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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 | Ergonomic design |
| Level of study | ☐Bachelor ☒ Master’s ☐ Doctoral |
| Type of course | ☒ Obligatory ☐ Elective |
| Semester  | ☒ Autumn ☐Spring |
| Year of study  | 1st |
| Number of ECTS allocated | 5 |
| Name of lecturer/lecturers | Sonja Pavlovic - Veselinovic |
| 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 about ergonomic design of complex systems using interdisciplinary knowledge.* |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Origin and development of ergonomics. Corrective and systems ergonomics. Ergonomic systems. Ergonomic principles. Goals and tasks of ergonomics. Basic concepts, methods, and techniques of ergonomic design. Psychological methods. Physiological methods. Mathematical methods. Imitational methods. Ergonomic design of work space and operator’s activities. Anthropometrics and biomechanics. Information reception and processing. Analyzers of sight, sound, and touch. Memorization and decision‐making. Human-operator and control and management systems. Human absorbingcapabilities. Stress and fatigue. Ergonomic risk. |
| **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** | **40** |
| **Practical teaching** | **20** | **Oral examination** |  |
| **Teaching colloquia** | **30** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |