Study of Lectures

Student is obliged to complete **all** Lectures and **all** Laboratory Practicals as essential parts of the *Pharmaceutical Chemistry (2)* course.

All students **are obliged to sign in** to the *Pharmaceutical Chemistry (2)* team in the **MS Teams** (**MS Teams**) interactive environment.

All students **are obliged to sign in** to the *Pharmaceutical Chemistry (2)* course in the **moodle** interactive environment.

Texts of the Lectures from the *Pharmaceutical Chemistry (2)* course will be continuously sent to students, these texts will be stored in the interactive **Microsoft Teams** application. The texts will cover *Syllabus of Lectures* published at a website of the Department of Pharmaceutical

Chemistry, Faculty of Pharmacy, Comenius University Bratislava as well as in the **MS Teams** application.

b) Successful Course Completion Based On Successful Passing of All Semestral Preliminary Evaluations

Writing of two **preliminary evaluations** – both **preliminary evaluation I** and **preliminary evaluation II** (preliminary tests) from the *Pharmaceutical Chemistry (2)* course will be performed in a presence form – **the tests will be written at Laboratory Practicals.**

These evaluations of students' knowledge, **preliminary evaluations** (preliminary tests), will be carried out on:

Laboratory Practical No. 3 (preliminary evaluation I) and

Laboratory Practical No. 5 (preliminary evaluation II).

The content of both **preliminary evaluations** (preliminary tests) will be covered by **all** lectured themes and **all** themes accessible in **MS Teams** (**all** the topics / themes from the Lectures as well as Laboratory Practicals). The details related to the evaluations (focusing on particular pharmacodynamic classes as well as particular biologically active compounds) will be communicated to the students within the Lectures from *Pharmaceutical Chemistry (2)*.

For passing all these scheduled semestral preliminary evaluations (preliminary evaluation I as well as preliminary evaluation II; two preliminary tests), **60.00% or higher rate of each test must be achieved.**

c) Successful Course Completion Based On Successful Passing of a Written Final Evaluation (Exam)

Important Notification. All students **are obliged to sign in** to the *Pharmaceutical Chemistry (2)* team in the **MS Teams** interactive environment. All students **are obliged to sign in** to the *Pharmaceutical Chemistry (2)* course in the **moodle** interactive environment accessible at a web site: https://moodle.uniba.sk/?lang=en_us

The examination in the *Pharmaceutical Chemistry (2)* course will be in a **written form**, i.e., the students will complete the test **personally** in the **moodle** interactive environment.

All terms of a final evaluation (exam) from the *Pharmaceutical Chemistry (2)* course will be registered in AIS-2 and in the moodle environment (the indication of these terms in the **moodle** application: in the case of a „virtual form“ of the **final evaluation**).

Students are obliged to sign in to the *Pharmaceutical Chemistry (2)* final evaluation (to a specific term) via AIS-2.

Only a student who is properly registered *via* the **AIS-2** electronic system and who is signed properly in the *Pharmaceutical Chemistry (2)* course in the **moodle** system, will be allowed to take the exam.

The written **final evaluation** (exam) will consist of a set of **25 questions**, in which all lectured pharmacodynamic classes (the content of all “documents” from Lectures as well as Laboratory Practicals) and chosen biologically active compounds (drugs) will be represented.

The questions will cover i) definitions and classifications (division) of particular pharmacodynamic classes, ii) chemical structures of particular compounds, iii) mechanism of biological (pharmacological) action mentioned briefly, iv) structure–activity relationships and/or (if possible) structure–pharmacokinetics relationships and/or (if possible) structure–toxicity relationships in detail, and vi) biotransformation pathways *in vitro* or *in vivo* of particular biologically active compounds (drugs).

Important Notification. The written **final evaluation** (exam) will be performed **personally** *via* the **moodle** application – four (4) options will be listed in the test section for answering each question. The correct solution to answer each question will be to indicate properly: i) one (1) correct answer or ii) even multiple correct answers. However, no question will be conceived in such a way that no correct answer will be given.

Each questions will be evaluated by 2.00 (two) points.

Time to complete the final evaluation (exam) from the *Pharmaceutical Chemistry* (2) course will be **45 min** – the written **final evaluation** will be performed **personally** at the Faculty of Pharmacy, Comenius University *via* the **moodle** interactive environment.

Important Notification. Department of Pharmaceutical Chemistry reserves the rights to modify properly the time for completing a written **final evaluation** (exam) according to experiences resulting from both **preliminary evaluations** (preliminary tests). The time to complete a written **final evaluation** (exam) will be the same for all students,

Other important instructions regarding of the written final evaluation (exam): **10 students at maximum** can be registered – in the case of the exam performing personally *via* the moodle interactive environment.

The registration procedure for the written final evaluation (exam) can be made after the announcement from the Study Department, however, **2 days before the exam date at the latest.** In addition, the students are allowed to be unregistered, however, **2 days before the exam date at the latest.**

Final evaluation from the *Pharmaceutical Chemistry* (2) course will be as follows: 50.00–47.00 points (evaluation level „A“), 46.99–44.00 points („B“), 43.99–39.00 points („C“), 38.99–35.00 points („D“), 34.99–30.00 points („E“), less than 30.00 points („FX“; not passed). Thus, minimal requirements for the *Pharmaceutical Chemistry* (2) course to be successfully passed are as follows: 60.00 % (60.00 % and more of the maximum point score).

Eventual Absences

Absences from Lectures

In the case of absences from Lectures, a medical certificate proving serious health condition (illness) or a document proving serious problems, which prevented from the participation in Lectures:

i) **must be** submitted to Assoc. Prof. PharmDr. Ivan Malík, PhD. (address: Department of Pharmaceutical Chemistry, Faculty of Pharmacy, Comenius University Bratislava, Odbojárov 10, SK-832 32, Bratislava, Slovak Republic), **or**

ii) **must be** submitted electronically to Assoc. Prof. PharmDr. Ivan Malík, PhD. (e-mail address: malik2@uniba.sk) as a scan of the original document

within 3 (three) working days after the term of a Lecture.

Only a medical doctor certificate is accepted.

In the case that a student does not provide any certified excuse, the absence **will not be excused**.

Absences from Laboratory Practicals

In the case of absences from Laboratory Practicals, a medical certificate of serious health condition (illness) or a document proving serious problems, which prevented from the participation in Laboratory Practicals:

i) **must be** submitted to Mgr. Róbert Šandrik, PhD. (address: Department of Pharmaceutical Chemistry, Faculty of Pharmacy, Comenius University Bratislava, Odbojárov 10, SK-832 32, Bratislava, Slovak Republic), **or**

ii) **must be** submitted electronically to Mgr. Róbert Šandrik, PhD. (e-mail address: robert.sandrik@uniba.sk) as a scan of the original document

within 3 (three) working days after the term of a Laboratory Practical.

Only a medical doctor certificate is accepted.

In the case that a student does not provide any certified excuse, the absence **will not be excused**.

Absences from Final Evaluations (Exams)

In the case of absences from registered terms of final evaluations (exams), a medical certificate proving serious health condition (illness) or a document stating serious problems, which prevented from the participation in the exam:

i) **must be** submitted to Assoc. Prof. PharmDr. Ivan Malík, PhD. (address: Department of Pharmaceutical Chemistry, Faculty of Pharmacy, Comenius University Bratislava, Odbojárov 10, SK-832 32, Bratislava, Slovak Republic), **or**

ii) **must be** submitted electronically to Assoc. Prof. PharmDr. Ivan Malík, PhD. (e-mail address: malik2@uniba.sk) as a scan of the original document

within 3 (three) working days after the term of a final exam.

Only a medical doctor certificate is accepted.

In the case that a student does not provide properly certified excuse, the result of the exam will be evaluated as follows: **FX** (*not passed*).

Assoc. Prof. PharmDr. Ivan Malík, PhD.

Assoc. Prof. Mgr. Fils Andriamainty, PhD.
Head of the Department