

1.	Course Title	Internet technologies		
2.	Code	F18L2S110		
3.	Study program	Software engineering and information systems		
4.	Study Program Organizer	Faculty of Computer Science and Engineering		
5.	Degree (first, second, third cycle)	first cycle		
6.	Academic year / semester 2 / summer / mandatory	7. ECTS credits 6		
8.	Teacher	associate professor Goce Armenski, assistant professor Magdalena Kostoska		
9.	Course enrollment prerequisites	Објектно-ориентирано програмирање		
10.	Course program goals (competencies): Knowledge of the mechanisms in the HTTP protocol. Introduction to Internet Application Development Platforms. Creating and developing web apps. Creating and using web services.			
11.	Course program content: Architecture of dynamic web applications. Web communication. Introduction to Web Application Development. Introduction to ASP.NET. Basics of web forms. Web controls. Master pages and themes. Management of conditions. Navigation. Working with databases. Working with databases. Web application security. SOA and web services. MVC			
12.	Learning methods: Lectures using presentations, interactive lectures, exercises (using equipment and software packages), teamwork, case studies, invited guest lecturers, independent preparation and defense of a project assignment and seminar work.			
13.	Total available time	6 ECTS x 30 hours = 180 hours		
14.	Distribution of the available time	30 + 45 + 15 + 15 + 75 = 180 hours		
15.	Teaching activity forms	15.1.	Lectures – theoretical teaching	30 hours

		15.2.	Exercises (laboratory, auditory), seminar papers, teamwork	45 hours
16.	Other activity forms	16.1.	Project Tasks	15 hours
		16.2.	Independent Learning Tasks	15 hours
		16.3.	Home learning	75 hours
17.	Assessment methodology			
	17.1.	Tests		10 points
	17.2.	Seminar paper/project (presentation: written and oral)		10 points
	17.3.	Activity and learning		10 points
	17.4.	Final exam		70 points
18.	Assessment criteria (points/grade)	up to 50 points		5 (five) (F)
		51 to 60 points		6 (six) (E)
		61 to 70 points		7 (seven) (D)
		71 to 80 points		8 (eight) (C)
		81 to 90 points		9 (nine) (B)
		91 to 100 points		10 (ten) (A)
19.	Course completion and final exam requirements	Realized activities 15.1 and 15.2		
20.	Teaching Language	Macedonian and English		
21.	Teaching quality evaluation method	Internal evaluation mechanisms and questionnaires		
22.	Course Material			
	22.1.	Mandatory course material		

No	Author	Title	Publisher	Year
1	Andrew Troelsen, Phillip Japikse	C# 6.0 and the .NET 4.6 Framework	Apress	2015
2	Imar Spaanjaars	eginning ASP.NET 4.5.1: in C# and VB	Wrox	2014
3	Matthew MacDonald	Beginning ASP.NET 4.5 in C# 2012	Apress	2012
4	Ralph F. Groove	Web-Based Application Development	Jones and Bartlett Publishers LCC	2010
22.2.	Additional course material			
No.	Author	Title	Publisher	Year