

Kadi Sarva Vishwavidhyalaya, Gandhinagar

BCA Semester I

BCA104 – Part 2: Core 2

Internet Technology

Rationale:

The aim of this course is to provide the conceptual and technological developments in the field of internet and web designing with the emphasis knowledge of internet. The internet Web with its wide spread usefulness has become an integral part of the internet. Therefore, this course also puts emphasis on basic knowledge of internet, concepts of web designing and tools to design web pages.

Learning Outcomes:

- Review the current topics in web and internet technologies
- Describes the basic concepts for email and social networking
- Learn the basic working scheme of the internet and WWW
- Understand fundamental tools and technologies for web designing
- Comprehend the technologies for HTML (Hyper Text Markup Language)
- Specify design rules in constructing web pages and sites
- Effectively deal with designing issues and techniques with CSS

Resource Utilization:

Projector, Computer Lab, Internet, CSS Templates for Expansion of work, Reference Webpage Designs.

Teaching and Evaluation Scheme:

Sub. Code	Sub. Type	Subject Title	Teaching Scheme		Exam Scheme				
			Cr.	Hrs. / Week	Theory		Practical		Total Marks
					Internal	External	Internal	External	
BCA 104	Core	Internet Technology	4	4	30	70	-	-	100

Course content:

Unit: 1 Internet, Internet Technology and web applications: (25%)

Objective: Student will be able to work on internet and its related applications. They can search their interest using internet services. Student will get awareness about the appropriate use of search engines and surfing.

Content:

Introduction to Internet, Extranet, Intranet: Advantages of internet, Access of internet - Dial Up, Cable Modem Connection and WIFI. WWW. Web page, Web site, Hyperlink, URL, Introduction to Internet Domain Name System, FTP, Web Browsers and Web Servers. Uploading and Downloading files, Search Engines, Do's and Dont's for Search Engine, Email Communication and Social Networking (Uses, advantages and disadvantages)

Text book 1: Page nos: 1 to 39

No of Lectures: 07

Unit: 2 HTML - Basics and Advance

(25%)

Objective: Student will be able to learn the language of the web: HTML. Understands HTML tags to develop the static web pages. Understand the importance of the web as a medium of communication. Understand the principles of creating an effective web page, including an in-depth consideration of information architecture. Develop skills in analyzing the usability of a web site.

Content:

Basics of HTML: Introduction to HTML, HTML Documents Structure tags, text formatting tags (Block Formatting, Character Formatting), Link (Anchor) Tag, List Tag, Image, Audio-Video Tags, Marquee Tag,

Advance HTML: HTML Tables – Operations, Spanning on rows and columns, HTML Frames – HORIZONTAL AND VERTICAL FRAMESET, Inline frame and no frame, HTML Forms – Input, textarea, Selection list, fields.

Text book 1: page nos: 46 to 149

No of Lectures: 10

Unit: 3 Introduction Cascading Style Sheet

(25%)

Objective: The purpose of CSS is to provide Web developers with a standard way to define, apply, and manage sets of style characteristics.

Content:

Why CSS, what is CSS, CSS Syntax, CSS Inclusion, CSS Measurement units, CSS Colors, CSS Background, CSS Font and Text, CSS – working with images , CSS Links, CSS Tables and Borders, CSS Margins, CSS List, CSS Padding, CSS Scrollbar, ID and Class Selector, Inline, Internal and External stylesheet.

Textbook 1: page nos: 154 to 177

No of Lectures: 09

Unit:4 Advance CSS and CSS3

(25%)

Objective: Advance CSS and CSS3 introduces new client-side web designs. Student learns the CSS skills needed to create professional looking web pages.

Content:

CSS – Visibility, Positioning, layers, Pseudo Classes, Text effects, Media Type, Aural Media, Layouts, Printing, CSS – Rounded corner, Border Image, Multibackground, CSS3 – color, gradients, shadows, text, 2D and 3D Transform, Multicolumn, User Interface and Box sizing.

No of Lectures: 10

Web Reference:

www.W3Schools.com,

www.tutorialspoint.com

Textbook: Introduction to Internet and HTML Scripting by Bhaumik Shroff –

Books India PVT LTD References: Web Technology and design – C Xavier

Question Paper Scheme:

University Examination	Duration: 3 Hours.	Total marks: 70
Q.1-Unit-I & II		(11 Marks)
Objective / Short Questions		
Q.2-Unit-I		(12 Marks)
Descriptive / Long questions		
Q.3-Unit-II		(12 Marks)
Descriptive / Long questions		
Q.4-Unit-III & IV		(11 Marks)
Objective / Short Questions		
Q.5-Unit-III		(12 Marks)
Descriptive / Long questions		
Q.6-Unit-IV		(12 Marks)
Descriptive / Long questions		

Note: Q.2,3,5 and Q.6 must have at least 40% Internal Options (i.e. Attempt Any 3 out of 5)

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