

## Th-2 INTERNET AND WEB TECHNOLOGY

(Common to CSE/IT)

<b>Theory</b>	<b>4 Periods per week</b>	<b>Internal Assessment</b>	<b>20 Marks</b>
<b>Total Periods</b>	<b>60 Periods</b>	<b>End Sem Exam</b>	<b>80 Marks</b>
<b>Examination</b>	<b>3hours</b>	<b>Total Marks</b>	<b>100Marks</b>

### A. Topic wise distribution of periods

Sl. No.	Topics	Periods
1	Internet Basics	6
2	Internet Connectivity & WWW	9
3	Internet Security	6
4	Internet Application	6
5	Website Classifications	3
6	Development of Portals Using HTML	9
7	Client side Scripting with JavaScript	6
8	Server Side Scripting	5
9	Server Side Programming using PHP	10
	<b>TOTAL</b>	<b>60</b>

**B. RATIONALE :** Now a days the usage of internet has become very essential in various areas like education, entertainment, business, sports etc. This subject will expose the learner to have an idea about the applications and services of Internet. Further the learner will be able to plan and design a website to achieve the goal.

**C. Objective:** After completion of this course the student will be able to:

- Understand the concept of Internet and its wide application in various areas.
- Understand different internet connectivity and ISP.
- Understand the Internet security and Applications
- Know the methods of development of Portals using HTML
- Know the Client side Scripting using JavaScript
- Know the server side Scripting using PHP
- Know the what is ASP and what can it do

### D. DETAIL CONTENTS:

#### 1.0 Internet Basics

1.1 Computer network

1.2 Concept of Internet, Intranet, Modem

1.3. IP Address, Internet Domains, CIDR Notation, ISP, TCP/IP

#### 2.0 Internet Connectivity & WWW

2.1 Introduction of connectivity

2.2 Medium and methods of connectivity, ISDN, VSAT, RF Link

2.3 Working of Internet

2.4 Introduction to WWW, Application Level Protocol

2.5 Web Browser, URL, Hyper text, Hyperlinks, Hypermedia,

2.6 Search Engine, Proxy sever, CGI, URI, Dreamweaver

#### 3.0 Internet Security

3.1 Introduction to security

3.2 Types of security, Authentication & Authorization

### 3.3 Firewalls, Encryption & Decryption, SSL

#### **4.0 Internet Application**

- 4.1 E-Mail, Email protocols
- 4.2 Telnet
- 4.3 FTP
- 4.4 Newsgroup
- 4.5 Chatroom
- 4.6 Internet Relay Chat
- 4.7 Video Conferencing
- 4.8 E-Commerce

#### **5.0 Website Classifications**

- 5.1 Static Websites
- 5.2 Dynamic websites
- 5.3 Web portals
- 5.4 Social Networking Sites
- 5.5 RSS Feed, Blog, Netiquette

#### **6.0 Development of Portals Using HTML**

- 6.1 Design a webpage, Good Web Design
- 6.2 HTML Introduction
- 6.3 HTML Tags, Anchor Tag, Table Tag
- 6.4 HTML Frames, Forms
- 6.5 Disadvantages of HTML
- 6.6 Separating style from structure with style sheets
- 6.7 CSS Rules, Types of CSS

#### **7.0 Client side Scripting with JavaScript**

- 7.1 Introduction to script, Client side Scripting, Types of Scripting
- 7.2 Variables in JavaScript, Built-in Function
- 7.3 Arrays in JavaScript, Conditional statements, Loops
- 7.4 Document Object Model
- 7.5 Creating Functions, objects in JavaScript
- 7.6 Event handling in JavaScript
- 7.7 Embedding JavaScript with HTML
- 7.8 Working with Cookies
- 7.9 Connecting database using JavaScript in HTML Page
- 7.10 Working with Browser, validating and submitting Forms

#### **8.0 Server Side Scripting**

- 8.1 Introduction to server side Scripting
- 8.2 Components of SSS
- 8.3 Difference between CSS and SSS
- 8.4 Server side Scripting method
- 8.5 JavaScript on server
- 8.6 SQL

#### **9.0 Server Side Programming using PHP**

- 9.1 Introduction to PHP
- 9.2 Variables, string, operator types
- 9.3 Conditional statement, Loops
- 9.4 Array
- 9.5 GET and POST Method and Sessions

**Coverage of Syllabus upto Internal Exams (I.A.)**  
**Chapter 1,2,3,4**

**Books Recommended:-**

<b>SI.No</b>	<b>Name of Authors</b>	<b>Title of the Book</b>	<b>Name of the Publisher</b>
01	Neha Dutta, Adesh Pandey	Internet and Web Designing	Katson Books
02	Sisodia	Internet & Web page Design	BPB Publication
03	U.K Roy	Web Technologies	Oxford Univ.Press