

COURSE DESCRIPTION

Academic year: 2026/2027	
University: Comenius University Bratislava	
Faculty: Faculty of Pharmacy	
Course ID: FaF.KChTL/04-Mgr-A/26	Course title: Organic Chemistry (1)
Educational activities: Type of activities: lecture / laboratory practicals / seminar Number of hours: per week: 2 / 3 / 1 per level/semester: 28 / 42 / 14 Form of the course: on-site learning	
Number of credits: 8	
Recommended semester: 2.	
Educational level: I.II.	
Prerequisites:	
Recommended prerequisites: Recommendation: General and Inorganic Chemistry	
Course requirements: Seminars: The student is required during the semester to complete all the seminars. During the course each student must write 4 interim tests (0-20 points) and 1 final test (0-40 points). To fulfill the conditions for the examination the student is to reach more than 60% of the total point value of all tests. The points reached within the seminars are multiplied by the factor of 0,3 and their value is 30% of the exam value in case of a successful completion of the exam. The coefficient obtained from the seminars applies solely to the academic year in which it was obtained. Laboratory exercises: The student is required during the semester to complete all laboratory exercises and according to the study programme is to write one test from the laboratory techniques (0-40 points) and independently perform four synthetic tasks (0-10 points). To fulfill the conditions needed for the examination the student is to reach from the laboratory exercises more than 60% of the total point value. Gained points are then multiplied by the factor of 0,1 and their value is 10% of the exam value in case of a successful completion of the exam. Examination: The course examinations are held predominantly in written form in the examination period. Participation at the exam is subject to the full completion of the seminars and acquisition of more than 60% of the total point score from the seminars. It is recommended to pass the exam from Organic Chemistry 1. Successful completion of the exam test is conditional on obtaining more than 60% from each section of the written test. At the successful completion, the test's average point value obtained from both parts is multiplied by the factor of 0,6. The total mark of the exam is created by the value obtained from seminars (40%) and the examination test (60%). Grading scale of the overall result of the exam (after taking into account the outcome of the interim control): A: 92,00 % – 100,00 %; B: 84,00 % – 91,99 %; C: 76,00 % – 83,99 %; D: 68,00 % – 75,99 %; E: 60,00 % – 67,99 %; Fx: 0,00 - 59,99 %. Scale of assessment (preliminary/final): 30+10/60	
Learning outcomes: The course provides a comprehensive preparation of theoretical organic chemistry, as well as practical training in the field of organic synthesis focusing on the field of selected pharmaceutically	

important compounds. The gained skills are necessary for the completion of further chemical and also pharmaceutically oriented courses, such as Pharmaceutical Chemistry. The course is comprehensively designed, focusing on Master Degree accredited study programme of Pharmacy.

Class syllabus:

In theoretical teaching the main attention is paid to systematic organic chemistry. According to each group of compounds the course deals with their physical-chemical characteristics, properties, reactivity, types and mechanisms of reactions with emphasis on the importance in chemistry of pharmaceuticals and other following chemical courses of pharmaceutical study. As for natural substances only basic knowledge is provided. Mastering the knowledge of theoretical teaching and their application is the subject of seminars. The course of Organic Chemistry 2 is one of the fundamental courses in a comprehensive chemical preparation of students of pharmacy. When teaching the subject emphasis is placed on the use of acquired knowledge of organic chemistry in pharmacy and medicine. The course is comprehensively designed, focusing on Master Degree accredited study programme of Pharmacy.

Teaching includes self-study of educational videos, assigned problems and independent student work.

Recommended literature:

1. Devínsky F. et al. Organic Chemistry for Pharmacy Students. Comenius University Press, Bratislava, 2010
2. McMurry, J.W., Begley, T.P.: The Organic Chemistry of biological Pathways, W. H. Freeman, 2nd ed., 2015
3. Miklášová, N., Habala, L., Lintnerová, L.: LABORATORY TECHNIQUES AND SYNTHESIS IN ORGANIC CHEMISTRY, Comenius University Press, Bratislava, 2022

Languages necessary to complete the course:

English language

Notes:

The course is held only in summer semester.

Past grade distribution

Total number of evaluated students: 0

A	ABS	B	C	D	E	FX
0,0	0,0	0,0	0,0	0,0	0,0	0,0

Lecturers: doc. PharmDr. Jindra Valentová, PhD., Mgr. Lucia Lintnerová, PhD., Mgr. Peter Herich, PhD., RNDr. Roman Mikláš, PhD., Mgr. Klára Stankovianska, PhD.

Last change: 11.06.2026

Approved by: prof. PharmDr. Ján Klimas, PhD., MPH