

NAME OF THE COURSE		Network Application Programming				
Code	PMIC60	Year of study				
Course teacher	izv. prof.dr. sc. Saša Mladenović dr. sc. Tonči Dadić	Credits (ECTS)	5,0			
Associate teachers	Marin Aglič Čuvić mag. educ. inf.	Type of instruction (number of hours)	L	S	E	F
			30		30	
Status of the course		Percentage of application of e-learning				
COURSE DESCRIPTION						
Course objectives	<p>This subject begins with an in-depth study of XHTML, the universal language of the Web. CSS is studied as it relates to enhancing the presentation of web content. Client-side programming is taught using JavaScript and the DOM, technologies used to create dynamic content and provide a true interactive experience for the Web site visitor. Course continues by addressing the technical skills and business knowledge required to develop data-driven web sites hosted on the Microsoft Web Platform. The course continues to focus on server-side ASP.NET programming technologies and the C# language. Students work with current and full-featured data access technologies, and interact with a local database.</p>					
Course enrolment requirements and entry competences required for the course	Basic knowledge of programming.					
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<p>Upon successful completion of this subject students should be able to:</p> <ol style="list-style-type: none"> 1. Analyze a given problem, and use JavaScript to program a browser-based solution to that problem. 2. Explain key design concepts essential to communicating with web site users. 3. Combine XHTML, CSS, and JavaScript to create dynamic web pages and integrated web sites. 4. Analyze the requirements for a web-enabled application, and use both ASP.NET and web client technologies to program a solution to the problem. 5. Use the design and productivity tools provided with Visual Studio 6. Design a suitable data access strategy, and use the appropriate technologies to work with the data 					
Course content broken down in detail by weekly class schedule (syllabus)	<ol style="list-style-type: none"> 1. Introduction to the Internet (2h) 2. Introduction to HTML/XHTML (2h) 3. Web Site Design (2h) 4. JavaScript (6h) 5. Dynamic Content with JavaScript (2h) 6. Midterm 7. ASP.NET technologies (2h) 8. ASP.NET user interface controls (2h) 9. Web applications (2h) 10. Data-driven web applications (2h) 11. Multilanguage support (2h) 12. Stored procedures in web applications (2h) 13. Security challenges in web application (2h) 14. Project (2h) 					

Format of instruction	<input checked="" type="checkbox"/> lectures <input type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> on line in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work	<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input checked="" type="checkbox"/> homework assignments				
Student responsibilities	Lecture and laboratory attendance, active participation in course activities, homework and project realization, final exam.					
Screening student work <i>(name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course)</i>	Name	Ects	Name	Ects	Name	Ects
	Class attendance	1	Research		Experimental work	
	Oral exam		Report		Homework assignments	
	Seminar essay		Essay			
	Tests		Practical training			
	Written exam	2	Project	2		
Grading and evaluating student work in class and at the final exam	Attendance/Participation (20%) Project (40%) Final/Oral Exam (40%)					
Required literature <i>(available in the library and via other media)</i>	Title			Number of copies in the library	Availability via other media	
	Osnove programiranja za web, Sveučilište u Splitu Filozofski fakultet, 2007. Lada Maleš, Saša Mladenović			0		
	JavaScript: The Definitive Guide, David Flanagan, O'Reilly (2011.)			0		
	Beginning ASP.NET 4.5 in C# Matthew MacDonald (2012.)			0		
Optional literature (at the time of submission of study programme proposal)	Online Student material, including solutions to selected problems and additional reading					
Quality assurance methods that ensure the acquisition of exit competences	Student discussion, anonymous student evaluation questionnaire, student success rate, self-assessment					
Other (as the proposer wishes to add)						