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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** | | | | | | |