**DESCRIPTION OF A STUDY COURSE – SYLLABUS**

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| **Title of a course** | **Fire-fighting equipment** | | | | |
| **Study programme** | **Professional undergraduate study Occupational Safety** | | | | |
| **Status of a course** | Obligatory | | | | |
| **Year of study** | 3. | **Semester** | W | **ECTS credits** | 5 |
| **Teaching plan**  **(L + E + S+ Pr)** | 2+2+0+0 | | | | |
| **Goals of a course** | | | | | |
| The aim of the course is to acquaint the student with fire classes and appropriate media for their extinguishing, as well as fire alarm and fire systems and fire equipment. | | | | | |
| **Conditions for enrolling course** | | | | | |
| No conditions | | | | | |
| **Expected learning outcomes on a level of a course** | | | | | |
| 1. Determine the (in)appropriate extinguishing agents with respect to the fire classes  2. Valorize different stationary fire extinguishing systems  3. Analyze fire alarm systems  4. Analyze the performance of fire protection systems  5. Plan the procurement and maintenance of firefighting equipment and firefighter training | | | | | |
| **Content of a course** | | | | | |
| Fire-fighting equipment: fixed systems, net of hydrants, water supply. Fire-fighting equipment classified according to different types of fire. Pipes and fittings. Devices for protection of respiratory organs. Work-suits for heat protection. Safety fire equipment. Climbing cordage, belts, equipment needed for saving people from heights and depths. Fire-fighting pumps, classification, types, purpose. Pumps for decanting hazardous and inflammable liquid substances. Relay water supply. Equipment for obtaining foam, compressed air foam. High pressured pumps. Powerful sipping pumps. Pressured and sipping ventilation. Fire-brigade vehicles: purpose and types. Other fire-fighting equipment. Work-suits for overall protection. Equipment for cases of accidents. Equipment for water working conditions. Detection (chemical, thermo-differential). Alarming systems for cases of fire, gas and steam leak. | | | | | |
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