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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty**  | Faculty of Occupational Safety in Niš |
| **GENERAL INFORMATION** |
| Study program  | Communal System Managemant |
| Study Module (if applicable) | / |
| Course title | Municipal Waste Management |
| Level of study | ☐Bachelor ☒ Master’s ☐ Doctoral |
| Type of course | ☒ Obligatory ☐ Elective |
| Semester  |  ☐ Autumn ☐Spring |
| Year of study  | 1 |
| Number of ECTS allocated | 5 |
| Name of lecturer/lecturers | Goran Ristić |
| 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 and skills in integral sustainable municipal waste management and treatment methods necessary for comparative analysis and optimisation of a municipal waste management system, with the goal of efficient and effective management of communal system and environmental quality. Knowledge and skills for the implementation of a systemic approach to waste management locally and regionally, for the selection of waste treatment methods, and for municipal waste management system optimization aiming towards environmental quality.* |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| **Theoretical lessons: Waste generation; Composition and quantity of municipal waste; Municipal waste collection, transport, and transfer; Municipal waste treatment. Integral sustainable waste management as an instrument for assessing the current state; Principles, elements, and aspects of integral sustainable municipal waste management; Steps in planning and developing integral sustainable municipal waste management locally and regionally; Overview and classification of waste treatment methods; Recycling – using waste material; Composting – production and use of compost for maximum exploitation of organic waste component; Incineration – energy exploitation of waste; Disposal – a necessity in a waste management system; Selection of the best waste treatment method; Environmental impact of specific waste treatment methods.** **Practical lessons: Methods and techniques of municipal waste sampling; Ascertainment of municipal waste composition. Optimization of transport flows. Selection of the best waste treatment method. Landfill management.** |
| **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** | **15** | **Oral examination** | **40** |
| **Teaching colloquia** | **40** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |