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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) |  |
| Course title | The Techniques and Methods for the Characterization of Inorganic Compounds |
| Level of study | ☐ Bachelor ☒ Master’s ☐ Doctoral |
| Type of course | ☒ Obligatory ☐ Elective |
| Semester  | ☒ Autumn ☐ Spring |
| Year of study  | First |
| Name of lecturer/lecturers | Dragan M. Đorđević |
| Teaching mode | ☒ Lectures ☒Group tutorials ☐ Individual tutorials☐ Laboratory work ☐ Project work ☐ Seminar☐ Distance learning ☐ Blended learning ☐ Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| *Introduction to modern and complex instrumental techniques that are used in characterization of inorganic compounds. Student is able to: provide techniques and methods for obtaining certain specific information on compounds and with the help of literature is able to analyze the results obtained specific analysis technique.* |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Introduction; Sampling; Statistical beard measurement results ; characterization of complex compounds; UV-VIS spectroscopy; Infrared spectrophotometry; The electron-spin the resonance spectrometry; Electron microscopy with a microprobe; atomic absorption spectrophotometry; The optical-emission spectroscopy; Optical emission spectroscopy-with inductively coupled plasma; Term papers. |
| **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** |