|  |
| --- |
|  **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 | Electrical facilities and instalations |
| Level of study | ☒Bachelor ☐ Master’s ☐ Doctoral |
| Type of course | ☐ Obligatory ☒ Elective |
| Semester  | ☒ Autumn ☐Spring |
| Year of study  | Third year |
| Number of ECTS allocated | 6 |
| Name of lecturer/lecturers | Ljubiša Vučković |
| 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 the electric energy system and types, modes of execution, and constituent elements of electrical facilities and installations.* |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Electric energy system. Electricity production: alternate current – three‐phase systems, generators, transfer systems, distribution systems. Elements of electrical facilities: buses, switches, separators, surge arresters, transformers, inductors, capacitors. High‐voltage electrical facilities: classification, types, modes of execution. General features and classification of electrical installations. Electrical installation elements. Marking of conductors and cables. Permanently allowed currents in electrical installations. Technical requirements for execution of electrical installations. General requirements for low‐voltage electrical installations. Electrical installations in construction sites. Special low‐voltage electrical installations. Electrical installation maintenance. Electrical installation inspection and testing. |
| **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** | **0** | **Oral examination** | **20** |
| **Teaching colloquia** | **50** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |