

Study program: Information Technologies and Systems			
Course title: Web Development			
Professor/assistant: PhD Zoran D. Mirović			
Type of course: Compulsory			
ECTS credits: 6			
Prerequisites: none			
Aims of the course: Students master the latest Microsoft <i>ASP.NET 3.5</i> technologies in order to create high-performance server-side web applications.			
Learning outcomes: Students gain detailed knowledge of ASP.NET 3.5 technologies, design high-performance web applications using Microsoft SQL Server databases. The skills that students acquire at practical training are in accordance with the above knowledge.			
Syllabus: <i>Theoretical part:</i> Module 1: Basic concepts Introduction to ASP.NET, Visual Studio, Web forms, server control, ASP.NET applications, State Management Module 2: Access to data ADO.NET, Data components and DataSet, Data Binding, Rich Data Controls, caching and asynchronous pages, files and data streams, LINQ, XML Module 3: Creating ASP.NET web applications User controls, themes and Master pages, navigation, Website Deployment Module 4: Advanced user interface Custom Server controls, Design-Time support, Dynamic Graphics and GDI+, portals with Web Part pages Module 5: Client-Side programming JavaScript and AJAX techniques, ASP.NET, Silverlight <i>Practical training: Exercises, Other forms of teaching, Research papers</i> Each module is covered by an appropriate number of practical classes. Students have two written tests after the second and fifth module and work on two projects.			
Literature: 1. Pro ASP.NET 3.5 in C# 2008 Matthew MacDonald and Mario Szpuszta, Apress 2008 2. Skripte iz predmeta Web systems, Zoran Mirović (on the website of the College) 3. Vežbe iz predmeta Web systems, Zoran Mirović (on the website of the College) 4. Willing L, Thompson L. 2009. PHP and MySQL: Razvoj aplikacija za Web, Mikro knjiga			
Total number of active classes: 5		Lectures: 3	Practical classes: 2
Teaching methods: Each module is covered by an appropriate number of practical classes. Students take two written tests after the second and fifth module and work on two projects.			
Grading system (maximum 100 points) grading scale from 5 to 10: below 51 points grade 5, grade 6 from 51- 60 points, grade 7 from 61- 70 points, grade 8 from 71-80 points, grade 9 from 81-90 points, grade 10 from 91- 100 points.			
Pre-exam obligations:	Points:	Final exam:	Points:
Activity during lectures	5	Oral exam	60
Practical training	5		
Written test(s)	30		