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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** |