



**CENTRE FOR DEVELOPMENT OF IMAGING TECHNOLOGY  
TECHNOLOGY EXTENSION DIVISION**

**SYLLABUS**

**CERTIFICATE IN WEB DESIGNING (CWD)**

**Duration: 3 Months**

**Eligibility: SSLC or Equivalent**

**SCHEME OF STUDY**

CWD 101	<a href="http://www.cdit.org">Fundamentals of Web Programming</a>
CWD 102	<a href="http://www.cdit.org">Internet and Web Technologies</a>
CWD 103	Lab I- Web Technologies

# PAPER I - FUNDAMENTALS OF WEB PROGRAMMING

## **Module - I (10 Hrs )**

**HTML**— Concepts of Hypertext, Versions of HTML— Elements of HTML syntax, Head & Body Sections —Building HTML documents —Inserting texts, Images, Hyperlinks, Backgrounds and Color controls, Different HTML tags, Table layout and presentation, Use of font size & Attributes, List types and its tags, Use of Frames and Forms in web pages.

**DHTML** — Introduction — Cascading Style sheets — Font Attributes ,color and Background Attributes ,List Attributes — Text Attributes, Border, Attributes, Margin Related Attributes — External Style Sheets

## **Module - II (10 Hrs )**

### **Web Content Preparation**

Creating a web site and the markup language— art of creating a website, hyper text and HTML — HTML document features — document structuring tags in HTML — special tags in HTML — Dynamic HTML — XML for a universal format for data on the web — Microsoft front page — Searching and Web – Casting Techniques

### **Overview of Macromedia Dream Weaver**

## **Module - III (10 Hrs )**

**JavaScript** — Introduction — Embedding JavaScript into an HTML Document — Variables — Literals — Arrays — Operators — Using JavaScript Objects — Functions — If/Then Statements — Loops — Commenting.

## **Module - IV (10 Hrs )**

**CGI** — Introduction — CGI positioning — Languages for CGI — applications

**Server Environment** — Browser-server communications — UNIX vs NT — Server configuration — Environment variables — Errors

**Authoring Scripts** — Language features — Script components — Communication between forms and scripts

**Using Prewritten Scripts** — Installation — Troubleshooting — Customization

**Advanced Topics** — Cookies — Security — Databases — Alternatives and enhancements to CGI

## **Module - V (10 Hrs ) PHP for Beginners**

PHP — Introduction — The Basics — Basic Syntax — Code Syntax

Your First Script — Error Messages — Statements — Variables

HTML Forms and PHP — Get versus Post

Arrays — Associative Arrays — Operators: If, Else, Elseif Loops— Comparison and Logical Operators : Comparison Operators, Logical Operators and Arithmetic Operators.

Loops — Functions.

**CASE STUDY : Apache Web Server**

# PAPER II - INTERNET AND WEB TECHNOLOGIES

## **Module – I ( 10 Hrs )**

Introduction to Internet – URL – HTTP – FTP – Telnet

Web server – Proxy Server – Fast Ready Connections – Web Browsers – Netscape Communication Suite – Internet Explorer – Firewalls – Data Security.

Search Engines – Search Tools – Get Found or Hidden Data – Subscribing – Channels – Channels Push Technology. – IT and society – Keyboard tutor – Unicode concepts and fonts in Content Creation – Local language content development.

News Groups and Relay chat.

Trends in Internet.— Web TV – Internet Telephone – Network Computer – Internet – E-commerce – E-Publishing.

Internet and Society.— Commercial – Political – Linguistic – Changing life styles – Moral Values – Browsing the Educational and Informative sites.

Viruses, Types of viruses –Detection and Prevention – Anti virus software

## **Module – II ( 10 Hrs )**

### **INTRANET**

Introduction to Intranet –Benefits – Breaking Down the Barriers – The Traditional Hierarchical Information Distribution Model – The New Intranet – Based Information Distribution Model – The Power of a Knowledgeable Team – Threat of an Intranet culture – Relationship marketing and getting the customers involved – What you need to establish a functional Intranet – Understanding your Long – And Short-Term CHALLENGES – Security Issues – Employee training increases security.

EXTRANET – How an Extranet fits into your overall strategy – How to plan, implement, operate and manage your extranet – How to secure your extranet.

## **Module – III ( 10 Hrs )**

Windows DNS Server – Windows 2000 DNS – DNS MMC – Create Standard Zone – - Create Secondary Zone

DNS Clients – Resolver Configuration – Windows 2K Configuration – Linux Configuration – DNS Tools – DNS Troubleshooting – nslookup Tool – dig Utility

## **Module – IV ( 10 Hrs )**

Interactivity – Client Server Model – Static and Dynamic Web Pages – Creating Forms – CGI – PERL Basics – Variables – Pattern matching and Decision making – - Forms – Arrays and Loops – Working with Form data – Building an Email Auto responder – Building a searchable database – Building a bulletin board – Working with cookies – Role of Databases in Web Applications

## **Module – V ( 10 Hrs )**

PHP – Introduction – Uses – Speed Optimization – Security – Syntax – Data types – Functions – Objects – Resources

IIS – World Wide Web – IIS Overview – IIS 4.0 – IIS Management – IIS Default Web sites – IIS over the Web – Create a Web site