

SUBJECT: WEB PAGE DEVELOPMENT**CLASS XII
SEMESTER - III****THEORY****FULL MARKS – 30****(MCQ Type Question)**

UNIT	Topic	No of periods assigned	Marks
1	INTERNET BASICS & WWW	14	9
2	INTERNET SECURITY	14	9
3	DEVELOPING WEB PAGES USING HTML	17	12

DETAIL SYLLABUS

UNIT	Topic / Sub Topic	No of periods assigned
Unit 1	INTERNET BASICS & WWW 1.1 Introduction 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. 1.2 Internet Connectivity 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. 1.3 World Wide Web 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	INTERNET SECURITY 2.1 Introduction Internet Issues, Types of Security, Network Layer Security, E-mail Security, IPsec Protocol, MIME, Message Authentication Code. 2.2 Authentication & Authorization Types of Authentications, Firewalls, Components of Firewalls, Features (idea only), Protection, Limitations of Firewalls. 2.3 Encryption & Decryption Elements of Encryption, Encryption Methods, Symmetric and Asymmetric Encryption, Secure Socket Layer.	14
Unit 3	DEVELOPING WEB PAGES USING HTML 3.1 Websites & Webpages Classification 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. 3.2 HTML Introduction 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. 3.3 HTML Anchor Tag & GUI Components	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.	
	Total	45

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	Web Servers & ACTIVE SERVER PAGES	20	10
2	Introduction of Server-Side Applications through ASP	20	10
3	DATABASE MANAGEMENT THROUGH ASP (ASP.NET)	23	10

DETAIL SYLLABUS

UNIT	Topic / Sub Topic	No of periods assigned
Unit 1	Web Servers & ACTIVE SERVER PAGES 1.1 Introduction (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. 1.2 Active server pages (Server Side): Elements of ASP (scripts, object, components), Requirement to Work on ASP, Structure of an ASP program.	20
Unit 2	Introduction of Server-Side Application Script through ASP 2.1 Introduction to ASP Syntax 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. 2.2 ASP Object Model Request, Response, Session & Application Object. 2.3 Use of ASP Components Subroutine – Formatting Display, Adding components to script- handing event driven programming.	20
Unit 3	DATABASE MANAGEMENT THROUGH ASP (ASP.NET) 3.1 Basic Concepts 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. 3.2 Data Access Techniques ADODB/ADO.NET (Accessing data directly with SQL commands), Entity Framework (Object-Relational Mapping - mapping database tables to .NET classes)	23
	Total	63

SUBJECT: WEB PAGE DEVELOPMENT

PRACTICAL CLASS XII

FULL MARKS – 50

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 – 20

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.