

DESCRIPTION OF A STUDY COURSE – SYLLABUS

Title of a course	Work environment testing				
Head of course	Dinko Jurjević, 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+2+0+0				
Goals of a course					
To acquaint students with the legal regulations in the field of work environment, measuring equipment, test methods and preparation of records on microclimate testing, working noise, lighting and indication of radiation and harmful substances.					
Conditions for enrolling course					
No conditions					
Learning outcomes on a level of a study programme which includes course					
Outcome 1: Plan preventive measures in occupational safety. Outcome 12: Critically evaluate the characteristics of pollutants and their influence in the environment. 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. Analyse the impact of physical noxiousness's in the environment on humans 2. Analyse the impact of chemical noxiousness's in the environment on humans 3. Analyse the impact of biological noxiousness's in the environment on humans 4. Describe the impact of ionizing and non-ionizing radiation in the environment on humans 5. Create a work environment testing log 					
Content of a course					
Introduction to the examination of a working environment. Terminology, definitions and glossary. Legal regulations in the control of the working environment. Elements of the EN ISO 14001 standard. Sources of hazards in industry: chemical hazards (metals, paints and degreasing agents, organic solvents, plastics, gases, acids, alkalis); biological hazards (bacteria, viruses, fungi); physical hazards (electromagnetic radiation, noise, vibration, lighting). Aspects of the environment and impacts on the environment. Measurements of individual aspects of the environment. Methods of measurement and measuring instruments. Criteria for the assessment of individual aspects of the environment. Analysis of measurement results. Technical and personal measures of protection. Measures for improving the condition of the working environment					
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					
The requirement for admission to the exam is a completed project assignment.					
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	Pre-exam 2	Project assignment	Threshold*	Max**
Outcome 1	20 %			10 %	20 %
Outcome 2	20 %			10 %	20 %
Outcome 3		20 %		10 %	20 %
Outcome 4		20 %		10 %	20 %
Outcome 5			20%	10 %	20 %
Percentage of ECTS	2	2	2	-	-
Total	40 %	40 %	20 %	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	10 %	10 %	20 %
Outcome 2	10 %	10 %	20 %
Outcome 3	10 %	10 %	20 %
Outcome 4	10 %	10 %	20 %
Outcome 5		20 %	20 %
Percentage of ECTS	3	3	
Total	40 %	60 %	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

Tehnička enciklopedija, svezak 13 1997., Leksikografski zavod Miroslav Krleža, Zagreb

Additional literature

Jurjević, D.. Ispitivanje radnog okoliša, 2015. interna skripta

