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| **UNIVERSITY OF NIŠ** | | | | | | |
| **Course Unit Descriptor** | | **Faculty** | | | Faculty of Occupational Safety in Niš | |
| **GENERAL INFORMATION** | | | | | | |
| Study program | | | | Occupational Safety | | |
| Study Module (if applicable) | | | | / | | |
| Course title | | | | Risk Assessment Methods | | |
| Level of study | | | | ☒Bachelor ☐ Master’s ☐ Doctoral | | |
| Type of course | | | | ☒ Obligatory ☐ Elective | | |
| Semester | | | | ☒ Autumn ☐Spring | | |
| Year of study | | | | Fourth year | | |
| Number of ECTS allocated | | | | 5 | | |
| Name of lecturer/lecturers | | | | 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 features, advantages, and drawbacks of methods used in the risk assessment process.. Students will be able to correctly choose and practically apply risk assessment methods.* | | | | | | |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** | | | | | | |
| Basic risk terminology. Risk assessment – approaches and determinants. Basic risk assessment stages. Division of risk assessment methods. Methods for risk assessment of technical systems: Energy Analysis, Hazard and Operability Analysis, Failure Mode and Effects (and Criticality/Detection) Analysis, Fault Tree Analysis, Event Tree Analysis. Methods for human reliability assessment: Human Error Analysis, overview of methods for Human Reliability Assessment. Methods for accident analysis: Change Analysis, Safety Function Analysis, Deviation Analysis, Job Safety Analysis, The complex Method for Assessment of Overall Hazard of an Accident. Methods for managemant risk assessment: Audits, Safety, Health, and Environmental Managemant System, Managemand Oversight and Risk Tree. Methods for environmental risk analysis: Life Cycle Analysis, Exergetic Life Cycle Analysis. Synergy of methods. Case studies – practical application of methods. | | | | | | |
| **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** | | | **20** |
| **Practical teaching** | **20 (term paper)** | | **Oral examination** | | | **20** |
| **Teaching colloquia** | **30** | | **OVERALL SUM** | | | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** | | | | | | |