

CORE COURSE VIII: 5B08CSC WEB TECHNOLOGY

SEMESTER	COURSE CODE	HOURS PER WEEK	CREDIT	EXAM HRS
5	5B08CSC	4	4	3

COURSE OUTCOME

CO1: Understand different components in web technology and WWW.

CO2: Learn to develop interactive Web pages.

CO3: Present a web document with server-side scripting using PHP.

CO4: Know the basics of AJAX.

Unit I: Introduction

Introduction to Internet and WWW, Evolution of the Internet and World Wide Web, Web Basics, Static Vs Dynamic web pages, Client-Side Scripting versus Server-Side Scripting, World Wide Web Consortium (W3C). Web hosting, Types of web hosting, Hosting Space, Domain Name Registration, Free Hosting, Responsive Web designing.

(12 Hrs)

Unit II: Introduction to HTML

Introduction to HTML, Editing HTML5, W3C HTML5 Validation Service, Headings, Linking, Images, Special Characters and Horizontal Rules, Lists, Tables, Forms, HTML5 Form Input types, input and data list Elements and autocomplete Attribute, Page structure Element.

(18 Hrs)

Unit III: Scripting with JavaScript

Introduction to JavaScript, memory concepts, operators, functions – Introduction, Program Modules in JavaScript, Function Definitions, Notes on Programmer-Defined Functions, scope rules and recursion, arrays – introduction, declaring and allocating arrays, examples using arrays, objects – math, string and date objects, dialog boxes.

(22 Hrs)

Unit IV: PHP and Ajax Enabled Rich Internet Applications

Introduction to PHP, converting between datatypes, operators, initializing and manipulating arrays, string concatenations, Form processing.

Introduction to AJAX, Traditional Web Applications vs. Ajax Applications, Traditional web applications, Ajax applications, Rich Internet Applications (RIAs) with Ajax, History of Ajax.

(20 Hrs)

Books for Study:

1. Internet & World Wide Web How to Program, 5/e – Paul J Deitel, Harvey M Deital, AbbaeyDeital
2. Julie C. Meloni, HTML and CSS in 24 Hours, Sams Teach Yourself (Updated for HTML5 and CSS3), Ninth Edition
3. Programming in PHP, O'Reilly

Books for Reference:

1. Mastering HTML, CSS & Javascript Web Publishing Paperback, 2016 - by Laura Lemay, Rafe Colburn & Jennifer Kyrnin, BPB Publications
2. HTML & CSS: The Complete Reference, Fifth Edition - Thomas a Powell, Tata McGraw Hill
3. JavaScript – Definitive Guide O'Reilly 6th Edition
4. <https://www.w3schools.com>

Marks including choice:

Unit	Marks
I	15
II	15
III	15
IV	15