

DESCRIPTION OF A STUDY COURSE – SYLLABUS

Title of a course	Alarm systems in the service of safety					
Head of course	Ivan Grakalić, Lecturer					
Study programme	Specialist professional graduate study Occupational Safety					
Status of a course	Obligatory					
Year of study	1.	Semester	I	ECTS credits	6	
Teaching plan (L + E + S+ Pr)	2+1+1+0					
Goals of a course						
Introduce students to the practical aspects of alarm and security systems - legislative framework, implementation and design.						
Conditions for enrolling course						
No conditions						
Learning outcomes on a level of a study programme which includes course						
Outcome 2: Apply appropriate tools and devices in the process of implementing occupational safety measures. Outcome 4: Design security systems in different work environments with a particular focus on goods and people traffic, health care, hospitality and tourism. Outcome 5: Manage safety systems in complex business entities. Outcome 13: Apply economic principles in the planning of occupational safety systems. Outcome 14: Determine workplace requirements from the occupational safety aspect.						
Expected learning outcomes on a level of a course						
<ol style="list-style-type: none"> 1. Apply current regulations regarding technical protection 2. Apply the rules of the profession, positive engineering practice and legislation in the design of technical protection 3. Create a threat assessment and other documentation in accordance with the regulations for smaller facilities 4. Develop the concept of a technical protection system for a smaller facility 5. Use AutoCAD software as a tool for graphical documentation of technical protection systems 						
Content of a course						
General information about systems of technical protection. Safety systems: characteristics, analysis of threats, principles of safety implementation. Basic parts of a system: sensors (detectors), transmission lines, central devices, power supply. Safety systems for various purposes. Consideration of the approaches to the designing of safety systems. Legal regulations.						
Teaching modes	<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 _____			
Comments						
Students' obligations						
Points related to outcomes 3 and 4 are earned exclusively at interactive workshops held in the second part of the semester.						
Grading, evaluation and monitoring of students' work continuously during lectures and exams						
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	Practical	Interactive	Threshold	Max

		pre-exam	workshops		
Outcome 1	15%			7,5%	15%
Outcome 2	15%			7,5%	15%
Outcome 3			15%	7,5%	15%
Outcome 4			30%	15%	30%
Outcome 5		25%		12,5%	25%
Percentage of ECTS	1.8	1.5	2.7		
Total	30%	25%	45%	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	5%	10%	15%
Outcome 2	5%	10%	15%
Outcome 3	0%	0%	0%
Outcome 4	0%	0%	0%
Outcome 5	5%	20%	25%
Percentage of ECTS			
Total	15%	40%	55 %

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

1. Zakon o privatnoj zaštiti
2. Pravilnik o uvjetima i načinu provedbe tehničke zaštite
3. Zakon o zaštiti novčarskih institucija
4. Delišimunović, D., Management zaštite i sigurnosti

Additional literature

1. Dodatni pravilnici iz domene tehničke zaštite

