WITH EFFECT FROM THE ACADEMIC YEAR 2008-2009

CS 351

WEB PROGRAMMING & SERVICES

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Instruction	4 Periods per wee	k
Duration of University Examination University Examination Sessional	3 Hours	
	75 Marks	
	25 Marks	

UNIT-I

Web Basics and overview: Introduction to Internet, World Wide Web, Web Browsers, URL, MIME, HTTP, Web Programmer's tool box Introduction to XHTML Cascading Style Sheets

Basics of Java Script

UNIT-II

Java Scripts and HTML Documents DOM Events and Event Handling
Dynamic documentation with Java scripts
Introduction to XML XML document structure, namespaces Schemas XSLT
style sheets XML processors

UNIT-III

J2EE Platform for Web Development servelets and JSPs

Extending and enhancing WEB services with Java servelets, major features of servelets: filters, session management;

Creating dynamic WEB pages with JSPs: elements, directives, actions and scripting;

UNIT-IV

.NET Platform

Introduction to .NET Framework; Common Type System: Types and Objects, Generics;

Common Language Runtime CLR, .NET Languages ASP.NET Constructing WEB Services Advertising WEB Services

Database access thro the WEB JDBC and MYSQL

UNIT-V

Service oriented Architecture and Web Services Fundamentals: common characteristics of contemporary SOA; WEB services and primitive SOA: web service framework – services, modes, service description(WSDL), messaging (SOAP)

Contemporary service oriented Architecture: message exchange patterns, service activity, coordination, atomic transactions, business activities, orchestration, advanced messaging

Suggested Reading:

- 1. Programming the World Wide Web (third edition) Robert W Sebesta Pearson Education, 2007.
- 2. Service Oriented Architecture Concepts, Technology and Design, Thomas Erl - Pearson Education Pub. (chapters 3,5,6 and 7)
- 3. An Introduction to WEB Design + Programming, Paul S Wang Sanda S Katila Thomson Learning 2007 (chapters 12, 3, 6, 8 and 9).
- 4. *J2EE 1.4 A Professional guide*, Aaron E Walsh Wiley 2004 (chapters 1, 2, 3, 5, 6, 9, 10 and 11).
- 5. Professional .NET Framework 2.0, Joe Duffy Wiley India 2007 (chapters 1, 2, 3, 4, 5 and 7).