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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 | Ergonomics in automated 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 | 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 centers for control and management of a variety of automated systems.* |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Automation and human factor. Development of the man-machine system for control and management of automated systems. Problem areas of research. Control and management center. Standardization of ergonomic design of control and management centers. Information research methods information channels; throughput capacity of operators. Ergonomic research methods work activities of operators; operator fatigue; mental models of operators’ activities; operators’ training. Ergotechnical research of display panels, graphical displays, keyboards, command desks and working environment. The analysis of accidents and stressful situations. The analysis of operator errors and machine errors in control and management centers. Proposals for redesign and new design of control and management centers. |
| **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** | **20** | **Oral examination** | **40** |
| **Teaching colloquia** | **30** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |