|  |
| --- |
|  **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 | Working environment and health |
| 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 | Jovica Jovanovic |
| Teaching mode |  ☒Lectures ☐Group tutorials ☐ Individual tutorials ☐Laboratory work ☐ Project work ☐ Seminar ☐Distance learning ☐ Blended learning ☒ Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| *Students will acquire knowledge about the influence of occupational hazards and workload on employees’ health and quality of life, and the selection of risk assessment method for the occurrence of disease and injuries, loss of work ability and excessive mortality in certain professional groups, and will be able to perform qualification for professional health risk assessment and study the mechanisms of the impact of occupational hazards and workloads on the organs and systems in the human body; organize the research that will improve the quality of life and reduce the burden of disease and excessive mortality; forecaste and organizing other measures that will prevent or reduce the occurrence of occupational diseases and occupational trauma.* |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Health risk assessment of potential risks and hazards in the workplace. Determining specific demands and workload, and health risks. Ambient monitoring of physical hazards (noise, vibration, thermal loads, ionizing radiation, electromagnetic fields, radiation) and their impact on the health of the exposed. Ambient monitoring of biological hazards and health risk. Ambient monitoring of chemical hazards and combined toxic effects (additive, synergistic and antagonistic). Interaction between occupational hazards and dangers and assessment of health outcomes. Determining bio‐ indicators (indicators of exposure, impact indicators and indicators of sensitivity) in chronic occupational exposure and health risk assessment. Methods for evaluating the interaction between the risks from the living and working environment to health and work ability. Descriptive epidemiological methods in the study of health disorders resulting from the hazards in the working and living environment, descriptive epidemiological studies (cohort studies, clinical history studies, environmental studies). Assessment of burden of disease and excessive mortality. |
| **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** | **-** | **Written examination** | **-** |
| **Practical teaching** | **60 (term paper 20, project 40)** | **Oral examination** | **40** |
| **Teaching colloquia** | **-** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |