Level: bachelor

Course title: Nomenclature of Organic Compounds IHO-306

Status: elective

ECTS: 5

Requirements: none

Learning objectives

Introduce students to the complex rules of nomenclature in organic chemistry and related sciences, introduction to the basic principles of nomenclature of organic compounds. Mastering the methodology of formation names of organic compounds as well as the interpretation and writing structures on the basis of the IUPAC names. Providing broad knowledge of the nomenclature of organic compounds and skills that enable students to find employment or continue education in the field of chemistry and multidisciplinary areas involving chemistry.

Learning outcomes

Master the general principles of the nomenclature and terminology of all classes of organic compounds, as well as the formation and interpretation names of organic compounds. Demonstrate knowledge and understanding of the basic facts, concepts and principles of nomenclature of organic compounds. Identify and analyze the tasks and problems, plan strategies for their practical solution. Demonstrate the ability in written and oral communication, and information retrieval from primary and secondary sources, including online search.

Syllabus

Theoreticalinstruction

Introduction to IUPAC nomenclature of organic compounds. Conventions: spelling, punctuation, numerical prefixes, brackets, use of italics. General principles of nomenclature of organic compounds. Characteristic functional groups. Instructions to formation names and application of rules to particular classes of compounds. Stereochemical assigning: *cis/trans, E/Z, R/S.* Interpretation of names.

Practicalinstruction

Exercises in formation and interpretation names of classes of compounds. Practising nomenclature operations by types of nomenclature and classes of compounds. Exercising and testing knowledge on computer IUPAC-tests.

Weekly teaching load				**Other**:
Lectures: 2	**Exercises**: 2	**Other forms of teaching**:	**Student research**:	