



**Syllabus for First Year M.Sc. (CA&IT)
Semester-II**

[Five Years' (Full-time) M.Sc. (CA&IT) Integrated Degree Course]

Offered in

**K. S. School of Business Management and
Information Technology**

Gujarat University

2023–2024

As per

**NEP2020 CURRICULUM AND CREDIT FRAMEWORK FOR
UNDER GRADUATE PROGRAMMES, UGC**

&

Resolution No. KCG/admin/2023-24/0607/kh.1

of

Education Department, Govt. of Gujarat

Semester-II

(B.Sc.(CA&IT)Programme)

Skill Enhancement Course

Gujarat University
K. S. School of Business Management and Information Technology
[Five Years' (Full – Time) M.Sc. (CA&IT) Integrated Degree Course]
First Year M.Sc. (CA&IT) (Semester - II)

Course Name: Web Design and Development

Course Code: SEC-WDD-126

Course Credit: 2

Course Outcomes:

After learning the course, the students should be able:

- Grasp the core concepts and usage of HTML and CSS in web development.
- Understand the principles of responsive design and accessibility.
- Apply best practices in structuring and styling web pages.
- Develop basic programming skills with JavaScript to add interactivity to web pages.
- Apply principles of web accessibility and SEO in web development projects.
- Utilize development tools to enhance productivity and collaboration.

Contents:

Unit No.	Course Content	Hours	Credits
1	Introduction to Web Development: Overview of web technologies, history of the web, understanding web standards. HTML Fundamentals: Basic to advanced HTML practices, including text formatting, lists, tables, forms, and embedding media, with a focus on semantic HTML and accessibility. CSS for Styling and Layouts: Introduction to CSS, including selectors, the box model, introduction to Flex box, and CSS Grid. Responsive design principles using media queries are emphasized to ensure students can create designs that adapt to various screen sizes.	30	1
2	Introduction to JavaScript: Covering JavaScript basics (variables, data types, operators, control structures), functions, and event handling. Introduction to the Document Object Model (DOM) and how to manipulate web page content dynamically. Web Accessibility and Best Practices: Deepening understanding of web accessibility, including ARIA roles and properties. Introduction to SEO basics and performance optimization techniques for web pages. Introduction to Web Development Tools: Overview of essential tools, including version control with Git, browser developer tools, and basic usage of package managers like NPM.	30	1

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Reference Books:

1. HTML and CSS: Design and Build Websites"
By Jon Duckett
2. Learning Web Design: A Beginner's Guide to HTML, CSS, JavaScript, and Web Graphics"
By Jennifer Niederst Robbins
3. Eloquent JavaScript: A Modern Introduction to Programming"
By Marijn Haverbeke
4. JavaScript & jQuery: Interactive Front-End Web Development"
By Jon Duckett
5. Pro Git
By Scott Chacon and Ben Straub

Accomplishments of the student after completing the Course:

After completion of this course Student would be able to

- Students will have a solid understanding of HTML and CSS, able to structure web pages efficiently and style them to be visually appealing.
- By learning the basics of JavaScript, students will be able to add dynamic content and interactivity to web pages.
- The course's emphasis on hands-on learning and practical application will have sharpened students' problem-solving abilities.