

DESCRIPTION OF A STUDY COURSE – SYLLABUS

Title of a course	Information Systems Development				
Head of course	Associate Professor, PhD Alen Jakupović				
Study programme	Professional undergraduate study Information Science				
Status of a course	Obligatory				
Year of study	2	Semester	IV	ECTS credits	6
Teaching plan (L + E + S+ Pr)	2+3+0+0				
Goals of a course					
Acquire competences for project documentation preparation, information system development, and commercial presentation.					
Conditions for enrolling course					
Completed course Data and Process Modelling					
Learning outcomes on a level of a study programme which includes course					
<p>Outcome 2: Apply business information system design methods.</p> <p>Outcome 11: Apply mathematical and statistical methods in information science.</p> <p>Outcome 12: Apply engineering methods and principles in information science.</p> <p>Outcome 14: Participate in teamwork.</p> <p>Outcome 15: Independently present professional content in written and spoken form in Croatian and English.</p>					
Expected learning outcomes on a level of a course					
<ol style="list-style-type: none"> 1. Apply the data flow diagram method in the information system analysis phase 2. Apply the entity-relationship-attributes method and the modelling method for software architecture in the information system design phase 3. Create an information system based on models from the analysis and design phase 4. Prepare project documentation for information system development 5. Create a commercial presentation of the information system development results 					
Content of a course					
<p>Concept and definition of information system. Relation between real system and its information system.</p> <p>Life cycle and development phases. Methodological aspects of information system development. Processes and activities of information system development. Managing project of information system development. Structured and object-oriented methods of analysis and information system design. Information engineering. User role in information system development. Evaluation of users' requests. Techniques of collecting users' demands. Designing information system architecture, databases, programs and interfaces. Testing information system models. Test, implementation, documentation. Definition and classification of CASE tools. Role of applications generators and the 4th generation languages in the development of information systems.</p>					
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					
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	Project documentation	Project defense	Commercial presentation	Threshold	Max
Outcome 1	7 %	5 %	13 %		12,5 %	25 %
Outcome 2	8 %	5 %	12 %		12,5 %	25 %
Outcome 3		5 %	15 %		10 %	20 %
Outcome 4		20 %			10 %	20 %
Outcome 5				10 %	5 %	10 %
Percentage of ECTS	0,9	2,1	2,4	0,6	-	-
Total	15 %	35 %	40 %	10 %	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	7 %	18 %	25 %
Outcome 2	8 %	17 %	25 %
Outcome 3		20 %	20 %
Outcome 4		20 %	20 %
Outcome 5		10 %	10 %
Percentage of ECTS	0,9	5,1	-
Total	15 %	85 %	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. Authorized Lectures

Additional literature

1. Pavlić, M., Jakupović, A., Čandrić, S.: Modeliranje procesa, Sveučilište u Rijeci, Rijeka 2014.
2. Pavlić, M.: Informacijski sustavi, Sveučilište u Rijeci, Rijeka 2009.

