

Syllabus

Unit 1:

HTML

Basics of HTML, formatting and fonts, commenting code, color, hyperlink, lists, tables, images, forms, XHTML, Meta tags, Character entities, frames and frame sets, Browser architecture and Web site structure. Overview and features of HTML5.

CSS

Need for CSS, introduction to CSS, basic syntax and structure, using CSS, type of CSS, background images, colors and properties, manipulating texts, using fonts, borders and boxes, margins, padding lists, positioning using CSS, Introduction to Bootstrap.

Unit 2:

JavaScript: Client-side scripting with JavaScript, variables, functions, conditions, loops and repetition, Pop up boxes.

Advance JavaScript: JavaScript and objects, JavaScript own objects, the DOM and web browser environments, Manipulation using DOM, forms and validations, JSON.

Unit 3:

XML: Introduction to XML, uses of XML, simple XML, XML key components, DTD and Schemas.

Ajax : Introduction to Ajax , XMLHttpRequest Methods and Properties, JavaScript code for Ajax , Implementing Ajax techniques with a server scripting language, Handling the Response, Ajax with JSON

JQuery: jQuery Introduction, Install and Use jQuery Library, jQuery Syntax, Ajax with jQuery, Load method, jQuery get and getJson methods.

Unit 4:

PHP

XAMPP Server Configuration, Introduction and basic syntax of PHP, decision and looping with examples, PHP and HTML, Arrays, Functions, Browser control and detection, string, Form processing, Files. Advance Features: Cookies and Sessions, Basic commands with PHP examples, Connection to server, creating database, selecting a database, listing database, listing table names, creating a table, inserting data, altering tables, queries, deleting database, deleting data and tables.

Unit 5:

MERN

Web Application Deployment, Content Management System (CMS). MERN Stack: MongoDB: Overview, Environment, Data Modelling, Database Operations. Express: Installing ExpressJS, Environment, Routing React: React Intro, React Lifecycle, Building Forms using React, states and components. Node: Install node, simple server, HTML and JSON Response.