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| **UNIVERSITY OF NIŠ** | | | | | | |
| **Course Unit Descriptor** | | **Faculty** | | | Faculty of Occupational Safety in Niš | |
| **GENERAL INFORMATION** | | | | | | |
| Study program | | | | Environmental Protection | | |
| Study Module (if applicable) | | | | / | | |
| Course title | | | | Instrumental methods of pollution control | | |
| Level of study | | | | ☒Bachelor ☐ Master’s ☐ Doctoral | | |
| Type of course | | | | ☐ Obligatory ☒ Elective | | |
| Semester | | | | ☐ Autumn ☒Spring | | |
| Year of study | | | | 4th | | |
| Number of ECTS allocated | | | | 6 | | |
| Name of lecturer/lecturers | | | | Danilo Popović | | |
| Teaching mode | | | | ☒Lectures ☐Group tutorials ☐ Individual tutorials  ☒Laboratory work ☒ Project work ☐ Seminar  ☐Distance learning ☐ Blended learning ☒ Other | | |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** | | | | | | |
| *Preparing students for individual or team work in pollution control processes, and for interpretation and adequate perception of invalid analysis results. After the course tudents will be able to apply methods of pollution examination and control and properly interpret results in their theoretical and practical work.* | | | | | | |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** | | | | | | |
| Introduction to quantitative analytical chemistry; Sampling methods; Transport and storage of sampled material; Instrumental methods of chemical analysis of inorganic and organic environmental pollutions (electro‐analytical, spectrochemical and chromatographic methods; nuclear magnetic resonance, mass spectrometry, etc.); Mobile instruments of pollution control; Processing of obtained data and presentation of instrumental analysis results.  Determination of pollutant concentrations in all environmental spheres. | | | | | | |
| **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** | **10 (project work) + 15 (term papers)** | | **Oral examination** | | | **40** |
| **Teaching colloquia** | **30** | | **OVERALL SUM** | | | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** | | | | | | |