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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 | Electrotechnical Systems in Safety |
| Level of study | ☒Bachelor ☐ Master’s ☐ Doctoral |
| Type of course | ☐ Obligatory ☒ Elective |
| Semester  | ☐ Autumn ☒ Spring |
| Year of study  | IV |
| Number of ECTS allocated | 5 |
| Name of lecturer/lecturers | Dejan Petković, Dejan Krstić |
| Teaching mode |  ☒Lectures ☒Group tutorials ☐ Individual tutorials ☒ Laboratory work ☒ Project work ☐ Seminar ☐Distance learning ☐ Blended learning ☐ Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| *Acquiring theoretical and practical knowledge necessary for an engineer in production‐technical systems in an occupational environment, which pertain to protection of human lives and protection of systems and facilities against physical phenomena related to charge accumulation and movement and transfer of electricity.* |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| **Electromagnetic thermostats, switches, and brakes, Sensors and detectors, optical curtains, programmable logical controllers, intelligent agents. Electrical lighting: methods of calculation, design, and measurement, Controlling electrical lighting and HVAC systems, Electrostatic precipitators, Integrated safety systems (fire, burglary, access, occupational and environmental monitoring), Protection of electrotechnical devices against electrostatic discharge (ESD), Electromagnetic compatibility, marking, Integration and collaboration of electrotechnical systems in occupational safety and environmental protection, Electrotechnical systems and occupational and environmental pollution.** |
| **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** | **5** | **Written examination** | **20** |
| **Practical teaching** | **10+10** | **Oral examination** | **35** |
| **Teaching colloquia** | **20** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |