



Gyanmanjari
Innovative University

Course Syllabus
Gyanmanjari College of Computer Science
Semester-3 (BSC IT)

Subject: Web Designing - BSCIT13310

Type of course: Major Core

Prerequisite: Basic terminology of Computer

Rationale:

Internet is widely used in different areas such as banking, e-commerce, education and many others. Different technologies are used to develop web applications but HTML is the core component in all types of applications for formatting and presenting the web content. This course will impart skill sets related to designing HTML web pages, using cascading style sheets. This course will also serve as a prerequisite for the advanced web development technologies, which students will learn in the upcoming semester.

Throughout the course, hands-on exercises, projects, and assignments should be included to reinforce learning and practical application of concepts. Additionally, interactive discussions, code reviews, and collaboration opportunities can enhance the learning experience for students.

Teaching and Examination Scheme:

Teaching Scheme			Credits	Examination Marks					Total Marks
CI	T	P	C	SEE		CCE			
				Theory	Practical	MSE	LWA	ALA	
3	0	2	4	75	25	30	20	50	200

Legends: CI-Class Room Instructions; T – Tutorial; P - Practical; C – Credit; SEE - Semester End Evaluation; MSE- Mid Semester Examination; LWA - Lab Work Assessment; V – Viva voce; CCE- Continuous and Comprehensive Evaluation; ALA- Active Learning Activities.

CourseContent:

Sr. No	Course content	Hrs	% Weightage
1	Internet Fundamentals - Internet, Intranet, Extranet - Internet Applications	08	20%



	▪ WWW ▪ E-mail ▪ FTP(File Transfer Protocol), ▪ IRC (Internet Relay Chat), ▪ Web Chat, ▪ Newsgroup, ▪ UseNet, ▪ BBS (Bulletin-board system), ▪ NetMeeting, ▪ Video Conferencing) • Web browser, Web site, Web page		
2	Basic of HTML • Introduction to HTML • Syntax - Tags and Attributes • Formatting Tags (Body, Heading Styles, Paragraph, q,sub, sup, Mark, Pre, Special Characters, head, title) • Image Tags (img, figure, figcaption, map, area) • Hyper linking, E-mail Link • Lists ▪ Sorted List ▪ Unsorted List ▪ Definition List	10	25%
3	Advanced HTML • Tables (table, th, tr, td, col, colgroup, caption) • Semantic Elements (header, nav, section, article, aside, footer) • Media Tags (audio, video, embed, svg) • HTML Form ▪ Form Object ▪ Form Elements and its properties and events (Input types-Text, Date, email etc.,)	09	20%
4	Cascading Style Sheet • Introduction to CSS • CSS Types (inline Style, Embedded Style, Linked Style) • Applying CSS styles to web page elements • div Tag • CSS Selectors (Class and ID)	08	15%
5	JavaScript • Introduction to JavaScript • Basic Syntax - Statements, • Comments, Data types, Variables • Working with built-in functions(alert(), prompt(), parsingfunctions, eval()) • HTML Events(onchange, onclick, onmouseover, onmouseout, onkeydown, onload)	10	20%



Continuous Assessment:

(For each activity maximum-minimum range is 5 to 10 marks)

Sr. No	Active Learning Activities	Marks
1	Selective Response : Students will be assigned a selective response based test on GMIU Web Portal.	10
2	Error Hunter : Students will be assigned a code containing intentional errors, students need to identify errors, correct and upload on GMIU Web Portal.	10
3	Hand on Task : Students will be assigned a Hand on task and they have to perform and submit it on GMIU Web Portal.	10
4	Skill-Enhancement (Group Activity) : Mini project definition will be given; Students have to upload the task on GMIU Web Portal.(group of four)	10
5	Attendance	10
Total		50

Suggested Specification table with Marks (Theory):75

Distribution of Theory Marks (Revised Bloom's Taxonomy)						
Level	Remembrance (R)	Understanding (U)	Application (A)	Analyze (N)	Evaluate (E)	Create (C)
Weightage	25%	45%	15%	15%	0	0

Note: This specification table shall be treated as a general guideline for students and teachers. The actual distribution of marks in the question paper may vary slightly from above table.

Course Outcome:

After learning the course the students should be able to:	
CO1	Understand use of Internet, Intranet, Extranet, E-Mail, and E-Mail Protocols, Web browser, Website, Web page etc....
CO2	Design webpage using formatting, image and table tags.
CO3	Utilize advanced HTML tags for designing interactive and semantic web pages.
CO4	Implement CSS internal and external style sheets for designing web pages.
CO5	Use a JavaScript with HTML and CSS to create a Web application.



List of Practical

Sr. No	Descriptions	Unit No	Hrs
1	Use HTML text formatting tags to create web page.	2	1
2	Use hyper link tag to navigate through different web pages.	2	2
3	Use image tags to create web page.	2	2
4	Use HTML table tags to create web page.	2	2
5	Use sorted list to create web page.	3	1
6	Use unsorted list to create web page.	3	1
7	Use definition list to create web page.	3	1
8	Use semantic tags to organize web page contents .	3	2
9	Create a student registration webpage using different HTML form elements.	3	2
10	Create student feedback form using different HTML form elements.	3	2
11	Create a bank account opening form using different HTML form elements.	3	2
12	Use inline, internal and external style sheets for the student registration form and bank account form created in previous practical.	3,4	2
13	Use different CSS elements to create and format your Profile Page (Note: use CSS Background, Text, Font, Tables, Links, Images, Margin etc)	3,4	2
14	Create and format your class time table Page Using Different CSS Elements (Note: use CSS Background, Text, Font, Tables, Links, Images, Margin etc)	3,4	2
15	Write JavaScript to perform the following operations: a) To calculate sum of 1 to n b) To check whether given number is prime or not c) To check whether given number is Armstrong or not d) To check whether given number is palindrome or not e) To calculate factorial of n f) To find highest from given three values g) To print any triangle form for given n h) To find all primes which are lies between a given ranges.	5	6
		Total	30



Instructional Method:

The course delivery method will depend upon the requirement of content and need of students. The teacher in addition to conventional teaching method by black board, may also use any of tools such as demonstration, role play, Quiz, brainstorming, MOOCs etc.

From the content 10% topics are suggested for flipped mode instruction.

Students will use supplementary resources such as online videos, NPTEL/SWAYAM videos, e-courses, Virtual Laboratory

The internal evaluation will be done on the basis of Active Learning Assignment

Practical/Viva examination will be conducted at the end of semester for evaluation of performance of students in laboratory.

Reference Books:

- [1] HTML 5 Blackbook - DT Editorial services, Dreamtech press, New Delhi,
- [2] HTML & CSS: The Complete Reference - Thomas Powell, Tata McGraw Hills, New Delhi
- [3] Introduction to Internet & HTML Scripting By Bhaumik Shroff Books India Publication 3rd Edition
- [4] The Complete reference HTML and CSS - Thomas A. Powell
- [5] JavaScript the CompleteReference - Thomas Powell - Tata McGraw Hills, New Delhi

