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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 | **Air Protection** |
| Level of study | ☒ Bachelor ☐ Master’s ☐ Doctoral |
| Type of course | ☒ Obligatory ☐ Elective |
| Semester  |  ☐ Autumn ☒ Spring |
| Year of study  | **III** |
| Number of ECTS allocated | **6** |
| Name of lecturer/lecturers | **Nenad Živković, Amelija Djordjević** |
| Teaching mode |  ☒ Lectures ☐Group tutorials ☐ Individual tutorials ☐Laboratory work ☐ Project work ☐ Seminar ☐Distance learning ☐ Blended learning ☐ Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| *Enabling students to analyze and assess air quality and protect ambient air against pollution.* |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Air pollution: the term, definition, air pollutions. Air pollution in the emitter‐atmosphere‐receptor system. Pollution sources. Emission: emission factors. Emission level. Immission. Air pollution transmission. Air pollution transport through the atmosphere: molecular and turbulent diffusion of air pollution. Effects of meteorological elements and phenomena on air pollution dispersion. Effect of natural and physical structures. Air pollution transformation. Air pollution deposition. Models of temporal and spatial air pollution distribution. High concentration fields. Immission. Temporal and spatial mutability of air pollution concentration. Isolines of toxicological concentrations. Norms and standards for air quality. Emission source monitoring. Air quality monitoring. Monitoring system structure. Data representation and result processing. Strategy of air quality management. Introduction to the operation of a monitoring station. Calculation of emissions from energy and technological sources. Calculation of circulation zones. Introduction to models for air pollution propagation simulation. Work with software packages for air pollution propagation simulation. Project assignment – Registry of air pollution sources and pollutant transfer. |
| **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** | **-** | **Oral examination** | **40** |
| **Projected task** | **20** |  |  |
| **Teaching colloquia** | **2 x 15 = 30** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |