|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **UNIVERSITY OF NIŠ** | | | | | | |
| **Course Unit Descriptor** | | **Faculty** | | | **Faculty of Medicine**  **University of Niš** | |
| **GENERAL INFORMATION** | | | | | | |
| Study program | | | | **INTEGRATED ACADEMIC STUDIES OF PHARMACY** | | |
| Study Module (if applicable) | | | |  | | |
| Course title | | | | **ORGANIC CHEMISTRY 1** | | |
| Level of study | | | | ☐Bachelor ☐Master’s ☐ Doctoral | | |
| Type of course | | | | x Obligatory ☐ Elective | | |
| Semester | | | | x Autumn xSpring | | |
| Year of study | | | | **I** | | |
| Number of ECTS allocated | | | | **6** | | |
| Name of lecturer/lecturers | | | | **Associate Professor Mirjana Abramović**  **Full Professor Nataša Trutić**  **Assistant Professor Jelena Lazarević** | | |
| Teaching mode | | | | xLectures ☐Group tutorials ☐ Individual tutorials  xLaboratory work ☐ Project work ☐ Seminar  ☐Distance learning ☐ Blended learning ☐ Other | | |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** | | | | | | |
| * Understanding types and structures of chemical bonds, types of hybridization and electronic effects of organic compounds. * Acquisition of fundamental knowledge about classes of organic compunds (systemic naming, structures, derivation and reactivity) * Learning about types and mehanisms of organic reactions * Knowledge of the most important characteristics and reactivity of organic molecules and understanding mechanisms of organic reactions. * Developing elementary base for connecting structures and functions of organic molecules | | | | | | |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** | | | | | | |
| Atoms and molecules, chemical bonds, attraction interactions between organic molecules; acids and bases. Orbitals and their role in the creation of bonds; functional groups. Reactions of organic compounds and reaction mechanisms. Stereohemistry and work with models. Nomenclature, physical and chemical properties, mechanisms of characteristic reactions and application of basic organic classes of organic compounds: alkanes, halogenoalkanes, alcohols, thiols, ethers, thioethers, unsaturated carbohydrates, aromatic compounds, aldehydes and ketones, carboxyl acids and its derivatives, amines and subtituted benzenes.  **Practical teaching**  Stereochemistry and work with models. Indroducing basic laboratory techniques: simple destillation, fraction destillation, destillation with steam, extraction methods, crystallization, drying. Determination of physical-chemical constants of organic coumpounds. | | | | | | |
| **LANGUAGE OF INSTRUCTION** | | | | | | |
| xSerbian (complete course) ☐xEnglish (complete course) ☐ Other \_\_\_\_\_\_\_\_\_\_\_\_\_ (complete course)  ☐Serbian with English mentoring ☐Serbian with other mentoring \_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | | | | |
| **ASSESSMENT METHODS AND CRITERIA** | | | | | | |
| **Pre exam duties** | **Points** | | **Final exam** | | | **points** |
| **Activity during lectures** | **Up to 10 points** | | **Written examination** | | | **Up to 50 points** |
| **Practical teaching** | **Up to 15 points** | | **Oral examination** | | |  |
| **Teaching colloquia** | **Up to 25 points** | | **OVERALL SUM** | | | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** | | | | | | |