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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 | Design of Integrated Fire and Explosion Protection |
| 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, Milan Blagojević |
| 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 necessary for solving problems of fire protection and fire protection system management with the aim to implement an integrated fire and explosion system of protection.**Students will be qualified to develop methodologies, methods and procedures for the management of integrated fire and explosion safety system.* |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Systems for automatic detection and fire alarm systems (conventional, addressable and analogue addressable). Fire detectors ‐ types and criteria for selection and placement inside the building. Control panels. Fixed fire extinguishing systems (types and applications). Fire hydrant network. Fixed water fire extinguishers (sprinklers and drenchers), foam fire extinguishers, CO2 fire extinguishers, powder CO2 fire extinguishers, etc. Selection and calculation of elements of fixed fire‐extinguishing systems. Systems for detection of flammable gases or vapours. Explosion protection systems. Smoke and dust extraction systems. Integrated systems of fire and explosion protection. |
| **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** | **30** | **Oral examination** | **20** |
| **Teaching colloquia** | **20** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |