**DESCRIPTION OF A STUDY COURSE – SYLLABUS**

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| **Title of a course** | **Fire protection at construction sites** | | | | |
| **Study programme** | **Professional undergraduate study Occupational Safety** | | | | |
| **Status of a course** | Obligatory | | | | |
| **Year of study** | 3. | **Semester** | W | **ECTS credits** | 3 |
| **Teaching plan**  **(L + E + S+ Pr)** | 2+1+0+0 | | | | |
| **Goals of a course** | | | | | |
| Introduce students to construction fire protection measures as the most effective and justifiable fire protection measures, and their obligation to comply with applicable laws. | | | | | |
| **Conditions for enrolling course** | | | | | |
| No conditions | | | | | |
| **Expected learning outcomes on a level of a course** | | | | | |
| 1. Define the procedure for ensuring the implementation of constructional and other fire protection measures. 2. Evaluate the requirements for maintaining the load-bearing capacity of building structures in the event of fire that are a part of the existing legislation. 3. Predict behaviour during fire and fire protection methods for building structures depending on their material. 4. Define types of constructional fire protection measures. 5. Based on the acquired knowledge, plan constructional fire protection measures. | | | | | |
| **Content of a course** | | | | | |
| Overview of legislative regulations, prescriptions and legal procedures for assessing construction measures in fire-protection. Principles of construction measures in fire protection prescribed by the fundamental European document, structure of documents and the new European system of labelling fire protection factors.  Basic principles of construction measures in fire protection.  Fundamental issues: fire burden, fire-protection walls, protection from smoke, protection from carrying fire to the neighbouring building, fire brigade access to buildings, net of hydrants, characteristics of construction materials. Calculating resistance to fire of carrying constructions and fire burden. Determining the size of fire sectors and the required fire resistance of carrying constructions. Calculating the ventilation needed to liberate from smoke. Determining fire exits and classes of combustion for construction materials used for fire exits. | | | | | |
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