

**GOVERNMENT POLYTECHNIC, NAGPUR**  
(An Autonomous Institute of Government of Maharashtra)  
(CURRICULUM DEVELOPMENT CELL)

## **CURRICULUM**

**PROGRAMME** : DIPLOMA IN INFORMATION TECHNOLOGY  
**COURSE CODE** : IT6603  
**NAME OF COURSE** : WEB PAGE DEVELOPMENT  
**NAME OF LEVEL** : APPLIED TECHNOLOGY COURSES  
**TOTAL CREDITS : 06**                      **THEORY :02**                      **PRACTICAL : 04**  
**EXAMINATION SCHEME :**

MARKS	THEORY			PRACTICAL			TOTAL
	TERM EXAM	PROGRESSIVE TEST	TOTAL	PRACT - EXAM	TERM WORK	ORAL EXAM	
MAX	75	25	100	25	25	--	150
MIN	30	---	40	10	10	--	60

**PREREQUISITE COURSE / COURSES TO BE COMPLETED** : IT6101  
**TIME ALLOTTED FOR TERM EXAM** : 3 HRS.  
**TIME ALLOTTED FOR PROGRESSIVE TEST** : 1 HR.

- **RATIONALE :-**

Web Page development and Multimedia Applications is an essential requirement of today IT industry. Students will get acquainted with the current developments in web and Multimedia, which would be helpful in IT applications.

- **SKILLS :-**

1. Understand HTML.
2. Develop web sites using HTML.
3. Design dynamic pages using CSS.
4. Understand principles of Java Script

- **OBJECTIVES :-**

Students will be able to :-

- 1 Understand HTML
2. Develop web sites using HTML.
3. Understand principles of Java Script.

- PROVISION OF LEARNING EXPERIENCES:

## A THEORY

### 1. INTRODUCTION TO WEP PAGE. (H-02,M-05)

Web page and web design, web publishing, process of web publishing-planning, organizing, implementation, testing, maintenance. Browsers: internet explorer and Netscape navigator.

### 2. INTRODUCTION TO HTML (H-08,M-14)

Components of HTML-Tags, Elements, Attributes, closed and open tags. Structured tags-<HTML>,<HEAD>, <TITLE>,<BODY> elements. Block level tags – Block formatting, Heading,paragraph,comments,breaks,center,divisions,performatted,text alignment and font size. Text level tags – Bold, italic, moonscape, underline, strike through, superscript, subscript. Horizontal rules- colours in wep page –Background colour, text colour, link colour. Special characters: list-ordered lists, unordered list , definition list, nesting list. Meta tag.

### 3. LINKING HTML DOCUMENTS: (H-03,M-08)

URLs, types of URLs-absolute and relative URLs. Linking HTML documents-anchor tag, linking to documents in same folder, linking to documents in different folder , linking to documents on the web, linking to specific location with in document. Inserting E-mail link.

### 4. INCLUDING IMAGES. (H-04,M-08)

Image formats, Effect of physical size and file of image on downloading, The inline image-alignment. alternative, height & width, HSPACE & VSPACE, wrapping text. Image as a link, Image maps.

### 5. TABLES , FORMS AND FRAMES: (H-07,M-18)

Creating basic tables, tags-<table>,<tr> ,<td>, <th>. Editing of rows and columns of tables, adding caption, formatting tables using attributes border, border colour, background, align, width, no wrap, cell spacing, cell height. Creating forms, form controls, rest and submit buttons, <TEXTAREA>, <SELECT> AND <OPTION> tags. Introduction to frames, advantages and disadvantages of using frames, creating basic frames, frame targeting.

### 6. STYLE SHEETS. (H-04,M-10)

Adding style to documents, linking to a style sheet. Embedding style sheet, using inline style, style sheet properties, font properties, color and background properties, text properties, box properties.

### 7. CLIENT SIDE SCRIPTING (H-04,M-12)

Introduction to javascript, Object and Events : event handler, mouse events and keyboard events. Validation of forms using JavaScript ,image mapping, dynamic images, rollovers.Introduction to XML.

- Mode of continuous assessment of Theory ----- progressive test/ Assignment / Viva

#### **A) LABORATORY /FIELD EXPERIENCES**

- **List of Laboratory / Field experiences**

1. Study of Basic requirement for Creating Web Page.
2. Web page design with HTML using basic tags.
3. Linking documents of web pages.
4. Creating tables in HTML
5. Creating forms in HTML
6. Creating Frames in HTML
7. Design web page using CSS.
8. Inserting Multimedia in web pages using techniques available.
9. Use of JavaScript animation in HTML
10. Using GIF & JPEG formats for Graphics.
11. Use of Animation techniques in web page.
12. Use of XML in web page.

- Assessment of laboratory / field experience- viva /term work

- **INSTRUCTIONAL STRATEGIES TO BE ADOPTED**

- Lecture method
- Improved Lecture Method
- Question – Answer Technique

- **LEARNING RESOURCES TO BE USED.**

- **PRINT --- Test Books / Reference / Lab Books manuals / Handouts / Laboratory Sheets / Charts etc.**
- **NON PRINT --- Transparencies Models / Slides/ Film strips etc.**

#### **REFERENCES :-**

1. Inline online fundamentals of the internet and world wide web by green law
2. World wide web designing with HTML by C xavir
3. Teach yourself HTML in 24 Hours. TechMedia
4. Teach yourself JAVA Script in 24 Hours. TechMedia
5. Web design the complete Ref by powell.