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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 | Information and Collaborative Systems |
| 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 | Miomir Stanković |
| Teaching mode |  ☒Lectures ☐Group tutorials ☒ Individual tutorials ☐Laboratory work ☐ Project work ☐ Seminar ☐Distance learning ☐ Blended learning ☐ Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| *To familiarize students with contemporary theoretical and practical aspects of Collaborative Information Systems, information technologies for support to management and decision‐making processes, basic methods, techniques and tools for the development of information and collaborative systems management in working and living environment protection.* |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Information and data for risk analysis and risk assessment in the workplace. The acquisition, storage, and processing of information from the living and working environment. Models for data processing and data analysis. The organizational aspects of information systems. Structures and processes inLocal and distributed information systems. Information and communication technologies as technical foundation of information systems. Network architecture, network hardware and software. Information systems as a basis for monitoring networks in the workplace. Safety techniques in computer networks and distributed systems. Protecting data about human resources. Systemic approach to collaboration. Interoperability of systems. The structure and elements of collaborative systems. Processes and flows in collaborative systems. Standards and standardization of collaborative systems. Technological aspects of collaboration. Modeling of collaborative systems. Managing collaborative processes and process integration. Multimedia collaboration systems. Collaborative systems intended for heterogeneous systems. Organizational and procedural aspects of collaboration. Organizational structure in relation to collaboration. Collaborative chains and multi‐collaboration organization. The human factor as the limiting factor of collaboration. The use of collaborative systems in working environment protection. |
| **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** | **15** |
| **Practical teaching** | **30** | **Oral examination** | **15** |
| **Teaching colloquia** | **30** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |