

### DESCRIPTION OF A STUDY COURSE – SYLLABUS

<b>Title of a course</b>	<b>Fire-fighting equipment</b>				
<b>Head of course</b>	<b>Mensur Ferhatović, Lecturer</b>				
<b>Study programme</b>	<b>Professional undergraduate study Occupational Safety</b>				
<b>Status of a course</b>	Obligatory				
<b>Year of study</b>	3.	<b>Semester</b>	V	<b>ECTS credits</b>	5
<b>Teaching plan (L + E + S+ Pr)</b>	2+2+0+0				
<b>Goals of a course</b>					
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.					
<b>Conditions for enrolling course</b>					
No conditions					
<b>Learning outcomes on a level of a study programme which includes course</b>					
Outcome 3: Assess risk and recommend protective measures. Outcome 4: Evaluate protective measures with respect to danger encountered in the work process. Outcome5: Recommend measures to eliminate or reduce danger, damage and effort. Outcome 16: Identify safety factors in the field of fire protection and explosion protection. Outcome 17: Apply legislation from the field of occupational safety and explosion protection.					
<b>Expected learning outcomes on a level of a course</b>					
<ol style="list-style-type: none"> <li>1. Differentiate classes of fire based on Croatian standards and identify (in)appropriate extinguishing agents</li> <li>2. Recognize different stationary fire extinguishing systems</li> <li>3. Distinguish fire alarm systems</li> <li>4. Define the performance of fire alarm systems</li> <li>5. Describe the plan for the procurement and maintenance of firefighting equipment, and employee training</li> </ol>					
<b>Content of a course</b>					
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.					
<b>Teaching modes</b>	<input checked="" type="checkbox"/> lectures <input type="checkbox"/> auditory exercises <input checked="" type="checkbox"/> seminars and workshops <input type="checkbox"/> distance learning <input type="checkbox"/> field classes		<input checked="" type="checkbox"/> individual assignments <input type="checkbox"/> multimedia and network <input type="checkbox"/> laboratory <input type="checkbox"/> supervisor's work <input type="checkbox"/> other _____		
<b>Comments</b>					
<b>Students' obligations</b>					
<b>Grading, evaluation and monitoring of students' work continuously during lectures and exams</b>					
Grading is based upon evaluation of course's learning outcomes' adoption. Grading is performed continuously during lectures and/or during exam, in compliance with the provisions of Regulation on the assessment of students.					

**Continuous check-up:**

Outcomes	Pre-exam I	Pre-exam 2	Pre-exam 3	Threshold	Max
Outcome 1	30%			15%	30%
Outcome 2		17,5%		8,75%	17,5%
Outcome 3		17,5%		8,75%	17,5%
Outcome 4			17,5%	8,75%	17,5%
Outcome 5			17,5%	8,75%	17,5%
Percentage of ECTS	1	2	2		
Total	30 %	35 %	35 %	50 %	100 %

A student has passed the exam if he has acquired a percentage of credits for each learning outcome higher or equal to defined threshold.

**Exam term:**

Outcomes	Written exam	Oral exam	Max
Outcome 1	28 %	2%	30%
Outcome 2	17 %	0,5%	17,5%
Outcome 3	17 %	0,5%	17,5%
Outcome 4	17 %	0,5%	17,5%
Outcome 5	17 %	0,5%	17,5%
Percentage of ECTS	4,5	0,5	
Total	96%	4%	100 %

A student has passed the exam if he has acquired a percentage of credits for each learning outcome higher or equal to defined threshold.

**Grading:**

A student has passed the exam if he has acquired at least 50% of anticipated credits of a specific learning outcome. If a student has passed learning outcomes of all courses, the accomplished credits (percentages) of all passed learning outcomes are being added, while the final grade is defined upon following table:

Range of credits (percentages)	Numerical grade	ECTS grade
90,00 – 100,00	Excellent (5)	A
75,00 – 89,99	Very good (4)	B
60,00 – 74,99	Good (3)	C
50,00 – 59,99	Sufficient (2)	D
0,00 – 49,99	Insufficient (1)	F

**Obligatory literature**

Materials from lectures

**Additional literature**

