Learning outcomes

In this session, week 1, student will learn how the web works, the different type of internet browsers, web servers, screen readers, what do you see on a web and how it is crated, what is HTML, CSS, frameworks, text editors: notepad and atom; where and how to meet the community of web technology.

Students will:

- Be introduced on how HTML describes the structure of a web page.
- Learn how tags or elements are added to your document and how to work with three main tags (tags: body, head, and title)
- Use headings and paragraphs tags to create structure markups (tags: h1-h6, p, b, I, sup, sub, br, hr)
- Use words and sentences emphases tags to create semantic markups (tags: strong, em, blockquote, q, abbr, cite, dfn, address, ins, del, s)
- Use tags to create three different types of HTML lists: ordered, unordered, and definition lists.
- Introduce how CSS works; learn how to write CSS rules and how they are applied to HTML pages; understand and use the various properties of CSS.
- Learn how to specify colors and color terminology; how to use contrast and ensuring that your text is readable; and to use background colors in an entire page or part of the page.
- Understand how to use properties in CSS to control a text format such as to choice font, size, weight, style, and spacing.
- Learn how CSS properties in each HTML elements to control the dimensions of boxes, create borders around boxes, set margins and padding for boxes, and show and hide boxes.
- Learn how to use several CSS properties to work with HTML elements such as lists, tables, and forms. Some of these properties involve in how to specify the type of bullet point or numbering on lists, add borders and backgrounds to table cells, and how to control the appearance of form controls.
- Understand how to create attractive page layouts
- Learn the different between fixed width and liquid layouts, and how they are created
- Learn how to control the size alignment of an image, add background images, and images rollover using CSS.
- Understand how to select elements using id and class
- Explore the different ways to position elements using normal flow, relative positioning, absolute positioning and floats
- Discover how various devices have different screen sizes and resolutions, and how this affects the design process
- Learn how designers use grids to make their page designs look more professional.
- Learn the different techniques to use and manipulate colors
- Understand and create simple animation and slideshow using CSS animation @keyframes.
- Learn and use CSS's attributes as transition, opacity, and pointer-event to create modal windows.
- Use @media query to create responsive webpages.