

### DESCRIPTION OF A STUDY COURSE – SYLLABUS

<b>Title of a course</b>	Occupational medicine				
<b>Head of course</b>	Kristina Dundović, Lecturer				
<b>Study programme</b>	Professional undergraduate study Occupational Safety				
<b>Status of a course</b>	Obligatory				
<b>Year of study</b>	2.	<b>Semester</b>	III	<b>ECTS credits</b>	3
<b>Teaching plan (L + E + S+ Pr)</b>	2+1+0+0				
<b>Goals of a course</b>					
Introduce students to the basic principles of work ability assessment and ergonomic, psychological and physiological conditions that affect the work ability of employees.					
<b>Conditions for enrolling course</b>					
No conditions					
<b>Learning outcomes on a level of a study programme which includes course</b>					
Outcome 2: Perform and interpret measurements in the field of occupational safety in a laboratory and in the work environment.					
Outcome 3: Assess risk and recommend protective measures.					
Outcome 8: Organize a system of prescribed procedures and documents in the field of occupational safety.					
<b>Expected learning outcomes on a level of a course</b>					
1. Describe the role of occupational medicine and specific worker protection measures. 2. Establish basic principles of work capacity appraisal. 3. Define an ergonomic program, general principles of workplace design and ergonomic standards. 4. Define psychological and physiological working conditions. 5. Analyse the impact of fatigue on employees' work capacity.					
<b>Content of a course</b>					
Occupational physiology and psychology, anthropometry, biomechanic, ergonomic formation of work places. Occupational diseases, work-related diseases, diseases aggravated on work, occupational exposure to noxious effects and substances, occupational accidents. Working ability. Physiological aspects of work-loads; muscular system and work: static and dynamic work, isometric and isotonic contractions, energy consumption and work; cardiovascular system and work: heart frequency, beat volume, minute volume, arterial blood pressure, EKG; respiratory system and work: pulmonary ventilation, frequency and profundity of respiration, spiroergometrics – static and dynamic tests. Fatigue; types and signs, classical theories and modern understanding of fatigue, aspects of fatigue evaluation, relation of fatigue and working time, prevention of fatigue. Occupational accidents and injuries: contributing factors – human, environmental, socio-economic; prevention of occupational accidents. Fundamental principles of first aid.					
<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	Test	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	1,2	1,2	0,6		
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	20%		20%
Outcome 2	20%		20%
Outcome 3		20%	20%
Outcome 4	20%		20%
Outcome 5	20%		20%
Percentage of ECTS	2,4	0,6	
Total	80%	20%	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**

1. Šarić, M.; Žuškin, E.: Medicina rada i okoliša, Medicinska naklada, Zagreb,
2. Vukelić, M.; Komtušci, I.: Medicina rada, skripta
3. Mikšić, D.: Uvod u ergonomiju, Udžbenik Sveučilišta u Zagrebu Fakulteta strojarstva i brodogradnje, Zagreb, 1997.
4. Raspor, S.; Mihaljević Španjić, A.; Superina, S.: Istraživanje stesora na radnom mjestu: primjer privatnih poduzeća, Zbornik radova Međimurskog veleučilišta u Čakovcu, Vol. 4 No. 2, 2013.
5. Teaching materials

**Additional literature**



