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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty**  | Faculty of Occupational Safety in Niš |
| **GENERAL INFORMATION**  |
| Study program  | Occupational Safety Engineering  |
| Study Module (if applicable) | / |
| Course title | Hazardous Substance Management |
| Level of study | ☐Bachelor ☐ Master’s ☒ Doctoral |
| Type of course | ☐ Obligatory ☒Elective |
| Semester  | ☐ Obligatory ☒ Elective |
| Year of study  | Second year |
| Number of ECTS allocated | 10 |
| Name of lecturer/lecturers | Dušica Pešić, Emina Mihajlovic |
| Teaching mode | ☐ Lectures ☐ Group tutorials ☒ Individual tutorials ☐Laboratory work ☐ Project work ☒ Seminar ☐Distance learning ☐ Blended learning ☐ Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| *Acquiring scientific knowledge and principles necessary for the evaluation, analysis and management of risks caused by hazardous substances throughout all stages of the operating cycle within technological systems that contain hazardous materials, from the design, the construction, the use to their degradation.* |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Actualization and importance of hazardous substance management. Hazardous substances in manufacturing, logistics and transport processes. The classification of hazardous substances and harmonization of regulations. Characteristics of hazardous substances. Determining risks when working with hazardous substances in manufacturing, logistics and transport processes: identification, analysis, risk assessment, risk monitoring. Risk management in working with hazardous materials. Risk management of hazardous substances in manufacturing facilities – determining the criteria, procedures and algorithms with the aim to minimize risk. Vehicle routes in transportation of dangerous goods – determining criteria, procedures and algorithms with the aim to minimize risks in transport. Defining the location for the storage of hazardous materials – postulating a problem, algorithm solution. Preventive protection from undesirable effects of hazardous substances: detection, alarm and safety systems. Safety procedures and training as a form of preventive action in case of undesirable event caused by hazardous materials. |
| **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** | **20** |
| **Practical teaching** | **30** | **Oral examination** | **20** |
| **Teaching colloquia** | **20** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |