

LONDON CAPITAL COMPUTER COLLEGE

Diploma in eCommerce & Web Design (901) - XML

Prerequisites: Basic knowledge of computers	Corequisites: A pass or higher in Diploma in			
and file management.	Information Technology or equivalence			
Aim: Programming systems these days are using many different technologies and programming				
languages. XML is a modern effort employed to all	ow communication between all these different			
systems. The course introduces extensible Markup Language (XML) and covers the advantages of				
XML over HTML, the process of switching from HTML to XML specification process and production				
rules, including the most important XML concepts: well-formed and valid XML, DTD, Namespaces, XML DTDs, XSL tools and recourses, XSL style sheets, and the future of XML				
Required Materials: Recommended Learning	Supplementary Materials: Lecture notes and			
Resources.	tutor extra reading recommendations.			
Special Requirements: This is a hands-on course.	hence use of computers is mandatory.			
Intended Learning Outcomes:	Assessment Criteria:			
1 Describe XML and its use. Define the	1.1 Define XML			
history and XML goals	1.2 Describe the use of XML			
, ,	1.3 Describe how to construct an XML			
	document			
	1.4 Describe the advantages of XML			
	1.5 Define the differences between XML			
	and HTML			
2 Define XML documents. Create a	2.1 Describe the components of an XML			
simple XML page	document			
	2.2 Describe XML elements			
	2.3 Describe XML attributes			
	2.4 Describe the structure and syntax of XML			
3 Define XML Document Type Definition	3.1 Describe DTDs			
(DTD)	3.2 Describe DTD entities			
	3.3 Analyse DTD declarations			
	3.4 Define XML character notations			
	3.5 Define internal and extern DTDs			
4 Define XML Schema. Analyse how to	4.1 Describe XML namespaces			
declare namespaces	4.2 Define simple-type elements			
	4.3 Define attribute names for namespace			
	declaration			
	4.4 Describe how to apply namespace to			
	4.5 Describe remember constraints			
	4.5 Describe namespace constraints			
5 Demonstrate working with cascading	5.1 Learn about the history and theory of			
51910 5110015	5.2 Demonstrate linking a style sheet to an			
	XML document			
	5.3 Design a page layout using styles			
6. Demonstrate working with XSLT.	6.1 Learn about the history and theory of XSL			
	6.2 Demonstrate how to create an XSLT style sheet			

		6.3	Demonstrate the syntax of the XPath
			language
		6.4	Be able to transform an XML document into an HTML file
		6.5	Demonstrate creating templates to format sections of the XML document
7	Describe creating computational stylesheets	7.1	Define how to number nodes
		7.2	Apply XPath functions such as count() and sum()
		7.3	Create formulas using mathematical operators
		7.4	Work with text nodes and white space
		7.5	Create variables and parameters
8.	Analyse creating element groups.	8.1	Describe working with step patterns to create complex node sets
		8.2	Identify how to create model templates so that different code can be applied to the same nodes
		8.3	Demonstrate accessing node sets using ID attributes and keys
		8.4	Demonstrate organising elements using Muenchian grouping
		8.5	Demonstrate accessing secondary source documents
9.	Describe the document object model	9.1	Learn about document object models
	·	9.2	Demonstrate how to create and load a document object
		9.3	Describe how to apply an XSLT transformation to a document
		9.4	Describe how to use JavaScript to modify the contents of an XML document
		9.5	Describe how to use a form to e-mail the contents of an XML document
		9.6	Demonstrate using JavaScript to modify the attribute values of a document element
		9.7	Illustrate using JavaScript to pass a value to a style sheet parameter
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Recommended Learning Resources: XML

Text Books	 Beginning XML, 4th Edition (Programmer to Programmer). ISBN-10: 0470114878 New Perspectives on XML, Second Edition, Comprehensive (New Pespectives) (Paperback) by Patrick Carey. ISBN-10: 1418860646 XML for the World Wide Web (Visual QuickStart Guide) by Elizabeth Castro. ISBN-10: 0201710986
Study Manuals	BCE produced study packs
CD ROM	Power-point slides
Software	Internet Explorer and XML