

## DESCRIPTION OF A STUDY COURSE – SYLLABUS

<b>Title of a course</b>	Ergometrics and Computer Use				
<b>Head of course</b>	Kristina Dundović, Lecturer				
<b>Study programme</b>	Specialist professional graduate study of Information Technology in Business Systems				
<b>Status of a course</b>	Obligatory				
<b>Year of study</b>	2.	<b>Semester</b>	III	<b>ECTS credits</b>	4
<b>Teaching plan (L + E + S+ Pr)</b>	1 + 0 +2				
<b>Goals of a course</b>					
Introduce students to the ergonomic principles of designing a workplace with a computer, using analysis of the elements of a computer system and analysis of the work environment.					
<b>Conditions for enrolling course</b>					
No conditions					
<b>Learning outcomes on a level of a study programme which includes course</b>					
Outcome 13: Apply appropriate ergonomic measures in the field of computer use in the workplace.					
<b>Expected learning outcomes on a level of a course</b>					
<ol style="list-style-type: none"> <li>1. Interpret the definition and principles of ergonomics.</li> <li>2. Analyse computer system elements with special reference to its ergonomic design.</li> <li>3. Analyse the working environment and its optimal conditions, as well as the characteristic health anomalies when using a computer.</li> <li>4. Determine the need to ensure optimal operating conditions when using computer equipment.</li> </ol>					
<b>Content of a course</b>					
<p>Introduction to the course. Ergometrics as a scientific discipline. Working environment. Work place. Ergometrics and rules in force. Rules in force related to providing computer equipment in a work place. Computer equipment and its application on a work place. Computer equipment ergometrics. Computer and its parts. Monitor. Keyboard. Mouse. Magnetic effects on the environment. Magnetic radiation guards. Software ergometrics. Ergometrics characteristics related to the communication between the user and computer equipment. Ergometrics of working environment. A desk. A chair. Lighting. Noises and sounds. Microclimate. Tiredness and its causes. Prevention of tiredness. Employer's attitude towards ergometrics requirements. Need for ensuring improved working conditions with computer equipment.</p>					
<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	Test	Project assignment	Presentation of a project assignment	Threshold	Max
Outcome 1	25 %			12,5 %	25 %
Outcome 2		15 %	10 %	12,5 %	25 %
Outcome 3		15 %	10 %	12,5 %	25 %
Outcome 4		15 %	10 %	12,5 %	25 %
Percentage of ECTS	1,0	2,0	1,0	-	-
Total	25 %	45 %	30 %	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	25 %		25 %
Outcome 2	20 %	5 %	25 %
Outcome 3	20 %	5 %	25 %
Outcome 4	25 %		25 %
Percentage of ECTS	3	1	
Total	90 %	10 %	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. Kroemer, K.H.E.: Prilagođavanje rada čovjeku, Ergonomski priručnik, Naklada Slap, Jastrebarsko, 2000.
2. Mikšić, D.: Uvod u ergonomiju, Fakultet strojarstva i brodogradnje, Zagreb, 1997.
3. Čerić, V. i dr.: Poslovno računarstvo, Znak, Zagreb, 1998.
4. Helen Sharp, Yvone Rogers, Jenny Preece: Interaction Design: Beyond Human – Computer Interaction, John Wiley & sons, New York, 2007.
5. Teaching materials published on the course pages

**Additional literature**



