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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 | Soil pollution and remediation |
| Level of study | ☐ Bachelor ☐ Master’s ☒ Doctoral |
| Type of course | ☐ Obligatory ☒ Elective |
| Semester  | ☒ Autumn ☐Spring |
| Year of study  | Second year |
| Number of ECTS allocated | 10 |
| 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 sentenc** |
| *The students of doctoral studies should, by acquiring scientific knowledge, competence and academic skills, master modern methods of identifying types of pollutants, pollution intensity, contaminated sites, as well as the procedure of selecting optimal methods of soil remediation. Students will be able to scientifically, independently, or as a team, comprehensively consider the problems of soil pollution and remediation: from determining the source, through the identification of types of pollutants and their transformation, to preventing soil pollution and remediation.* |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Soil as a complex of environmental factors; Soil processes and soil pollution; Risk assessment of chemical soil pollution; Methods of sampling and testing contaminated soil; Sampling plants from contaminated soil; The processes of plant adaptation to different soil types; The dependence of the yield of aromatic and alkaloid plants from soil quality; Types and methods of soil remediation;  Remediation of soil contaminated by organic and inorganic substances; Remediation ‐ basis for sustainable development; Legislation and regulations. |
| **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** |  |
| **Practical teaching** | **30 (term papers)** | **Oral examination** | **40** |
| **Teaching colloquia** | **20** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |