

DESCRIPTION OF A STUDY COURSE – SYLLABUS

Title of a course	Object-oriented Technologies II				
Head of course	Vlatka Davidović, Senior Lecturer				
Study programme	Professional undergraduate study Information Science				
Status of a course	Obligatory				
Year of study	3.	Semester	V	ECTS credits	6
Teaching plan (L + E + S+ Pr)	2+3+0+0				
Goals of a course					
Apply object-oriented analysis, design and programming to the development of desktop and web applications					
Conditions for enrolling course					
Completed courses Programming and Object-oriented Technologies I					
Learning outcomes on a level of a study programme which includes course					
Outcome 2: Apply business information system design methods. Outcome 4: Develop an application solution for the Internet and desktop environment. Outcome 12: Apply engineering methods and principles in information science. Outcome 15: Independently present professional content in written and spoken form in Croatian and English.					
Expected learning outcomes on a level of a course					
<ol style="list-style-type: none"> 1. Apply the principles of object-oriented analysis and design in application development 2. Create graphical interfaces to visualize program parts and interact with the user 3. Apply methods for object-relational mapping 4. Create a desktop application with basic operations for entering, viewing and updating data. 5. Create a web application with basic operations for entering, viewing and updating data. 					
Content of a course					
Object-oriented technologies on the client, network and server. Swing/AWT.GUIs and applets as tools for visualisation of programming parts. Introduction to tools: to deepen the knowledge of Swing/AWT and JFC components. Scripting and script languages. Basic concepts of HTML: usage, graphical elements HTML tags, hyperlinks. Selection and sorting. Basics of JavaScript: characteristics of script languages, variables, functions and built-in functions of JavaScript, event handlers. Object Model Java Script, JavaScript language objects, objects and their building-in the applications, cookies and security of JavaScript. Object-oriented technologies on the client, network and server. JavaScript from the client's and the server's side, image maps and browser detection. Communication between JavaScript and Java Applets. Dynamic Object of Model Java Script. Joint commands (JFC). Methods of rapid connection (RMI). Security. Control and extension standards. Tools: Oracle Jdeveloper 10g.					
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 exam	Project	Presentation	Threshold	Max
Outcome 1	10%	10%	5%	12,5%	25%
Outcome 2		10%		5%	10%
Outcome 3	10%	10%	5%	12,5%	25%
Outcome 4	5%	10%	5%	10%	20%
Outcome 5	5%	10%	5%	10%	20%
Percentage of ECTS	2,4	2,4	1,2		6
Total	30%	50%	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	10	15	25
Outcome 2	10		10
Outcome 3	10	15	25
Outcome 4	10	10	20
Outcome 5	10	10	20
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. Davidović, V.: Objektno orijentirane tehnologije II, Veleučilište u Rijeci, 2016.
2. Eckel, B.: Thinking in Java 4th Edition, Prentice Hall, 2006.

Additional literature

1. Schildt, H.: Java 2, Mikroknjiga, Beograd 2001
2. Freeman, E., Freeman, E., Sierra, K., Bates, B.: Head First Design Patterns, O'Reilly, 2004
3. Bloch, J.: Effective Java, Addison-Wesley, 2007.

