GUJARAT TECHNOLOGICAL UNIVERSITY, AHMEDABAD, GUJARAT
COURSE CURRICULUM

Course Title: Static Web Page Designing
(Course Code: 3320703)

Diploma Programmes in which this course is offered	Semester in which offered
Computer Engineering, Information Technology	Second Semester

1. RATIONALE

Today various technologies are available for developing web-based applications. These technologies can be equally used for developing both web based educational and business applications. These technologies are required for developing online educational applications such as organizational websites, educational website, virtual learning environments etc. and business applications in various fields such as products sale, banking, railways reservation, services etc. Therefore it is important that the students of polytechnics develop competency to use Hyper Text Markup Language (HTML) technologies for developing professional static web environment. This course would be the basis for developing dynamic web pages which will be taught in latter semesters.

2. COMPETENCY

The course content should be taught and implemented with the aim to develop different types of skills so that students are able to acquire following competency:

- **Develop and host a static website using Hyper Text Markup Language with web technology features like Cascading Style Sheets etc.**

3. TEACHING AND EXAMINATION SCHEME

Teaching Scheme (In Hours)			Total Credits (L+T+P)	Examination Scheme				
				Theory Marks		Practical Marks		Total Marks
L	T	P	C	ESE	PA	ESE	PA	100
0	0	4	4	00	00	40	60	

Legends: L-Lecture; **T** – Tutorial/Teacher Guided Student Activity; **P** - Practical; **C** – Credit;; **ESE** - End Semester Examination; **PA** - Progressive Assessment.

Note: It is the responsibility of the institute heads that marks for **PA of theory** & **ESE and PA of practical** for each student are entered online into the GTU Portal at the end of each semester within the dates specified by GTU.

4. DETAILED COURSE CONTENTS

Unit	Major Learning Outcomes	Topics and Sub-topics
Unit – I **Web Site development Essentials**	1a.Understand website basics and overall website development, usability and accessibility features	1.1 Overview of Web Design Concepts 1.2 Web Development Teams 1.3 Web Project Management Fundamentals 1.4 Web Site Development Process 1.5 Web Page Layout and Elements 1.6 Web Site Usability and Accessibility 1.7 Configure Browsers Setting 1.8 Navigation Concepts 1.9 Web Graphics 1.10 Multimedia and the Web
Unit– II **Hyper Text Markup Language (HTML)**	2a.Design a static website using various HTML features	2.1 HTML and the Evolution of Markup languages 2.2 Create Hyperlinks 2.3 Create Tables 2.4 Create Web Forms 2.5 Image Inserting Techniques 2.6 Create Frames 2.7 GUI HTML Editors 2.8 Site Content and Metadata
Unit– III **Dreamweaver Basics**	3a.Develop static website using a development tools	3.1 Features of Dreamweaver Interface 3.2 Setting Up a Site with Dreamweaver 3.3 FTP - Site Upload Feature of Dreamweaver 3.4 Create various types of Links 3.5 Insert multimedia including text, image, animation & video
Unit– IV **Cascading Style Sheets**	4a.Design a uniform formatted website by implementing CSS	4.1 Cascading Style Sheets for Web page design 4.2 Creating CSS rules in Dreamweaver 4.3 Format Text with CSS 4.4 Use of CSS Selectors 4.5 Embed Style Sheets 4.6 Attach External Style Sheets
Unit– V **Using CSS with Tables**	5a.Design a website by implementing CSS with tables	5.1 Insert and Styling Tables 5.2 Import Table Data 5.3 Style Tables with CSS 5.4 Sort Data in Tables

5. SUGGESTED SPECIFICATION TABLE WITH HOURS & MARKS (THEORY)

Unit No.	Unit Title	Teaching Hours	Distribution of Theory Marks (Duration – …..Hours)			
			R Level	U Level	A Level	Total
1	**Unit – I** Web Site development Essentials	NOT APPLICABLE				
2	**Unit– II** Hyper Text Markup Language (HTML)					
3	**Unit– III** Dreamweaver Basics					
4	**Unit– IV** Cascading Style Sheets					
5	**Unit– V** Using CSS with Tables					
	Total					

Legends: R = Remember; U = Understand; A = Apply and above levels (Bloom's revised taxonomy)

6. SUGGESTED LIST OF EXPERIMENTS

The experiments should be properly designed and implemented with an attempt to develop different types of skills leading to the achievement of various competencies.

Unit No.	Experiment	Approx. Hrs. Required
1	Analyze 5 website on terms of usability and accessibility terms	04
2	Develop basic HTML pages with Tables and Hyperlinks.	06
2	Develop HTML pages with Frames	06
3	Explain various features of Dreamweaver interface.	06
3	Setup basic sites with Dreamweaver.	06
4	Develop various pages using Cascading Style Sheets to Style Your Page.	08
4	Develop various pages using CSS Selectors and embedded Style sheets.	08
5	Styling Tables with help of CSS.	08
5	Host the designed website on any web server	04
	TOTAL	**56**

7. SUGGESTED LIST OF PROPOSED STUDENT ACTIVITIES

Following is the list of proposed student activities:

Identify various aspects of Web development by analyzing various sites online. Prepare a website using various templates available.

8. SUGGESTED LEARNING RESOURCES

A. List of Books

S.No.	Author	Title of Books	Publication
1	Duckett, Jon	Beginning Web Programming with HTML, XHTML, and CSS	Wrox,2008
2	Powell, Thomas A.	HTML & XHTML: The Complete Reference	Mc GrawHill,2003
3	Shupe, Rich	Learning Flash CS4 Professional	Oreilly,2009
4	Bruce, Betsy	Sams Teach Yourself Macromedia Dreamweaver 4 in 24 Hours	SAMS

B. List of Major Equipment

Computer System with latest configuration & Dreamweaver software

C. List of Software/Learning Websites

- Adobe Dreamweaver: Website: http://www.adobe.com/devnet/dreamweaver.html
- Learn HTML/CSS Website: http://www.w3schools.com/html/default.asp
- Learn HTML/CSS Website: http://www.html.net/

9. COURSE CURRICULUM DEVELOPMENT COMMITTEE

Faculty Member from Polytechnics

1. **Prof.K. N. Raval** Head Computer Engg. Dept. RCTI , Ahmedabad
2. **Prof.S. D. Shah** Lect. Computer Engg. Dept.RCTI, Ahmedabad
3. **Prof.R.K.Vaghela** Lect. Computer Engg. Dept. RCTI, Ahmedabad

Coordinatgor and Faculty Members from NITTTR, Bhopal

1. **Dr. Shailendra Singh**, Professor, Dept. of Computer Engineering & Application
2. **Dr. Mathai K. James** , Associate Professor, Dept. of Computer Engineering & Application