PVP SIDDHARTHA INSTITUTE OF TEHNOLOGY, KANURU, VIJAYAWADA (AUTONOMOUS) INFORMATION TECHNOLOGY

WEB TECHNOLOGIES

Course Code	19IT3602	Year	III	Semester	II
Course Category	PC	Branch	IT	Course Type	Theory
Credits	3	L-T-P	3-0-0	Prerequisites	Java
Continuous Internal		Semester End			
Evaluation :	30	Evaluation:	70	Total Marks:	100

	Blooms Taxonomy Level	
Upon s		
CO1	Apply concepts of HTML,CSS,XML,JDBC connectivity, Servlets and JSP in developing efficient programs	L3
CO2	Analyze Java applications Comprising of Java Beans, Servlets and JSP	L4
CO3	Develop web applications to use Database Connection using JDBC, servlet and JSP application.	L3

	Contribution of Course Outcomes towards achievement of Program Outcomes & Strength of correlations (H:High, M: Medium, L:Low)													
	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								2	2

	Syllabus					
Unit No	Contents	Mapped CO				
Ι	 INTRODUCTION TO WEB TECHNOLOGIES: History of the web, Overview of HTTP, HTML Introduction, HTML Basic, HTML Links, Images, Tables, Lists, HTML Block &Inline, HTML classes, Id, Iframes, HTML forms. CSS: Levels of Style Sheets, Style Specification Formats, Selector Forms, the Box Model. THE BASIC OF JAVASCRIPT: JS Data Types, functions, Objects, Events, Strings, Arrays, Functions, Pattern Matching using Regular Expressions 	CO1,CO 3				
П	 WORKING WITH XML: Introduction to XML, XML Basics, XML Technologies, Extensible HTML (XHTML), Java API for XML Processing, Document Object Model (DOM), Extensible Style Sheet Language Transformation (XSLT). WORKING WITH JAVA BEANS: Introducing Java Beans, Introspection Design Patterns for properties, methods, events, bean API. 	CO1,CO 2				
III	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 Callable Statement.	CO1,CO 3				
IV	 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, Generic Servlet Class. WORKING WITH REQUESTS & RESPONSES: Understanding Request Processing and HTTP Describing the Servlet Request Interface, Working with Initialization Parameters, Describing Request Attributes, request dispatcher interface, Describing HTTP basics, Problem with Servlets. 	CO1,CO 2,CO3				
V	WORKING WITH JSP : Introduction to JSP, Understanding JSP, Describing the JSP Life Cycle, Creating a Simple JSP pages, working with JSP basic tags and implicit objects, working with Java Beans and Action tags in JSP, Working with JSP standard Tag Library (JSTL)	CO1,CO 2,CO3				

Learning Resources

Text books

- 1. Web Technologies, Black Book, Kogent Learning Solutions Inc, Dreamtech Press, 2018.
- 2. JDBC, Servlets, and JSP, New Edition, Santhosh Kumar K, Kogent Learning Solutions Inc, Dreamtech Press, 2018.

References

- 1. Web Technologies ,Uttam K. Roy, Volume 2 , Oxford University, 2010
- 2. An Introduction to Web Design and Programming -Wang-Thomson
- 3. Professional Java Server Programming S.AllamRaju and othersApres(dreamtech)
- 4. Java Server Programming ,Ivan Bayross and others,The X Team,SPD
- 5. Beginning Web Programming-Jon Duckett WROX.
- 6. Java Server Pages, Pekowsky, Pearson.

e-Resources and other Digital Material

- 1. http://nptel.ac.in/courses/106105084/13
- 2. http://www.w3schools.com/
- 3. https://www.javatpoint.com/html-tutorial