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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty**  | Faculty of Occupational Safety in Niš |
| **GENERAL INFORMATION** |
| Study program  | Environmental Protection |
| Study Module (if applicable) | / |
| Course title | Soil Protection |
| Level of study | ☒Bachelor ☐ Master’s ☐ Doctoral |
| Type of course | ☒ Obligatory ☐ Elective |
| Semester  | ☐ Autumn ☒Spring |
| Year of study  | 3rd |
| Number of ECTS allocated | 6 |
| Name of lecturer/lecturers | Tatjana Golubović |
| 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 soil pollution and about subsequent hazards for humans, animals, plants, and organisms in the soil. After this course students will be able to apply acquired knowledge and skills in soil protection and its remediation and recultivation.* |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Soil as a complex of ecological factors, basic soil types, soil in polluted and unpolluted habitats, importance of soil to plants, plants from soil polluted by heavy metal, plants from soil polluted by organic waste. Natural and anthropogenic sources of soil pollution, soil damage category, soil degradation. Effects of air pollution on soil, soil pollution by heavy metals, effect of heavy metals on plants, soil pollution by pesticides, and soil pollution by radionuclides. Determining the content of harmful toxic substances in plants to evaluate the hazard of their entering the food chain and of their harmfulness to humans and animals. Soil and plant sampling, principles, characters and possibilities of soil pollution testing, effect of irrigation on soil. Soil pollution by organic waste, self‐purifying capability of soil, soil remediation and phytoremediation. Sustainable agriculture and organic food production. |
| **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** | **10 + 15 (term papers)** | **Oral examination** | **40** |
| **Teaching colloquia** | **30** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |