HEMCHANDRACHARYA NORTH GUJARAT UNIVERSITY, PATAN
Faculty of Arts

B. A. Semester – II [Computer]

Sub. Code	Subject Name	Teaching Scheme (Per week)		Teaching Scheme (Per semester)		Examination Scheme					
						INT		EXT		TOTAL	
		Th. (hours)	Pr. (hours)	Total Hours	Credit	Th. (marks)	Pr. (marks)	Th. (marks)	Pr. (marks)	Th. (marks)	Pr. (marks)
Paper-III	Computer Networks and Web Designing	4	--	40	4	30	--	70	--	100	--
Paper-IV	Practical Based On Computer Networks and Web Designing	--	4	40	4	--	30	--	70	--	100

HEMCHANDRACHARYA NORTH GUJARAT UNIVERSITY, PATAN
B.A. Semester – II [Computer]
Paper-III : Computer Networks and Web Designing

Teaching Scheme (Per week)		Teaching Scheme (Per semester)		Examination Scheme					
				INT		EXT		TOTAL	
Th. (hours)	Pr. (hours)	Total Hours	Credit	Th. (marks)	Pr. (marks)	Th. (marks)	Pr. (marks)	Th. (marks)	Pr. (marks)
4	--	40	4	30	--	70	--	100	--

Unit – 1   [18 Marks]
Basic of Computer Networks:
Introduction to Computer Networks, Advantages and Disadvantages of Computer Networks.

Types of Networks : LAN, MAN, WAN, Wireless.
Network Topologies : Star, Ring, Bus, Tree, Complete, Irregular, Mesh.
Transmission Media: Introduction to Transmission Media – **Guided Transmission Media** (Magnetic Media, Twisted Pair, Co-axial Cable, Fiber Optics), **Unguided Transmission Media** (Radio Transmission, Microwave Transmission, Infrared).

Unit – 2   [17 Marks]
Concepts of Internet :
An Introduction to the Internet, Advantages and Disadvantages of Internet, Web Browsers, Web Servers, URL (Uniform Resource Locator), WWW(World Wide Web), HTTP, ISP (Internet Service Provider), Intranet, Extranet, VPN (Virtual Private Network), Search Engines, E-Mail (Electronic Mail), Chat, Video Conferencing, E-Commerce, E-Banking.

Unit – 3   [18 Marks]
Basics of HTML:
What is Internet Language?, Understanding HTML, Create a Web page,Linking to other Web Pages, Publishing HTML Pages, Text Alignment and Lists, Text Formatting Fonts Control, Email Links and link within a Page, Creating a Table, Creating HTML Forms, Creating Web Page Graphics, Putting Graphics on a Web Page, Custom Backgrounds and Colors, Creating Animated Graphics.

Unit – 4   [17 Marks]
Introduction to CSS:
Cascading Style Sheets (CSS): Basic Concepts, Defining Style with HTML Tags, Style Properties, Creating Style Sheets; Common Tasks with CSS: Text, Fonts, Margins, Links, Tables, Colors; Marquee; Mouseovers; Filters and Transitions; Adding Links; Adding Tables; Adding Forms; Adding Image and Sound; Use of CSS in HTML Documents Linking and Embedding of CSS in HTML Document., Features of Style Sheet,Style Classes, External Style Sheet.

Reference Books:

Unit 1 & 2
1. Computer Networks, A.S. Tanebaum, PHI Publication.
2. Data Communications and networking, Behrous A Forouzan,THM Publication
3. O' level IT(Made Simple Information technology, By V.K Jain & Satish Jain
4. Internet and Web Design Based on DOEACC III Revised syllabus 'O' Level (Mac Millan India Ltd)
5. Internet & Web Designing , Rajesh G Maheta, Ronak Patel, Rajesh Patel, Shyam Chavda, Nirav Prakashan 1st Edition.
6. Internet & web Desigring or S.M.Shah, Dr. L.M. Chavda, Bhadresh Patel (Bharat Publication)

Unit 3 & 4
7. Sams Teach Yourself HTML 4 in 24 Hours By Dick Oliver (Tech media) 4th edition.
8. 10 minutes Guide to HTML Style Sheets By Craig Zacker (PHI)
9. HTML and CSS, Dick Oliver and Michael Morrison (Pearson Education) 7th edition
10. CSS , Kynn Bartlett(Pearson Education) 2nd Edition
11. Introduction to Internet & HTML Scripting, Bhaumik Shroff, Books India Publication 3rd Edition.

Question Paper Scheme:

University Examination Duration: 3 Hours.

    Q.1 - Unit-I   (18 Marks)
       A. Objective/ Short Questions.
       B. Descriptive/ Long questions.
    Q.2 - Unit-II   (17 Marks)
       A. Objective/ Short Questions.
       B. Descriptive/ Long questions.
    Q.3 - Unit-III   (18 Marks)
       A. Objective/ Short Questions.
       B. Descriptive/ Long questions.
    Q.4 - Unit-IV   (17 Marks)
       A. Objective/ Short Questions.
       B. Descriptive/ Long questions.

Note: All Objective/ Short Questions are compulsory, no option will be given.

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B.A. Semester – II [Computer]

Paper-IV : Practical Based On Computer Networks and Web Designing

Teaching Scheme (Per week)		Teaching Scheme (Per semester)		Examination Scheme					
				INT		EXT		TOTAL	
Th. (hours)	Pr. (hours)	Total Hours	Credit	Th. (marks)	Pr. (marks)	Th. (marks)	Pr. (marks)	Th. (marks)	Pr. (marks)
--	4	40	4	--	30	--	70	--	100

University Examination Duration: 3 Hours (Per Batch)

(Practical List)

Internet

1. Write a Step to create new Internet Connection
2. Write a Step to create new Email Account

HTML

1. Develop an HTML document for a web page of your favorite teacher. Design the page with an attractive background color, text color and background image.
2. Develop an HTML document for a web page of your favorite National Leader. Design the page with an attractive color combination, with suitable headings and horizontal rules.
3. Write an HTML document with an example of Ordered List and Unordered List.
4. Write an HTML document with an example of Table format to print your Bio-Data.
5. Write an HTML document with an example of Table format to print your Telephone Bill.
6. Write the Frameset tags and Frame tags for the following frameset.

Physics.html	Welcome.html	Account.html
Maths.html		Heading.html
Chemistry.html	Computer.html	
Biology.html		Zoology.html

7. Develop a complete web page using Frames and Frameset, which gives the Information about Hospital.

8. Write an HTML code for designing the subscription form of mail account in the e-mail website with appropriate fields.

9. Create an HTML document of giving details of your name, age, telephone no, address and enrolment no. and aligned in proper order.

10. Design page that has 5 equal columns the table should look the same in all screen resolution.
    Solution
```
<table border cellspacing = 3 border color "#00000">
<TR> <td width ="20 %">
<p>Column1</td>
<p>Column1</td>
<td width="20 %">
<p>Column1</td>
</TR>
</table>
<p></p></body></html>
```
11. Develop your academic time table in HTML using <table> Tag and use class to change the background of different allows of your time table.
12. Calculate a web page that provides links to five different web pages or to entirely different Websites.
13. Create a HTML document with following criteria.
    a. Create your Home Page with links to various other pages (e.g Table of Content, Feedback Form, Hobbies, Achievement, Photo Gallery). Name the first page as default.htm
    b. Include Feedback form and a Table of Contents page.
    c. Insert an image in the home page and link it to the Table of Content Page.
    d. You should be able to navigate to all the pages mentioned on the Table of Content from any of the other page, hence create proper links on each page.
    e. Use the different types of fonts and colors for different pages.

CSS

1. Create a Internal CSS to give the following effects to your HTML document
     - Set the background color
     - Set an image as the background- Repeat a background image vertically
     - Set a fixed background image (this image will not Scroll with the page)

2. Create a External CSS to give the following effects to your HTML document
     - Set the color of the text
     - Specify the space between characters
     - Align the text
     - Decorate the text
     - Indent text
     - Control the letters in a text

3. Write one example of Style Sheet which uses both Internal CSS and External CSS.

University Practical Exam Scheme: (3 Hours)

Program	Output	Viva	Journal	Total
25 Marks	15 Marks	20 Marks	10 Marks	70 Marks