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## WEB DESIGN AND DEVELOPEMENT

Duration – 5-6 Months

### BASIC HTML

- Basic HTML Tags
- Hyperlink
- Images
- Form
- Table

### CSS 2

- Basic use of css
- Formatting the page with CSS
- Understanding DIV
- Make a simple website using DIV/CSS
- Creating menu with CSS

### PHOTOSHOP

- Learn to use tools of Photoshop
- Photo editing
- Photo Mixing
- Creating banners
- Create one website layout

### JAVASCRIPT

- Basic Javascript
- Javascript Basic Tags
- String
- Array
- Functions

### JQUERY

- Basic JQuery
- jQuery Introduction & Basic Tags
- Hide/Show
- jQuery Fade
- jQuery Slide
- jQuery Animate
- jQuery stop()
- jQuery Callback
- Query Chaining
- jQuery HTML



## HTML5

- Intro
- Slice your Design with HTML5
- New Elements
- Canvas/SVG
- Drag/Drop
- Geolocation
- Video / Audio
- Input Types
- Form Elements
- Form Attributes

## CSS3

- Animation with CSS
- Borders, CSS3 Backgrounds
- Text Effects, Fonts
- 2D Transforms, 3D Transforms
- Transitions, Animations
- Multiple Columns
- User Interface

## RESPONSIVE WEBSITE

- Do your slicing with responsive website
- How to use HTML5 for responsive
- How to use CSS3 for responsive

## BOOTSTRAP

- Download latest version of Bootstrap
- Install and configure
- Understanding Bootstrap Grid System
- Creating rows
- Creating columns
- Creating cells with the grid system.
- Make a responsive photogallery



### **CSS with Bootstrap**

- Use bootstrap classes for content, images and learn how to override those styles.
- Understanding Bootstrap Components
- Use inbuilt components like navigation, breadcrumbs, paginations, icons, etc.
- JQuery with Bootstrap
- Add JavaScript components like dropdown menus, tooltips, popovers, alert boxes, etc to your pages.

### **W3.CSS**

- Install and configure
- Make a responsive website
- Creating rows
- Creating columns
- Creating cells with the grid system.
- Understanding Grid System
- Use W3 responsive css classes for content, images and learn how to override those styles.
- Understanding Bootstrap Components
- W3 responsive Material, Flat UI, Metro UI, Libraries.

### **Overview of the PHP & My SQL**

- Introduction of different Web Technology

### **Working with the web**

- Client / Server Programs
- Server Communication
- Sessions
- Cookies
- Typed Languages
- What is PHP
- PHP: Benefits to RPG Programmers
- Introduction to PHP Syntax
- How PHP works with HTML
- Basic HTML Elements

### **Configuring PHP**

- Setting Up a Development Environment
- PHP.INI Settings



## **Introduction to PHP**

- Comments
- Variables and Data Types
- Constants
- Global
- Strings
- Arrays
- References
- Variable References
- Scope

## **Operators**

- Operators and Conditional Statements
- Combining Operators
- String Operators
- Comparison Operators
- Logical Operators
- Conditionals

## **Looping, Condition and Statements**

- for
- while
- do-while
- Switch
- continue
- Break
- If-Else , Nested If-Else
- Foreach

## **Function basics**

- Types of Functions
- Calling Functions
- Declaring Functions
- Function Inputs
- Function Outputs
- Internal Functions



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## Types of Error in PHP:

- Understand the Basic syntax and Parse error
- Know the different Notice error in PHP
- Warning errors in PHP
- Fatal error in PHP
- Difference Between fatal error and warning with example
- How to solve errors with debugging concept in PHP
- Understand error reporting in php.ini file
- Difference between include() function and include\_once() function
- Difference between require() function and require\_once() function
- Difference between include() and require() function



### **PHP and Data Sources**

- Connecting PHP and MySQL
- Relational Database
- SQL and MySQL
- Running MySQL
- DB Access using the PHP

### **File Handling In PHP**

- Including File
- File System Basics
- Types of File Functions
- Opening Files
- Reading from Files
- Writing to Files
- Closing Files
- File System Performance

### **PHP Web Concepts**

- Server Communication
- HTTP Headers
- Output Buffering
- Browser Caching
- Cookies
- Sessions
- Email
- Forms

### **PHP Object-Oriented Programming**

- Classes
- Static Context
- Visibility (PPP)
- Overriding Functions
- Interfaces
- Namespaces



### **Critical Aspects Of Building Php Applications**

- Testing and Debugging
- Troubleshooting Procedures: Development
- phpDocumentor, phpDoc
- Exceptions
- Web Services
- Performance Enhancements
- Security and Validation

### **AJAX**

- Introduction
- XML HTTP Request Object
- Creating a Request to Object
- Sending a request to Server
- Receiving a response from Server
- Ready State and Status of a request

### **Project Work**