

**KAKATIYA UNIVERSITY, WARANGAL**  
**FACULTY OF ENGINEERING AND TECHNOLOGY**  
**DEPT OF ECE AND CSE**  
**CERTIFICATE COURSE: WEB PROGRAMMING**

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**Prerequisites:** Any Programming Language, basics of any Relational Databases.

**Course Objective:**

1. To create Dynamic Web Pages.
2. To improve the presentation of web pages.
3. To improve the dynamic functionality of web pages.

**Course Outcomes:**

1. able to design Static & Dynamic web pages
2. Efficiently design attractive webpages using CSS
3. Improve the dynamic nature & apply validation at client side using JavaScript

**PART - I**

**UNIT – I: [10 Hrs.]**

**Introduction to HTML:** HTML - Elements & Attributes, Headings, Font & Colors and other formatting, Images, Links, Tables, Lists, Forms, div etc.,

**UNIT – II: [10 Hrs.]**

**Introduction to CSS:** CSS- Colors, Fonts, Background, Padding, Position, Overflow, etc. CSS Advanced - Text effects, Web Fonts, Transitions and Animations, etc.

**UNIT – III: [10 Hrs.]**

**Introduction to JavaScript:** JavaScript - Variables, Control Flow, String, Array, Objects, Events, JavaScript DOM, Built-in functions, and validations.

**References:**

1. Programming the World Wide Web, Robert W Sebesta, 7ed, Pearson.
2. Web Technologies: HTML, JAVASCRIPT, PHP, JAVA, JSP, ASP.NET, XML and Ajax, Black Book: HTML, Javascript, PHP, Java, Jsp, XML and Ajax, Black Book

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**Course Objective:**

1. Understand basic concepts of how a data organizes in relational databases.
2. Understand how server-side programming works.

**Course Outcomes:**

1. Understand the role of Web Services.
2. Write PHP scripts to handle HTML forms.
3. Efficiently design Relational Database to the data permanently.
4. Analyze and solve various database tasks using the PHP language.
5. Design dynamic web application using PHP Programming.

**PART - II**

**UNIT – 1: [10Hrs.]**

Introduction to XAMPP Server. Installation of XAMPP Server.

**Introduction to MySQL:** MySQL Datatypes, Database Creation, Basic SQL Queries, Grouping, Joins, Advantages of PHP MyAdmin.

**UNIT - II: [10Hrs.]**

**Introduction to PHP:** Declaring variables, data types, arrays, strings, operators, expressions, control structures, functions, Uploading Files, Sessions & Cookies, Reading data from HTML forms.

**UNIT – III: [10Hrs.]**

**PHP & Database Connectivity:** Connecting to MySQL database, executing simple queries, Deploying Web Application on 000Webhost.com

**References:**

1. Head First PHP & MySQL. By Lynn Beighley & Michael Morrison
2. PHP: The Complete Reference by Steven Holzner.