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| Level: bachelor | | | |
| Course title: Organic chemistry II | | | OZZS-601-II |
| Status: obligatory | | | |
| ECTS: 5 | | | |
| Requirements: Attended Organic chemistry I | | | |
| Learning objectives Developing the ability to understand the connection between the structure of organic compounds and their reactivity in the chemical reactions. Developing the ability to understand and to interpret the transformations of selected classes of organic compounds in solving theoretical or practical problems in organic chemistry. Developing practical skills for safe work in a laboratory. | | | |
| Learning outcomes After a successfully mastered course, the student is able to: demonstrate acquired knowledge of characteristic transformations in organic molecules; on simple examples demonstrates the knowledge of the basic principles and rules of chemical transformations of organic compounds; demonstrates the acquired knowledge of the characteristic reactions of selected classes of organic compounds; uses simple molecular organic molecule models to show their spatial structure. | | | |
| Syllabus <i>Theoretical instruction</i> The nature of organic reactions. Reactivity of major classes of organic compounds: alkanes, alkylhalogenides, alcohols, alkenes, polymers and alkynes, aromatic compounds, aldehydes and ketones, amines, heterocycles, carboxylic acids and their functional derivatives, carbohydrates, aminoacids. <i>Practical instruction</i> Experimental performance of individual operations in organic laboratory. Examination of chemical properties of major classes of organic compounds. | | | |
| Weekly teaching load | | | Other: |
| Lectures: 2 | Exercises: 2 | Other forms of teaching: | |