# CETPA INFOTECH PVT. LTD.

# NOIDA

# CETPA INFOTECH PVT. LTD.
# CURRICULUM OF UI-DESIGN

## HTML
- What is HTML?
- What is a Web Browser?
- What are Versions of HTML?
- What can You Do with HTML?
- HTML Development Environments
- Writing Code with a Text Editor
- Publishing Documents

## Review of HTML Elements
- Rules of Syntax
- Making your Code Readable
- Making your Code XHTML Compliant
- Building a Document
- Using Colors
- Adding Color to your Page
- Using Headings
- Using Paragraphs
- Aligning Block-Level Elements

## Inserting Spaces and Line Breaks
- Displaying Preformatted Text
- Formatting with Inline Elements
- Controlling Fonts
- Introducing List Elements
- Creating Unordered Lists
- Creating Ordered Lists
- Nesting Lists

## What is an HTML Table?
- Building a Table
- Cell Padding and Cell Spacing
- Controlling Table and Cell Width
- Aligning a Table on the Page
- Aligning Tables and Text
- Aligning Table Data
- Spanning Columns and Rows
- Nesting Tables
- Using Tables as a Design Tool

## Creating a Hyperlink
- Understanding and Using URLs
- Linking to a Web Document
- Linking to a Local Document
- Linking to Anchors
- Opening a New Browser Window

## Image Formats
- Optimizing Image and File Size
- Inserting Inline Images, ImageMap, Sprite Image
- Aligning and Formatting Images
- Using Images to Anchor Links
- Creating a Look-and-Feel
- Sizing and Scaling Images
- Using Transparent Images
- Using GIF Animation

## Forms and Controls
- Forms , Form Elements
- Form Actions, Form Methods , Form Design

## CSS 3
## Introduction to CSS 3
## Border
- border-image
- border-radius

## CSS Shadows
- Text-shadow
- Box-shadow

## Background
- background-clip
- background-size
- background-origin
- background-image

## Outline Transitions
- transition
- transition-delay

- transition-duration
- transition-property

## 2D Transforms
- transform
- matrix()
- translate(x,y)
- scale(x,y)
- rotate(angle)
- skew(x-angle,y-angle)

## 3D Transforms
- transform
- transform-style
- perspective
- transform-origin

## Animations
- @keyframes
- animation
- animation-direction
- animation-duration
- animation-name

## Selectors
- CSS combinations
- Pseudo Elements

## Gradients
- Linear Gradients
- Radial Gradients

## Multiple Columns
- column-count
- column-fill
- column-gap
- column-width
- columns
- column-rule
- column-rule-color
- column-rule-style
- column-rule-width

## User Interface
- resize
- box-sizing
- outline-offset

## CSS Filters
- Blur
- Brightness

- Contrast
- Grayscale
- Hue-rotate
- Invert
- Opacity
- Saturate
- Sepia

## Media Query
- What is Responsive Web Design
- Intro to the Viewport
- The Viewport Tag
- Media Queries
- Fluid Layouts
- Tablet Styles
- Mobile Styles
- Making a Mobile Drop-down Menu
- Responsive Images & Polyfills

## Web Fonts
- @font-face
- font-family
- src
- font-stretch
- font-style
- font-weight

## Flexbox
- flex-grow
- flex-shrink
- flex-basis
- flex
- flex-wrap
- flex-direction
- flex-flow
- justify-content
- align-items
- order

## JavaScript
### Introduction to JavaScript
- Syntax
- Statements
- Comments

## Enabling in various browsers Popup Boxes
- Alert
- Confirm
- Prompt

## Variables Operators
- Arithmetic

- Assignment
- Comparison
- Logical
- Relational
- Ternary

## Conditional Statements
- If else
- if...else if...else
- nested if
- Switch

## Loops
- While
- do...while
- for
- for...in Statement
- Break
- Continue

## Functions
- User-de ned Functions
- Function Syntax
- Function with Arguments
- Returning Values from Functions
- Built-in Functions

## Events
- Introduction
- Mouse
- Events
- Keyboard Events
- Form Events
- Document/Window Events

## Built-in Objects
- Number
- Strings
- Math
- Arrays
- Associative
- Array
- Array Properties and Methods
- Date
- Boolean
- Regexp

## Introduction to OOP concept
- Prototype, Module pattern
- Argumenting type
- Closure

- ES 6 Introduction
- Let & Const
- Arrow Functions
- Class and Inheritance
- Rest and Map Operators
- Export & Import
- Modules

## *JQuery*
- Getting Started with jQuery
- Selecting Elements
- Manipulating the Page
- Traversing the DOM and Chaining
- jQuery Utility Methods
- Handling Events and Event Delegation
- AJAX, JSON and Deferreds
- Enhancing with Animation Effects
- Grids , Tables with Ajax , Pagination, JQuery UI
- jQuery Best Practices

## *HTML 5  Introduction*
### Laying out a page with HTML5
- Page Structure
- New HTML5 Structural Tags
- Page Simplification

## *HTML5 - How we got here*
- The Problems HTML 4 Addresses
- The Problems XHTML Addresses
- New Features of HTML5
- The HTML5 Spec(s)
- Current State of Browser Support

## *SECTIONS AND ARTICLES*
- The section Tag
- The article Tag
- Outlining
- Accessibility

## *HTML5 AUDIO AND VIDEO*
- Supported Media Types
- The audio Element
- The video Element
- Accessibility
- Scripting Media Elements
- Dealing with Non-Supporting Browsers

**HTML5 FORMS**

- Modernizr
- New Input Types

**HTML5 NEW FORM ATTRIBUTES**

- autocomplete
- novalidate

**HTML5 NEW FORM FIELD ATTRIBUTES**

- required
- placeholder
- autofocus
- autocomplete
- form
- pattern

**NEW FORM ELEMENTS**

- datalist
- progress and meter

**HTML5 WEB STORAGE**

- Overview of HTML5 Web Storage
- Web Storage
- Other Storage Methods

**HTML5 CANVAS**

- Getting Started with Canvas
- Drawing Lines
- Color and Transparency
- Rectangles
- Circles and Arcs
- Quadratic and Bezier Curves
- Images
- Text

**INTEGRATED APIS**

- Offline Application API
- Drag and Drop API

# BootStrap 4

**Introduction**

- Introduction
- Quick Styles After Dark

- Our First Web Page
- What's Inside?
- Scripts and Styles
- Core Concepts
- Summary

*Layout with Bootstrap*

- Introduction
- Grid Layouts
- Simple Layout
- Fixed Grids
- Fluid Grids
- Responsive Design
- Responsive Utilities
- Inspiration
- Summary

*Everyday Bootstrap*

- Introduction
- Typography
- Tables
- Forms
- Buttons
- Images and Icons
- Summary

*Bootstrap Component*

- Introductions
- Drop down Menu
- Buttons with Menus
- Tabs and Pill
- The Navbars
- Heros, Badges, Labels, and Media
- Summary

*Bootstrap and JavaScript*

- Introduction
- More Buttons
- Modals
- Tooltips and Popovers
- Carousel
- Summary

**Developing a MINI Project**

**Website Hosting**