

# SREENIVASA INSTITUTE of TECHNOLOGY and MANAGEMENT STUDIES

II MCA - I Semester

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**16MCA214**

**WEB PROGRAMMING**

## Course Objectives

- To Learn Basics of HTML and XML
- To Understand and practice JavaScript, a client side Scripting language
- To Explore Server side Technologies like Servlet and JSP
- To Explore PHP and MySQL Basics

## Syllabus:

### UNIT - I: HTML , XML & JavaScript

HTML- Tables,Basic Text Markup,Images,Lists,Forms,Frames,Introduction to XML –The syntax of XML, XML Document Structure, Document Type Definitions, Introduction to JavaScript, Objects in JavaScripts.

### UNIT - II: Servlets & JSP

Life Cycle of a Servlet - A simple Servlet- The Servlet API - The Javax.Servlet Package - Reading Servlet Parameters - The javax.Servlet.HTTP Package - handling Http Request & Responses - using Cookie - Session Tracking, Java Server Pages – Motivation for JSP, JSP Documents, Scriptlets, Expression Language, JSTL Control Action Elements.

### UNIT - III: Introduction to PHP

History, General Features, PHP Basics, Code embedding web pages, Commenting the code, Output Data to Browser, Datatypes, Identifiers, Variables,Constructors, Expressions, String Interpolation, Arrays.

### UNIT - IV: Object Oriented Concepts in PHP

Object Oriented PHP, Object Cloning, Interfaces, Inheritance, Namespace, Error & Exception Handling, working with files & operating system, Date & Time in PHP.

### UNIT - V: MySQL Basics

An Overview, MySQL Architecture, The MySQL Engine, MySQL Datatypes, MySQL Operators, MySQL Function,Accessing Database in PHP, Updating Database, Creating a new Database, Working with Data, Joins.

### **Course Outcomes:**

- Able to design a Website using HTML and JavaScript
- Able to explore Server Side Technologies like Servlet and JSP
- Able to design front end web page and connect to the back end databases.
- Able to know the basics of PHP and MySQL

### **TEXT BOOKS :**

1. Programming World Wide Web , 7/e, 2002, Sebasta, Pearson, Singapore.
2. Beginning PHP and MySQL from Novice to Professionals, W.Jason GilMore, APress Berkeley, CA, USA.

### **REFERENCE BOOKS :**

1. MySQL- The Complete Reference, Vikram Vaswani, Tata MCGraw Hill, 2004
2. Web Programming, building internet applications, 2/e, 2007, Chris Bates, Wiley, New Delhi.
3. The complete Reference Java, 7/e, 2008, Herbert Schildt, TATA Mcgraw- Hill, New Delhi
4. Java Server Pages, 3/e, 2008, Hans Bergsten, SPD O'Reilly, New Delhi. An Introduction to Web