

Study program	Level of studies		First cycle	
	Study program name		Physics and Informatics Education	
Course name	WEB PROGRAMMING			
Course ID	Semester	Course status	ECTS credits	L+E
CS320	III	MANDATORY	5	2+2
Lecturer				
Aims and intended learning outcomes	<p>The objectives of the module are to familiarize students with the basics of web programming, using various tools such as HTML, CSS, XML, and JavaScript. In addition, students are introduced to the methodology of solving various problems through web programming.</p> <p>Throughout this module, students will master the use of web programming languages through independent work on laboratory exercises.</p>			
Course content				
<ul style="list-style-type: none"> - HTML. Text editing, Lists, Inserting graphics, Colors, Links, Frames, Forms. - CSS styles, Selectors, and Declarations. Classes. External style sheet. Internal style sheet. - CSS properties. Pseudo-classes and pseudo-elements. - XML. XML Objectives. Elements and attributes. XML syntax. Nested tags in XML. Namespace. - DTD schema. XML schema. XSL language for defining style. - JavaScript. Methods and functions. Windows in JavaScript. - Background. Basics of images. Navigator. Graphics and sound. Mapping and animation. - Events in JavaScript. - Basics of the JQuery scripting language. - JQuery library functions. - JQuery plugins. - Using JQuery plugins in web development. 				
Student workload (hours)		Grading		
Lectures and Exercises	60	Assessment method	Points	
Exam preparation	65	Midterm exam	5	
		Homework	5	
		Project	40	
		Seminar	5	
Total	125	Final exam	45	
		Total	100	
Literature				
<ol style="list-style-type: none"> 1. MobiPocket; Elizabeth Castro, HTML, XHTML, and CSS: Visual Quick Start Guide; 2006. 2. Ian Lloyd , Build Your Own Web Site The Right Way Using HTML & CSS, 2nd Edition; 2008. 3. Thomas A. Powell , HTML & CSS: The Complete Reference, Fifth Edition;, McGraw-Hill Osborne Media; 2010. 4. Dan Thompson, BASIC HTML - A STEP-BY-STEP Guide on How to Creating Your First Website from Begining to End, 2010. 5. Learning Web Design: A Beginner's Guide to (X)HTML, StyleSheets, and Web Graphics; Jennifer Niederst Robbins; Aaron Gustafson; 2007. 6. Chuck Musciano and Bill Kennedy , HTML & XHTML: The Definitive Guide;; O'Reilly; 2009. 7. Rob Huddleston , HTML, XHTML, and CSS: Your visual blueprint for designing effective Web pages;; 2008. 8. Laura Lemay; Rafe Colburn ,Sams Teach Yourself Web Publishing with HTML and CSS in One Hour a Day: Includes New HTML5 Coverage (6th Edition); 2010. 9. David Flanagan , JavaScript, , O'Reilly, 2006. 10. Deni Gudman, JavaScript, Biblija.2001 				
Remarks				