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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 | Systems and Risk Theory |
| Level of study | ☒Bachelor ☐ Master’s ☐ Doctoral |
| Type of course | ☒ Obligatory ☐ Elective |
| Semester  | ☐ Autumn ☒Spring |
| Year of study  | Second year |
| Number of ECTS allocated | 6 |
| Name of lecturer/lecturers | Suzana Savić, Evica Stojiljković |
| Teaching mode |  ☒Lectures ☐Group tutorials ☐ Individual tutorials ☐Laboratory work ☐ Project work ☒ Seminar ☐Distance learning ☐ Blended learning ☒ Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| *Acquiring knowledge about fundamental principles and laws of Systems theory and Risk theory, with their application in risk management. Students will gain knowledge about the principles and laws of system behavior and about the significance, elements, and processes of system risk management; they will become skilled at applying a systemic approach in the analysis and solution of multidisciplinary problems of occupational and environmental risk management.* |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Introduction to systemic reasoning – development of systemic ideas, analytical and systemic reasoning, systemic approach, and systemic sciences. General systems theory – origin and development, principles and laws. System – performance, quality, quality measurement. Systemic models – significance and principles of modelling; types of models; generating of systemic models, systemic model properties. Management – the term, elements, and principles of management; main elements in a regulation system; main dynamic elements of a management system. Risk theory – the term, objective and subjective basis of risk; indicators, quantification, and division of risk; systemic understanding of risk. Risk management – the term, approaches, features; risk management elements and processes; elements and particularities of risk management system operation. |
| **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** | **10** | **Written examination** | **40** |
| **Practical teaching** | **20 (term paper)** | **Oral examination** | **/** |
| **Teaching colloquia** | **30** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |