

DESCRIPTION OF A STUDY COURSE – SYLLABUS

Title of a course	Multimedia System Development				
Head of course	Marina Rauker Koch, Lecturer				
Study programme	Specialist professional graduate study of Information Technology in Business Systems				
Status of a course	Obligatory				
Year of study	1.	Semester	II	ECTS credits	6
Teaching plan (L + E + S+ Pr)	2+2+0+0				
Goals of a course					
Introduce students to the principles, technologies and standards of multimedia, as well as the process and methodology of designing multimedia systems.					
Conditions for enrolling course					
No conditions					
Learning outcomes on a level of a study programme which includes course					
Outcome 1: Apply information and communication systems design methods Outcome 6: Apply appropriate tools in the implementation of information and communication systems. Outcome 12: Analyse and implement Internet technologies and e-business in the business information system. Outcome 17: Present ICT solutions in a business organization.					
Expected learning outcomes on a level of a course					
1. Analyse the features of multimedia data types and multimedia systems. 2. Recommend an appropriate multimedia technology platform. 3. Apply the chosen standard of data exchange via existing networks and applications, 4. Create multimedia system documentation. 5. Create a multimedia system using the selected tools.					
Content of a course					
Multimedia communication. Information content integration. Integration of various media content-hypermedia. Visualization of user interface. Multimedia devices. Multimedia document. Basic types of multimedia documents and their development. Interactive multimedia documents. Data models in hyper-media: media modelling, navigation, data and transfer perception, browsing semantics. Procedures of media processing. Specific quality of technological platforms for multimedia: CD-ROM/DVD, Web, multimedia mobile telephony, interactive television. XML and global data exchange standards. Basics of XML and XML document structure. Creating individual data format and exchange across the existing networks and applications. Data integration with existing applications using XML. Creating structure for data exchange and uniting the existing protocols and standards. Separating data from the process and functioning on any platform with different programming languages like Visual Basic, C++, Java, Pearl etc.					
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					
Develop multimedia system and supporting documentation using selected tools and methodology.					
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	Written test	Practical assignment	Project	Presentation	Threshold	Max
Outcome 1	20				10	20
Outcome 2		15		5	10	20
Outcome 3		20			10	20
Outcome 4			10		5	10
Outcome 5			20	10	15	30
Percentage of ECTS	1	2	2	1		
Total	20	35	30	15	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	10	10	20
Outcome 3	20		20
Outcome 4		10	10
Outcome 5		30	30
Percentage of ECTS	3	3	
Total	50	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. Morris, Tim: Multimedia systems: delivering, generating, and interacting with multimedia", Springer, 2000

Additional literature

1. Vaughan Tay: Multimedia : Making It Work, McGraw-Hill, 2011.

