**DESCRIPTION OF A STUDY COURSE – SYLLABUS**

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| **Title of a course** | **Fire prevention in industry** | | | | |
| **Study programme** | **Specialist professional graduate study Occupational Safety** | | | | |
| **Status of a course** | Elective | | | | |
| **Year of study** | 2. | **Semester** | W | **ECTS credits** | 5 |
| **Teaching plan**  **(L + E + S+ Pr)** | 2+1+0+0 | | | | |
| **Goals of a course** | | | | | |
| Introduce students to the basic principles of industry fire prevention and the characteristic features of fire prevention by industry. To use information technology in the field of fire prevention in industry, to introduce students to tools that can be used in developing plans and procedures in preventive action. | | | | | |
| **Conditions for enrolling course** | | | | | |
| No conditions | | | | | |
| **Expected learning outcomes on a level of a course** | | | | | |
| 1. Plan preventive fire protection measures by branch of industry 2. Apply legislative regulations regarding the storage of flammable liquids and gases 3. Evaluate the hazards that occur in technological processes with respect to the industry branch 4. Analyse the possibilities of application of information systems in the field of fire prevention measures in industry | | | | | |
| **Content of a course** | | | | | |
| Managing fire risks. Safety of people in industrial plants. Managing and storing flammable liquids and industrial gasses. Storage and usage of TNP and TPP in industry. Industrial storage: general issues, causes of fire, classification of warehouses, sorts of warehouses, high-regal warehouses, fixed installations for fire extinguish, special warehouses. Industrial hygiene: layout of plants and equipment, proper usage, cleanliness and neatness, managing and handling of waste material, surveillance. Heating and ventilation: specific questions. Inner transport: vehicles, conveyors, cranes, pipeline systems. Waste management: classification, assembling, compacting, incineration, disposal. Operations with fire: welding, cutting, grinding etc. Increasing fire resistance by retardants, layers and shrouds. Increased concentration of oxygen: specific issues. | | | | | |
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