

**SUBJECT: WEB PAGE DEVELOPMENT (WBDT)****CLASS XII  
SEMESTER - III****THEORY****FULL MARKS – 20****(MCQ Type Question)**

| UNIT | Topic                           | No of periods assigned | Marks |
|------|---------------------------------|------------------------|-------|
| 1    | INTERNET BASICS & WWW           | 14                     | 6     |
| 2    | INTERNET SECURITY               | 14                     | 6     |
| 3    | DEVELOPING WEB PAGES USING HTML | 17                     | 8     |

**DETAIL SYLLABUS**

| UNIT   | Topic / Sub Topic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | No of periods assigned |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| Unit 1 | <b>INTERNET BASICS &amp; WWW</b><br><br><b>1.1 Introduction</b><br>Concept of Internet: Definition, Evaluation, working principle & Applications of Internet, H/W & S/W requirements, Intranet & Internet. Modem & its function, Uses of IP address & Classes, Domain Name System & Subnet Masks.<br><b>1.2 Internet Connectivity</b><br>Working with browser window tool bar, menu bar etc., Browse a given web site address searching a particular topic through search engines, PPP & Shell Account, Communication Medium, ISDN, VSAT, Working of Internet, Connection to Internet, The Internet routing hierarchy.<br><b>1.3 World Wide Web</b><br>Evolution of WWW, Web Architecture, Web Pages: Static, Responsive, Web Servers, Structure and Working Principle, Protocols (Application Layer only). Application-Level Protocols (HTTP/ HTTPS, FTP, TCP/IP), hypertext, hyperlinks, hypermedia. | 14                     |
| Unit 2 | <b>INTERNET SECURITY</b><br><br><b>2.1 Introduction</b><br>Internet Issues, Types of Security, Network Layer Security, E-mail Security, IPsec Protocol, MIME, Message Authentication Code.<br><b>2.2 Authentication &amp; Authorization</b><br>Types of Authentications, Firewalls, Components of Firewalls, Features (idea only), Protection, Limitations of Firewalls.<br><b>2.3 Encryption &amp; Decryption</b><br>Elements of Encryption, Encryption Methods, Symmetric and Asymmetric Encryption, Secure Socket Layer.                                                                                                                                                                                                                                                                                                                                                                            | 14                     |
| Unit 3 | <b>DEVELOPING WEB PAGES USING HTML</b><br><br><b>3.1 Websites &amp; Webpages Classification</b><br>Static Webpages & Static Websites, Dynamic Webpages & Dynamic Websites, Web Portals, Social Networking Sites, Blog. Preliminary idea to Design a Webpage, Gathering Information, Stakeholders, Storyboard, Planning for Navigation tools and lucrative representation.<br><b>3.2 HTML Introduction</b><br>Features of HTML, Document Structure, Different tags and their uses, creating a sample program using basic HTML tags, Executing the HTML file through a browser.<br><b>3.3 HTML Anchor Tag &amp; GUI Components</b>                                                                                                                                                                                                                                                                       | 17                     |

|  |                                                                                                                                                                                                                                                               |           |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
|  | Creating hyperlink to a document, creating a Link within a Webpage, Creating a link with another Website. Special Tags & introduction of GUI components in Webpages: Table, Frames & Forms, Command Button, Text Box, Radio Button, Check Box, Combo Box etc. |           |
|  | <b>Total</b>                                                                                                                                                                                                                                                  | <b>45</b> |

**SUBJECT: WEB PAGE DEVELOPMENT****CLASS XII  
SEMESTER - IV****THEORY****FULL MARKS – 30****(SAQ AND LAQ Type Question)**

| UNIT | Topic                                                       | No of periods assigned | Marks |
|------|-------------------------------------------------------------|------------------------|-------|
| 1    | <b>Web Servers &amp; ACTIVE SERVER PAGES</b>                | 20                     | 10    |
| 2    | <b>Introduction of Server-Side Applications through ASP</b> | 20                     | 10    |
| 3    | <b>DATABASE MANAGEMENT THROUGH ASP (ASP.NET)</b>            | 23                     | 10    |

**DETAIL SYLLABUS**

| UNIT          | Topic / Sub Topic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | No of periods assigned |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| <b>Unit 1</b> | <b>Web Servers &amp; ACTIVE SERVER PAGES</b><br><br><b>1.1 Introduction</b><br>(A) Familiarity with web server –IIS, PWS etc. Working Principle of a Web Server, Installation Method, Server-Side Scripting, Components of Server-Side Scripting: Scripting Files, Database Files, SQL, Scripting method. Difference between Client & Server-Side Scripting.<br><br><b>1.2 Active server pages (Server Side):</b><br>Elements of ASP (scripts, object, components), Requirement to Work on ASP, Structure of an ASP program.                                                                | 20                     |
| <b>Unit 2</b> | <b>Introduction of Server-Side Application Script through ASP</b><br><br><b>2.1 Introduction to ASP Syntax</b><br>Variables. Variable Operations, Mathematical Operators, Conditional Operators, Logical operators, Loop Structure (For.. Next, Steps, While, Until), Conditional Statements IF ..Then..Else., Elseif.., String Function, Date and Time function.<br><b>2.2 ASP Object Model</b><br>Request, Response, Session & Application Object.<br><b>2.3 Use of ASP Components</b><br>Subroutine – Formatting Display, Adding components to script- handing event driven programming. | 20                     |
| <b>Unit 3</b> | <b>DATABASE MANAGEMENT THROUGH ASP (ASP.NET)</b><br><br><b>3.1 Basic Concepts</b><br>Relational database model and its components (tables, columns, rows, primary keys, foreign keys), SQL (Structured Query Language) basics - SELECT, INSERT, UPDATE, DELETE etc., Executing simple SQL statements with select, from, where clause in ASP.<br><br><b>3.2 Data Access Techniques</b><br>ADODB/ADO.NET (Accessing data directly with SQL commands), Entity Framework (Object-Relational Mapping - mapping database tables to .NET classes)                                                  | 23                     |
|               | <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>63</b>              |

## **SUBJECT: WEB PAGE DEVELOPMENT**

### **PRACTICAL CLASS XII**

#### **FULL MARKS – 40**

#### **NO OF PERIODS ASSIGNED – 108**

#### **DETAIL SYLLABUS**

##### **Unit 1: Working with Browser with following details**

**(18 Classes)**

Create E-mail id in different browsers. Sending viewing and printing e-mail message.

Use of mailbox (inbox, outbox) in outlook express.

Use of attachment facility available in e-mailing. Working with various internet services (www, http and ftp).

##### **Unit 2: Working with HTML**

**(35 Classes)**

Create a static webpage using simple related tags like body with background color, picture etc. Align, font, BR etc.

Embed An image within the page using src, height, width, border, align, all etc.

Implement hyperlink between two html pages. Implement a table with size 4\*4 on a page and insert some textual as well as numeric data in cells using proper tags for alignment.

Create HTML list (ordered and unordered) and tables

Create HTML forms using Command Button, Text Box, Radio Button, Check Box, Combo Box etc.

##### **Unit 3: Server-Side Application Script through ASP**

**(53 Classes)**

Web Server

- Working with web server- IIS, PWS etc.
- Configuring web server – creating virtual directory

Generate dynamically web page using scripting language.

- Create database and connectivity or ODBC.
- Design Login Form with validation

Working with SQL statements with select, from and where clause for executing simple queries in ASP

- Create database and connectivity or ODBC.
- Design Login Form with validation

**SUBJECT: WEB PAGE DEVELOPMENT**

**PROJECT  
CLASS XII**

**FULL MARKS – 10**

**NO OF PERIODS ASSIGNED – 36**

**DETAIL SYLLABUS**

**Design the following Projects using ASP/ MySQL**

**(12 Classes Each)**

**Project 1:** Create a Web Page for the following:

XYZ COMPUTER TRAINING CENTER

CENTER (Horizontally scroll) & the FOLLOWING Course Details will Blink.

- Computer In Certificate Basic
- Diploma In Computer Application
- Diploma In Financial Accounting
- Diploma In Office Application

**Project 2:** Design Login Form with validation on mailid with valid symbol & Date of Birth which will not less than 15 years.

**Project 3:** Create a short project regarding the maintenance of Login page.  
Detect an existing user, display invalid user\_id and/or password.  
Create a new user, update information of an existing use etc.