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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty**  | **Faculty of Medicine****University of Niš** |
| **GENERAL INFORMATION** |
| Study program  | **INTEGRATED ACADEMIC STUDIES OF MEDICINE** |
| Study Module (if applicable) |  |
| Course title | **CHEMISTRY IN MEDICINE I** |
| Level of study | ☐Bachelor ☐Master’s ☐ Doctoral |
| Type of course | ☐ Obligatory x Elective |
| Semester  |  ☐ Autumn xSpring |
| Year of study  | **I** |
| Number of ECTS allocated | **4** |
| Name of lecturer/lecturers | **Associate Professor Mirjana Abramović** |
| Teaching mode |  xLectures ☐Group tutorials ☐ Individual tutorials ☐Laboratory work ☐ Project work ☐ Seminar ☐Distance learning ☐ Blended learning ☐ Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| Acquisition of knowledge in a field of chemistry necessary for understanding chemical processes at the level of the living cell. Introduction of basic chemical principles, chemical laws and basic inorganic and organic molecules. Acquisition of knowledge from this field of chemistry should enable and help students to understand biological processes as mechanisms of metabolic control. |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Structure of atom and chemical bonds. Types of inorganic compounds. Solutions. Chemical balance in the solution of weak electrolytes. Ionic concentrations. Kw. pH. Buffers and colligative properties of solutions. Oxidoreductions of biosystems. Chemical thermodynamics, chemical kinetics and chemical balance. Selected chapters from organic chemistry: hydrocarbons, halogeni derivatives of hydrocarbons, alcohols, phenols, ethers, aldehydes and ketons. |
| **LANGUAGE OF INSTRUCTION** |
| xSerbian (complete course) ☐ English (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 90 points** |
| **Practical teaching** |  | **Oral examination** |  |
| **Teaching colloquia** |  | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |