

### DESCRIPTION OF A STUDY COURSE – SYLLABUS

<b>Title of a course</b>	<b>Multimedia Systems</b>				
<b>Head of course</b>	<b>PhD Sabrina Šuman, Senior Lecturer</b>				
<b>Study programme</b>	<b>Professional undergraduate study Information Science</b>				
<b>Status of a course</b>	Elective				
<b>Year of study</b>	2	<b>Semester</b>	IV	<b>ECTS credits</b>	5
<b>Teaching plan (L + E + S+ Pr)</b>	2+2+0+0				
<b>Goals of a course</b>					
Analyse different multimedia systems and create multimedia tracks in selected software tools.					
<b>Conditions for enrolling course</b>					
No conditions					
<b>Learning outcomes on a level of a study programme which includes course</b>					
Outcome 4: Develop an application solution for the Internet and desktop environment. Outcome 5: Apply website design and implementation methods. Outcome 7: Design and produce digital multimedia materials needed in business systems.					
<b>Expected learning outcomes on a level of a course</b>					
<ol style="list-style-type: none"> <li>1. Compare features of different types of data in a multimedia system</li> <li>2. Discuss trends and future developments of multimedia systems</li> <li>3. Interpret the basic principles of developing and building a multimedia system</li> <li>4. Create a video</li> <li>5. Create a promotional/informative graphic product</li> <li>6. Create an animation</li> </ol>					
<b>Content of a course</b>					
Processing signal for media integration. Multimedia interaction for human-machine interface. Multimedia communication and networking. Multimedia safety and content protection. Multimedia databases. Multimedia computer systems and tools. Hardware and program backup of multimedia systems. Multimedia systems' norms. Multimedia application. Quality of multimedia services.					
<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>					
Attending a seminar is a prerequisite for taking the full exam.					
<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	Written test	Practical work	Seminar work	Activity	Threshold	Max
Outcome 1	10%		10%		10%	20%
Outcome 2	5%		5%		5%	10%
Outcome 3	5%			5%	5%	10%
Outcome 4				15%	7,5%	15%
Outcome 5		30%			15%	30%
Outcome 6				15%	7,5%	15%
Percentage of ECTS	1	1,5	0,75	1,75		
Total	20 %	30 %	15%	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	Practical Exam	Theoretical (Oral / Written) exam	Threshold	Max
Outcome 1		20 %	10%	20 %
Outcome 2		10 %	5%	10 %
Outcome 3		10 %	5%	10 %
Outcome 4	15 %		7,5%	15 %
Outcome 5	30%		15%	30 %
Outcome 6	15 %		7,5%	15%
Percentage of ECTS	3	2		-
Total	60 %	40 %	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.

**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. Anderson, A., Johnson. S, Adobe Photoshop CS3Professional na dlanu, komputer biblioteka,2008.

**Additional literature**

1. Vaughan, T., Multimedia: Making It Work. Osborne McGraw-Hil, 2008.
2. Dayley, B., Dayley, D., Adobe Photoshop CS6 Bible, Wiley and Sons, 2012.

