

19IT2701A– WEB TECHNOLOGIES

Course Category:	Inter disciplinary Elective -II	Credits:	3
Course Type:	Theory	Lecture-Tutorial- Practical:	3-0-0
Prerequisites:	Nil	Continuous Evaluation:	30
		Semester End Evaluation:	70
		Total Marks:	100

Course Outcomes

Upon successful completion of the course, the student will be able to:

CO1	Understand the basic concepts of HTML, CSS, XML, JDBC connectivity, Servlets and JSP	L2
CO2	Use Java script for validation of web pages.	L3
CO3	Analyze the concepts of DOM, JDBC Architecture and life cycles of Servlets and JSP.	L4
CO4	Compare the concepts of HTML and XML, Servlets and JSP.	L4
CO5	Develop simple web applications using JDBC, servlet and JSP.	L6

Contribution of Course Outcomes towards achievement of Program Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1			2		2								2	2
CO2			2		2								2	2
CO3			2		2									
CO4			2		2									
CO5			2	2	2									
Avg.			2	2	2								2	2

1- Low

2-Medium

3-High

Course Content

UNIT-1	INTRODUCTION TO WEB TECHNOLOGIES: History of the web, Overview of HTTP, HTML Introducing HTML document structure, Creating Headings, links, paragraph, images, tables, frames, forms and html controls on a web page	CO1
UNIT-2	INTRODUCING CASCADING STYLE SHEETS: Inline, External, Internal, Style class, Multiple styles, Introducing JavaScript, Using Variables, Using Operators, Working with Control Flow statements, working with functions, Handling Events, Using Arrays, Creating objects in Java Script	CO2
UNIT-3	WORKING WITH XML: Introduction to XML, XML Basics, XML Technologies, Extensible HTML (XHTML), Java API for XML Processing, Document Object Model (DOM)	CO1 CO3
UNIT-4	WORKING WITH DATABASE: Getting started with JDBC, Defining ODBC, Introduction to JDBC, Components of JDBC, JDBC Architecture, Types of Drivers, Working with JDBC APIs, creating a Simple Application, Working with Prepared Statement, Using CallableStatement	CO1 CO3 CO4 CO5
UNIT-5	WORKING WITH SERVLETS: Introducing the MVC architecture, Describing Servlets, Understanding Servlets, what are servlets, introducing the Servlet API, Servlet Life Cycle, Developing First Servlet Application WORKING WITH JSP: Introduction to JSP, Understanding JSP, Describing the JSP Life Cycle, Creating a Simple JSP pages	CO1 CO4 CO5

Learning Resources

Text Books	<ol style="list-style-type: none">1. Web Technologies, Black Book, Kogent Learning Solutions Inc, Dreamtech Press.2. JDBC, Servlets, and JSP, New Edition, Santhosh Kumar K, Kogent Learning Solutions Inc, Dreamtech Press.
Reference Books	<ol style="list-style-type: none">1. Web Technologies ,Uttam K. Roy, Volume 2 , Oxford University2. Core Servlets and Java Server Pages Volume 1 CORE TECHNOLOGIES , Marty Hall and Larry Brown Pearson3. Internet and World Wide Web – How to program ,Dietel and Nieto4. An Introduction to Web Design and Programming –Wang-Thomson5. Professional Java Server Programming S.AllamRaju and othersApres(dreamtech)6. Java Server Programming ,IvanBayross and others,The X Team,SPD7. Beginning Web Programming-Jon Duckett WROX.8. Java Server Pages, Pekowsky, Pearson.
E-Resources & other digital material	<ol style="list-style-type: none">1. http://nptel.ac.in/courses/106105084/132. http://www.w3schools.com/3. https://www.javatpoint.com/html-tutorial