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| **Faculty of Sciences and Mathematics, UNIVERSITY OF NIŠ** | | | | | | |
| **Course Unit Descriptor** | | **Faculty** | | |  | |
| **GENERAL INFORMATION** | | | | | | |
| Study program | | | | **Postgraduate** | | |
| Study Module (if applicable) | | | | Applied chemistry | | |
| Course title | | | | Inorganic compounds in medicine and pharmacy | | |
| Level of study | | | | ☐ Bachelor ☒ Master’s ☐ Doctoral | | |
| Type of course | | | | ☐ Obligatory ☒ Elective | | |
| Semester | | | | ☐ Autumn ☒ Spring | | |
| Year of study | | | | First | | |
| Number of ECTS allocated | | | | 5 | | |
| Name of lecturer/lecturers | | | | Maja N. Stanković, Nenad S. Krstić | | |
| Teaching mode | | | | ☒ Lectures ☐ Group tutorials ☒ Individual tutorials  ☒ Laboratory work ☐ Project work ☐ Seminar  ☐ Distance learning ☐ Blended learning ☐ Other | | |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** | | | | | | |
| *Introduction with the inorganic compounds used in medicine and pharmacy (role, reactivity, etc.)*  *Understanding of the role and fundamental application of inorganic compounds in pharmacotherapy and diagnostics (modern analytical techniques NMR, CET, etc.)* | | | | | | |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** | | | | | | |
| Biological and medicinal importance of salts: halides, carbonates, sulphates, phosphates. Biological aspects of alkali and -alkaline earth metals. Biomedical importance of d-metals (Fe, Co, Ni, Zn, and Mo). Use of coordination compounds as cytostatics (Pt, Ti, Ru, Ga). Use of the compounds of gold and silver. Radiopharmaceutics: compounds of d-metals and lanthanides. Compounds of d-metals as contrast agents in the techniques of magnetic resonance. Macrocyclic ligands in coordination chemistry. | | | | | | |
| **LANGUAGE OF INSTRUCTION** | | | | | | |
| ☒ Serbian (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** | **5** | | **Written examination** | | | **/** |
| **Practical teaching** | **5** | | **Oral examination** | | | **30** |
| **Teaching colloquia** | **60** | | **OVERALL SUM** | | | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** | | | | | | |