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| **UNIVERSITY OF NIŠ** | | | | | | |
| **Course Unit Descriptor** | | **Faculty** | | | Faculty of Occupational Safety in Niš | |
| **GENERAL INFORMATION** | | | | | | |
| Study program | | | | Environmental Engineering | | |
| Study Module (if applicable) | | | | / | | |
| Course title | | | | Air pollution and health risk | | |
| Level of study | | | | ☐ Bachelor ☐ Master’s ☒Doctoral | | |
| Type of course | | | | ☐ Obligatory ☒Elective | | |
| Semester | | | | ☒Autumn ☐Spring | | |
| Year of study | | | | Second year | | |
| Number of ECTS allocated | | | | 10 | | |
| Name of lecturer/lecturers | | | | Amelija Djordjević | | |
| 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 scientific methods of causality assessment of developmental, spatial and temporal correlation between air pollution and health risks in the exposed population, as well as the application of scientific methods of health risk assessment and classification. Understanding biochemical mechanisms of air pollutants with the aim to evaluate the consequences of the effects of air pollution on health and life quality of the exposed population.* | | | | | | |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** | | | | | | |
| Health risk assessment through the stages of assessment, dose‐ response relationship, hazard identification, exposure assessment and risk characterization phase. Evaluation of potential dose, accepted doses and internal inhaled doze of air pollutants. Evaluation of substance toxicity, the assessment of the level of the reference dose and exposure assessment. Modern epidemiological methods of studying causal relationship between health problems and air pollution. Planning and functioning of biomonitoring in terms of health risk assessment. Identification of health risk areas and implementation of protective measures. | | | | | | |
| **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** |  | | **Written examination** | | |  |
| **Practical teaching** |  | | **Oral examination** | | |  |
| **Seminary work** | **2x50 = 100** | |  | | |  |
| **Teaching colloquia** |  | | **OVERALL SUM** | | |  |
| **\*Final examination mark is formed in accordance with the Institutional documents** | | | | | | |