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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty**  | Faculty of Occupational Safety in Niš |
| **GENERAL INFORMATION** |
| Study program  | Occupational Safety Engineering  |
| Study Module (if applicable) | / |
| Course title | Human Error Theory |
| Level of study | ☐Bachelor ☒ Master’s ☐ Doctoral |
| Type of course | ☐ Obligatory ☒ Elective |
| Semester  |  ☒ Autumn ☐Spring |
| Year of study  | First 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)** |
| *Students will be able to understand the nature and causes of human errors, to apply methods for identifying and quantifying human errors, to assess risks of human errors, and to give adequate proposals for reducing human errors to an acceptable level. Acquiring knowledge about the nature of human behavior and causes of human errors, as well as about methods for identifying and quantifying human errors.* |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Term, definitions, and classifications of human errors. Nature and causes of human errors. Human error theories. Basic steps in human error assessment. Human error identification. Problem definition. Task analysis. Human error analysis. Error presentation. Testing of error significance. Error impact assessment. Databases on human errors, mechanisms and factors of performance shaping. Human error identification methods (HAZOP, GEMS, SHERPA). Methods for human error quantification – Absolute Probability Judgement, Success Likelihood Index Method, Human Error Assessment and Reduction Tchnique, Tecnique for Human Error Rate Prediction. Human error mitigation: reduction, operator training models for acting in risk events, quality assurance, documentation. 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** | **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** |