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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 | Ecological Risk Management |
| 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)** |
| *The study of environmental risk and modern systems of environmental safety in the context of sustainable quality of life, the integrity of the living environment, prevention and response to ecologically generated processes by preventing negative consequences on the living environment.* |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| The modern concepts of global safety and environmental risks and threats. Specific environmental risks facing the Earth (drought, loss of biodiversity, overpopulation, accidents). Strategies and doctrines about the environmental safety in the EU. The assessment of environmental risk. Environmental risk assessment planning. Problem formulation phase. The analysis phase. Characterization of environmental risk. Influence of environmental information to the decisions of risk managers. Environmental risk management phases. Risk management based on risk minimization. Environmental risk management of continuous pollutant emissions. Environmental risk management of accidental pollutant effluents. Managing environmental risks of fire and explosion. Human health risk assessment. Exposure assessment. The components of the exposure assessment. Toxicity assessment. Toxicity assessment of non‐cancer effects. Toxicity assessment of cancer effects. Risk characterization. Risk characterization of non‐cancer effects. Risk characterization for cancer effects. |
| **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** |