

2026/2027. ACADEMIC YEAR							
PROGRAM OF STUDY (FOR STUDENTS OF 2ND YEAR)							
Full (Hun) name of the subject: Szerves kémia alapok II.							
Program: Undivided program (pharmaceutical)							
Schedule: full-time							
Short name of the subject:							
English name of the subject: Basic of Organic Chemistry II.							
German name of the subject:							
Type of registration: obligatory/obligatory elective/elective/criteria requirement							
Neptun code of the subject: GYSSZK372E2A							
Responsible Department: Semmelweis University, Institute of Organic Chemistry							
Responsible tutor Dr. Ruth Deme Contact information: - phone: +36-1-476-3600/53005 - email: deme.ruth@semmelweis.hu				Title, academic degree: lecturer assistant, PhD			
Class per week: 1 lecture(s) 0 practice(s)				Credit point(s): 1 credits			
Professional content, intent of acquirement and it's function in order to implement the goals of the program: The course primarily promotes the understanding of basic organic chemistry by covering practical organic chemistry problems in addition to the seminar hours. Since knowledge of organic chemical mechanisms is the basic building block for understanding the formation of a new compound, more time is needed to enable students to apply basic organic chemical mechanisms at a skill level in their studies. It is important to emphasise that the deeper and more fundamental knowledge acquired in this course will help students to prepare for the examinations. The writing of two small assessment papers during the semester can also be a good indicator of the level of knowledge of the students, which will mainly help their motivation.							
Short description of the subject: Discuss practical organic chemistry problems in interactive lessons, with a focus on understanding basic organic chemical mechanisms and the spatial structure of organic compounds.							
Course data							
Recommend ed term	Contact hours (lecture)	Contact hours (practice)	Contact hours (seminar)	Individu al lectures	Total number of contact hours/sem ester	Normal course offer	Consult ations
3. semester	14	-	-	-	14	<u>Autumn semester</u> Spring semester Both semesters (Please underline)	-

Program of semester**
Topics of theoretical classes (pro week): Week 1: Heterocycles nomenclature: practice IUPAC naming through several examples. Week 2: Properties and reaction of 3- and 4-membered heterocyclic compounds. Interpretation of reaction mechanisms. Week 3: Properties and reactions of π-electron-rich heteroaromatic compounds. Interpretation of reaction mechanisms. Week 4: Properties and reactions of π-electron-deficient heteroaromatic compounds. Ring syntheses. Interpretation of reaction mechanisms. Week 5: Properties and reactions of π-electron-deficient heteroaromatic compounds. Interpretation of reaction mechanisms. Week 6: Properties and reactions of π-electron-deficient heteroaromatic compounds. Ring syntheses. Interpretation of reaction mechanisms. Week 7: Key reactions in amino acid and peptide synthesis.
Course requirements
Prerequisites: Organic Chemistry I.
Conditions of attending the classes, amount of acceptable absents, way of presentation of leave, opportunity for makeup: Writing two short assessment essays.
The grading method; the conditions for getting the signature; the number, topic(s) and date(s) of the mid-term assessments (reports, term tests), and the process in which they contribute to the final grade; and the possibility of their retake or their upgrading retake (as provided in §§ 25-28 of the STUDY AND EXAMINATION REGULATIONS):
Number, topics and dates of tests during the semester, opportunities of makeup and improvement of results: Writing two short assessment papers from the sections of material that precede the essay. The dates of the papers will be communicated to the students at the beginning of the semester.
Requirements of signature(as provided for in STUDY AND EXAMINATION REGULATIONS § 29): Writing two short papers and active participation in class.
Number and type of projects students have to perform independently during the semester and their deadlines: Short homework assignments at the end of each lesson for group work.
Type of the semester-end examination: signature*/practical grade*/<u>semi-final</u>*/final* (<i>Please underline</i>) Examination requirements: as published by the institute on the MOODLE course site by the start of the academic term
Form of the semester-end examination: written*/<u>oral</u>*/combined examination/practical examination/the assessment of completing project work (according to STUDY AND EXAMINATION REGULATIONS 30.§)* (<i>Please underline</i>)
The possibility and conditions for offering grades: -

A list of the basic notes, textbooks, resources and literature that can be used to acquire the knowledge necessary to master the curriculum and to complete the assessments, with exact description about which of them is required to acquire which part of the syllabus (e.g. description based on topics)), as well as the main technical and other aids and study aids that can be used:

Materials of the lectures and organic chemistry problems can be downloaded from Moodle

J. McMurry: Organic Chemistry, 10th Edition (OpenStax)

In the case of a subject lasting more than one semester, the position of the teaching/research department on the possibility of parallel enrolment and the conditions for admission**:**

yes*/no*/on an individual assessment basis* (* Please underline)

The course description was prepared by:

Dr. Ruth Deme (lecturer assistant, PhD)

**** A tantárgy tematikáját oly módon kell meghatározni, hogy az lehetővé tegye más intézményben a kreditismerési döntéshozatalt, tartalmazza a megszerzendő ismeretek, elsajátítandó alkalmazási (rész)kézségek, (rész)kompetenciák és attitűdök leírását, reflektálva a szak képzési és kimeneti követelményeire.**