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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 | Fire and Explosion Risk Assessment |
| 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 | Dušica Pešić |
| Teaching mode | ☐ Lectures ☐ Group tutorials ☒ Individual tutorials ☐Laboratory work ☐ Project work ☒ Seminar ☐Distance learning ☐ Blended learning ☐ Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| *Acquiring the knowledge required for the analysis and evaluation of fire and explosion risk and preparing students to apply scientific and professional achievements in solving the problems of fire and explosion safety problems, and to participate in development and management of fire and explosion safety systems.**Students will be able for risk assessment of fire and explosion with the aim to apply an integrated system of fire and explosion protection.* |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Fire danger (primary and secondary). Fire risk as a result of the probability of fire and estimated losses and damages. Fire risk assessment (probability of occurrence and development). Determining the level of fire risk (potential and acceptable). Factors of fire risk assessment (fire load, fire location, ventilation, fire spread, the level of preventive safety, etc.). Methods for risk assessment (analytical, algebraic, numeric, etc.). Risk assessment of explosion and fire in buildings. Risk assessment of fire and explosion in the open air. Modeling fire and explosion in the indoor and outdoor space (physical and empirical models, models of mathematical analogies and simulation models) |
| **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** | **Oral examination** | **20** |
| **Teaching colloquia** | **30** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |