



Affiliated to Tribhuvan University

NEPATHYA COLLEGE

"An ISO 9001:2015 Certified Institution"



Web Design Fundamentals: HTML, Style Sheets and Bootstrap

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1. Course Objective

- Learn how to design and develop a Web page using HTML and CSS.
- Learn how to link pages so that they create a Web site.
- Design and develop a Web site using text, images, links, lists, and tables for navigation and layout.
- Style your page using CSS, internal style sheets, and external style sheets.
- Learn how to use graphics in Web design.

2. Learning outcome

At the end of the course, students should be able to:

- Create local HTML pages and move them to a remote web server.
- Design and develop basic web pages using HTML and CSS.
- Use graphics and tables in Web pages.
- Link pages so that they create a Web site.
- Design and develop web pages using CSS styles, internal and/or external style sheets.
- Design and develop web pages using CSS for layout.

3. Pre-requisite / Target Audience

- Any beginner who wants to build the career as web designer can take this course.
- Basic Knowledge of Programming.

4. HTML Course Content

1. HTML Introduction
 - Introduction to HTML, Version of HTML and HTML 5
 - HTML Editors
2. HTML Documents
 - HTML Element and Tags
 - HTML Documents = Web Pages
 - Example & Implementation
3. HTML Attributes
 - Attribute Example
 - HTML Attributes Reference
 - Example & Implementation
4. HTML Headings
 - Heading are important
 - HTML Lines
 - HTML Comment
 - HTML Paragraphs
 - HTMLTag
 - HTML Links & Style
 - Example & Implementation
5. HTML Images and Videos
 - HTML Images-The Alt Attribute
 - Basic Notes-Useful Tips for img tag
 - HTML ImageTags
 - HTML Image Insertion
 - HTML Embedding Videos
 - Example & Implementation
6. HTML Tables
 - HTML Table and Border attribute
 - HTML Table Header
 - Example & Implementation
7. HTML Lists
 - HTML Unordered Lists
 - HTML Ordered Lists
 - Example & Implementation
8. HTML Forms - The Input Element
 - Introduction to Forms
 - Forms Tags and Attribute
 - HTML Forms – Post vs Get
 - Input Text Fields and Password Field
 - Radio Buttons
 - Checkboxes
 - Text Area and Submit Button
 - Example & Implementation
9. HTML Frames
 - The HTML frameset Element
 - The HTML frame Element
 - Example & Implementation

10. HTML iframe

- Iframe - Set Height and Width
- Iframe - Remove the Border
- Use iframe as a Target for a Link
- Example & Implementation

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5. Cascading Style Sheet (CSS) Course Contents

1. CSS Introduction
 - Introduction to CSS
 - CSS SYNTAX
 - CSS COMMENTS
 - Example & Implementation
2. The ID and Class Selectors
 - ID Selectors
 - class Selectors
 - Grouping Selectors
 - Universal Selector
 - Descendant / Child Selector
 - Attribute Selectors
 - CSS – Pseudo Classes
 - Example & Implementation
3. Color Background Cursor
 - background-image
 - background-repeat
 - background-position
 - CSS Cursor
 - Example & Implementation
4. Text Fonts
 - color
 - background-color
 - text-decoration
 - text-align
 - vertical-align
 - text-indent
 - text-transform
 - white-space
 - letter-spacing
 - word-spacing
 - line-height
 - font-family
 - font-size
 - font-style
 - font-variant
 - font-weight
 - Example & Implementation
5. Lists Tables
 - list-style-position
 - list-style-image
 - list-style
 - CSS Tables
 - border
 - width & height.
 - Text-align
 - Vertical-align
 - Padding

- Color
- Example & Implementation
- 6. Box Model
 - Borders & Outline
 - Margin & Padding
 - Height and width
 - CSS Dimensions
 - Example & Implementation
- 7. Display Positioning
 - CSS Visibility
 - CSS Display
 - CSS Scrollbars
 - CSS Positioning
 - Static Positioning
 - Fixed Positioning
 - Relative Positioning
 - Absolute Positioning
 - CSS Layers with Z-Index
 - Example & Implementation
- 8. CSS Floats
 - The float Property
 - The clear Property
 - The clearfix Hack
 - Example & Implementation

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6. Bootstrap

Pre-requisite / Target Audience: An intermediate knowledge of HTML and CSS.

6.1. Module 1: Getting Started with Bootstrap

1. Introduction to Bootstrap
2. Syntax of Bootstrap
3. Containers and Container Fluid
4. Grid Basic

6.2. Module 2: Bootstrap Component

1. Typography
2. colors
3. Tables
4. Images
5. Jumbotron
6. Alerts
7. Button and Button Groups
8. Badges
9. Progress Bar
10. Spinners
11. Pagination
12. List Groups
13. Cards
14. Dropdown
15. Collapse
16. Navs and Navbar
17. Forms, Input groups, and Custom forms
18. Carousel
19. Modal
20. Tooltip
21. Popover
22. Toast
23. Scrollspy
24. Utilities
25. Flex
26. Icons
27. Media object
28. Filters

6.3. Module – 3: Bootstrap Grid

1. Grid System
2. Stacked/ Horizontal
3. Grid Xsmall
4. Grid Small
5. Grid Medium

6. Grid Large
7. Grid Xlarge
8. Grid Examples

6.4. Module 4: Building Forms with Bootstrap

1. Form Groups and Form control
2. Custom Form
3. Structured Form Layout with the Grids
4. Adding Validation Sytle
5. Customer CSS

7. Project

After the completion of the course, students need to do a submit a project to the tutor that you have learned in the course.