



SYLLABUS

Basic information of the course			
University:	University “Ukshin Hoti” - Prizren		
Academic unit:	Faculty of Computer Science		
Study program:	Information Technologies and Telecommunication		
Course:	Dynamic content of web engineering		
Study level:	Bachelor		
Course status:	Mandatory		
Study year:	3		
Number of hours per week:	2+2		
Credit value - ECTS:	6		
Time / location:	It will be published in the university web site!		
Lecturers:	Ass. Prof. Dr. Zirije Hasani Ass. Arta Misini, Ph. D. c.		
Contact details:	zirije.hasani@uni-prizren.com arta.misini@uni-prizren.com		
Course description:			
	This course enables you to learn web programming languages on the server side.		
Course objectives:			
	The purpose of this course is to observe the requirements for the use of advanced network services computer and use applications, standards and latest technologies and current as PHP and MySQL as well as XML.		
Learning outcomes:			
	Upon completion of this course the student will be able to create web applications with PHP and MySQL connects it to where you can make Select, insert, delete update and data from the base. It will also know to create document using XML, XML transformation using XSLT document.		
Contribution on student load (must correspond with learning outcomes)			
Activity	Hours	Days/week	Total/hours
Lectures	2	15	30
Exercise theoretical/laboratory	2	15	30

Practice work	1	15	15
Contact with lecturer/consultations	1	5	5
Field exercises			
Midterms	1	2	2
Laboratory exercises	1	2	2
Individual time spent studying (at the library or home)	1	15	15
Final preparation for the exam	2	15	30
Time spent in evaluation (tests, quiz, final exam)	5	4	20
Projects, presentations, etc.	1	1	1
Total			150
Notice: 1 ECTS credits = 25 hours commitment, e.g. if the course has 6 ECTS credits student must have 150 hours during the semester.			
Teaching methods:	The course is a combination of lectures, discussions, numerical and laboratory exercises, while the assignments are presented by the laboratory course lecturers!		
Assessment methods:	<ul style="list-style-type: none"> - Homework: 20%. - Attendance: 5%. - Engagement in exercise classes: 5%. - Midterm 1 (project): 40%. - Midterm 2 : 30%. 		
Assessment and grading:	Vlerësimi në %	Nota përfundimtare	
	91% - 100%	10	
	81% - 90%	9	
	71% - 80%	8	
	61% - 70%	7	
	51% - 60%	6	
	0% - 50%	5	
Literature			
Basic literature:	<ol style="list-style-type: none"> 1. Kenneth B. Sall, "XML Family of Specifications: A Practical Guide", Addison-Wesley, 2002. 2. Howard Katz, Don Chamberlin, Denise Draper, Mary Fernandez, Michael Kay, Jonathan Robie, Michael Rys, Jerome Simeon, Jim Tivy and Philip Wadler. XQuery from the Experts: A Guide to the W3C XML Query Language, Addison-Wesley Professional, 2003. 3. Akmal B. Chaudhi, Awais Rashid and Roberto Zicari. XML Data Management: 		

	<p>Native XML and XML-Enabled Database Systems, Addison-Wesley Professional, 2003.</p> <p>4. H.E. Williams and D. Lane. Web Database Applications with PHP and MySQL, 2nd Edition, O'Reilly & Associates, 2004. ISBN 0-596-00543-1.</p>
Additional literature:	<p>1. L. Ullman. PHP for the World Wide Web (Visual QuickStart Guides), 3rd edition, Peachpit Press, 2008. ISBN-10: 0321442490.</p> <p>2. M. Prigmore. An Introduction to Databases with Web Applications, Prentice Hall, 2008. ISBN 978-0-321-26359-9</p>

Study plan	
Week	Lectures
<i>First week:</i>	<ul style="list-style-type: none"> • Syllabus presentation • Introduction to dynamic content of web engineering
<i>Second week:</i>	<ul style="list-style-type: none"> • PHP introduction
<i>Third week:</i>	<ul style="list-style-type: none"> • Conditionals and functions
<i>Fourth week:</i>	<ul style="list-style-type: none"> • Cycles and strings
<i>Fifth week:</i>	<ul style="list-style-type: none"> • Strings
<i>Sixth week:</i>	<ul style="list-style-type: none"> • PHP and MySQL
<i>Seventh week:</i>	<ul style="list-style-type: none"> • Using sessions in PHP
<i>Eighth week:</i>	<ul style="list-style-type: none"> • Writing in the database
<i>Ninth week:</i>	<ul style="list-style-type: none"> • Midterm 1 (Project)
<i>Tenth week:</i>	<ul style="list-style-type: none"> • Documents and markup, Overview of XML, XML syntax, XML Namespaces
<i>Eleventh week:</i>	<ul style="list-style-type: none"> • Well-formed and valid XML • Document Type Definition (DTD)
<i>Twelfth week:</i>	<ul style="list-style-type: none"> • XML Schema
<i>Thirteenth week:</i>	<ul style="list-style-type: none"> • XML Infoset • XPath
<i>Fourteenth week:</i>	<ul style="list-style-type: none"> • XML Stylesheet Language Transformations (XSLT)
<i>Fifteenth week:</i>	<ul style="list-style-type: none"> • Midterm 2

Exercises

Study plan	
Java	Exercises
<i>First week:</i>	<ul style="list-style-type: none"> • Installing the necessary packages for PHP & MySQL
<i>Second week:</i>	<ul style="list-style-type: none"> • Introduction to PHP • PHP Syntax
<i>Third week:</i>	<ul style="list-style-type: none"> • Variables in PHP

	<ul style="list-style-type: none"> • (scope, static variables, php superglobals, comments) • Operators and expressions (arithmetic, assignment, relational, logic) • Strings (string functions)
<i>Fourth week:</i>	<ul style="list-style-type: none"> • Conditional statements in PHP • (if, if...else, if...elseif...else, switch) • PHP File Upload • PHP Cookies • PHP Advanced • PHP Date and Time • PHP Include • PHP File Handling • PHP File Open/Read • PHP File Create/Write
<i>Fifth week:</i>	<ul style="list-style-type: none"> • PHP Functions • (built-in functions, user-defined functions) • PHP Loops and arrays • Loops (while loop, do while loop, for loop, foreach loop) • Arrays (indexed, associative, multidimensional and sorting arrays, array functions)
<i>Sixth week:</i>	<ul style="list-style-type: none"> • PHP & MySQL • MySQL DB • MySQL Connect
<i>Seventh week:</i>	<ul style="list-style-type: none"> • Writing to the database through PHP • MySQL Create DB • MySQL Create Table • MySQL Insert Data • MySQL Select Data • MySQL Delete Data • MySQL Update Data • MySQL Limit Data
<i>Eighth week:</i>	<ul style="list-style-type: none"> • PHP Sessions
<i>Ninth week:</i>	<ul style="list-style-type: none"> • Exercises - Midterm 1
<i>Tenth week:</i>	<ul style="list-style-type: none"> • Introduction to XML • XML Syntax • XML Namespaces
<i>Eleventh week:</i>	<ul style="list-style-type: none"> • XML well-formed and valid • Document Type Definition (DTD) • XML Schema
<i>Twelfth week:</i>	<ul style="list-style-type: none"> • XPath
<i>Thirteenth week:</i>	<ul style="list-style-type: none"> • XML Stylesheet Language Transformations (XSLT)
<i>Fourteenth week:</i>	<ul style="list-style-type: none"> • PHP - XML • PHP XML Parsers

	<ul style="list-style-type: none"> • PHP SimpleXML Parser • PHP SimpleXML - Get • PHP XML Expat • PHP XML DOM
<i>Fifteenth week:</i>	<ul style="list-style-type: none"> • Exercises - Midterm 2

Academic policies and rules of conduct
<ul style="list-style-type: none"> • Generally lecture presentations will be made through MS PowerPoint, tables, material usage, computer programs and numeric exercises. • Additional resources (scientific papers, publications, national bulletins, as well as recent discoveries and research) will be provided by professors. • In the absence of the opportunity for practical work to be organized weekly, in cooperation with the management of the university, this activity will be organized on certain days in: organizations, companies, etc. • During each session will be organized the conversation and co-participation with the students! • Students are required to be regular in lectures and exercises! • It will be evaluated when the students collaborate and participate in the lectures and course exercises! • Timely arrival in lectures and exercises is mandatory!