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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 | Industrial Toxicology |
| Level of study | ☐Bachelor ☒ Master’s ☐ Doctoral |
| Type of course | ☐ Obligatory ☒ Elective |
| Semester  |  ☐ Autumn ☒Spring |
| Year of study  | 1st |
| Number of ECTS allocated | 4 |
| Name of lecturer/lecturers | Danilo Popović |
| 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 general physiological, toxicological, and biochemical metabolic processes and toxins ingested by workers in industrial plants. After the course students will be able to identify major toxic substances found in the occupational environment, either individually or in a team.* |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Toxicology is a scientific discipline studying toxic effects of various substances and their mixtures on living organisms. It studies interactions of chemical substances and biological systems that quantitatively determine the ability of a substance to cause changes that lead to toxic effects on living organisms and professionally exposed workers in the occupational environment. Effects of different doses of a chemical agent on the level or frequency of a toxic effect. Professional poisoning. Biological indicators of professional poisoning. Biomarkers of exposure, toxic effects, and sensitivity. Classification of occupational toxic substances. Characteristics of toxic substances. Exposure to toxic substances; toxicokinetics, and toxicodynamics. Inorganic toxic substances. Organic toxic substances. Occupational safety measures. |
| **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** |  |
| **Practical teaching** | **5** | **Oral examination** | **40** |
| **Teaching colloquia** | **50 (25 + 25)** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |