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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 | Chemistry of gases |
| Level of study | ☐ Bachelor ☒ Master’s ☐ Doctoral |
| Type of course | ☐ Obligatory ☒ Elective |
| Semester  | ☐ Autumn ☒ Spring |
| Year of study  |  |
| Number of ECTS allocated | 4 |
| Name of lecturer/lecturers | Maja N. Stanković, Tatjana D. Andjelković |
| 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 fundamental gas laws, chemical properties of gases, the cycling processes of matter in atmosphere, methods of contaminant determination in real samples.* |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| The gas laws. Chemistry of oxygen and ozone. Chemistry of nitrogen and its oxides. Chemistry of carbon oxides. Chemistry of gaseous compound of halogen elements. Atmosphere. Techniques of gas analyses (gas chromatography, spectrometric methods, electrochemical sensors, etc.). Determination of main aero-contaminants (carbon(II)-oxide, nitrogen oxides, ozone, sulphur(IV)-oxide). |
| **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** | **20** |
| **Practical teaching** | **5** | **Oral examination** | **20** |
| **Teaching colloquia** | **50** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |