**DESCRIPTION OF A STUDY COURSE – SYLLABUS**

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| **Title of a course** | **Occupational medicine** | | | | |
| **Study programme** | **Professional undergraduate study Occupational Safety** | | | | |
| **Status of a course** | Obligatory | | | | |
| **Year of study** | 2. | **Semester** | W | **ECTS credits** | 3 |
| **Teaching plan**  **(L + E + S+ Pr)** | 2+1+0+0 | | | | |
| **Goals of a course** | | | | | |
| Introduce students to the basic principles of work ability assessment and ergonomic, psychological and physiological conditions that affect the work ability of employees. | | | | | |
| **Conditions for enrolling course** | | | | | |
| No conditions | | | | | |
| **Expected learning outcomes on a level of a course** | | | | | |
| 1. Opisati ulogu medicine rada i mjere specifične zaštite radnika. 2. Utvrditi osnovne principe procjenjivanja radne sposobnosti. 3. Definirati profesionalne bolesti i bolesti koje nastanu u svezi sa radom. 4. Analizirati utjecaj umora na radnu sposobnost djelatnika i opća načela oblikovanja radnog mjesta i ergonomske standarde. 5. Describe the role of occupational medicine and specific worker protection measures. 6. Establish basic principles of work capacity appraisal. 7. Define an ergonomic program, general principles of workplace design and ergonomic standards. 8. Define psychological and physiological working conditions.   Analyse the impact of fatigue on employees’ work capacity. | | | | | |
| **Content of a course** | | | | | |
| Occupational physiology and psychology, anthropometry, biomechanic, ergonomic formation of work places. Occupational diseases, work-related diseases, diseases aggravated on work, occupational exposure to noxious effects and substances, occupational accidents. Working ability. Physiological aspects of work-loads; muscular system and work: static and dynamic work, isometric and isotonic contractions, energy consumption and work; cardiovascular system and work: heart frequency, beat volume, minute volume, arterial blood pressure, EKG; respiratory system and work: pulmonary ventilation, frequency and profundity of respiration, spiroergometrics – static and dynamic tests. Fatigue; types and signs, classical theories and modern understanding of fatigue, aspects of fatigue evaluation, relation of fatigue and working time, prevention of fatigue. Occupational accidents and injuries: contributing factors – human, environmental, socio-economic; prevention of occupational accidents. Fundamental principles of first aid. | | | | | |
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