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| **UNIVERSITY OF NIŠ** | | | | | | |
| **Course Unit Descriptor** | | **Faculty** | | | Faculty of Occupational Safety in Niš | |
| **GENERAL INFORMATION** | | | | | | |
| Study program | | | | Environmental Engineering | | |
| Study Module (if applicable) | | | | / | | |
| Course title | | | | Ecotoxicology | | |
| 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 | | | | Tatjana Golubović, 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 toxic effects and the fate of chemical substances in the environment, i.e. about the effect of chemical substances on biological organisms in ecosystems with special emphasis on human health. Acquired knowledge enables studying the effects of various chemical pollutants on biological organisms and ecosystems such as land, water, and air, with special emphasis on the effects on human health.* | | | | | | |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** | | | | | | |
| Definitions of ecotoxicology; environmental pollution sources; harmful effect of polluting substances on the living world; toxicology basics; definition of toxin; dose‐response ratio; toxicity mechanisms; resorption, distribution, and elimination of toxins; biotransformation of toxins, teratogenic and mutagenic effects of pollution. Natural and anthropogenic sources of atmospheric pollution, effects of pollution on human organism, plants, animals, and material possessions. Natural and anthropogenic sources of soil pollution. Natural and anthropogenic sources of water pollution. Biological indicators of water pollution. The term food, ecotoxicological aspects of food, pollution of food and drinking water by chemical substances, effect of air and soil on food, evaluation of the effect on health, management systems, organic production of food. | | | | | | |
| **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** | **15** | | **Oral examination** | | | **20** |
| **Teaching colloquia** | **40 (20 + 20)** | | **OVERALL SUM** | | | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** | | | | | | |