**DESCRIPTION OF A STUDY COURSE – SYLLABUS**

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| **Title of a course** | **Physical noxiousness** | | | | |
| **Study programme** | **Professional undergraduate study Occupational Safety** | | | | |
| **Status of a course** | Obligatory | | | | |
| **Year of study** | 2. | **Semester** | S | **ECTS credits** | 6 |
| **Teaching plan**  **(L + E + S+ Pr)** | 3+3+0+0 | | | | |
| **Goals of a course** | | | | | |
| To acquaint students with the sources of physical harm, methods of testing physical harm and the negative impact of harm on people. Analyze physical harms in accordance with the rules and standards and devise a proposal for a solution to the protection against physical harm. | | | | | |
| **Conditions for enrolling course** | | | | | |
| No conditions | | | | | |
| **Expected learning outcomes on a level of a course** | | | | | |
| 1. Razlikovati fizikalne štetnosti. 2. Primijeniti metode ispitivanja fizikalnih štetnosti. 3. Identificirati negativne utjecaje fizikalnih štetnosti na ljude. 4. Analizirati fizikalne štetnosti u sukladnosti s pravilnicima i normama. 5. Osmisliti prijedlog rješenja zaštite od fizikalnih štetnosti. 6. Distinguish physical noxiousness’s. 7. Apply physical noxiousness’s testing methods. 8. Recognize the negative effects of physical noxiousness’s on humans. 9. Analyse physical noxiousness’s in accordance with regulations and standards.   Develop a proposal for a solution for the protection against physical noxiousness’s. | | | | | |
| **Content of a course** | | | | | |
| Noise: Basic concepts, volume and units. Physical characteristics of sound. Human ear and the effect of noise on man. Criteria to evaluate noise, regulations and principles. Measuring noise and instruments. Protection from noise. Vibrations: What creates vibrations and parameters to describe them. Structure and characteristics of human body. Effect of vibrations and strokes on human body and evaluation. Methods and procedures of safeguarding from vibrations and strokes. Lights: Basic concepts and calculations. Structure and function of human eye, field of sight and its segments. Electrical sources of light, lamps and technical characteristics of light. Indoor and outdoor illumination. Ionizing radiation: Introduction to ionizing radiation. Types and source of ionizing radiation. Measurement. Human environment and radiation consequences. Protection from radiation. Temperature factors of the working environment: Composition, temperature and humidity of air. Main sources of body energy and its consumption. Forms of temperature exchange. Temperature balance equation. Limits of tolerance. Methods of protection. | | | | | |
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