

Courses	Duration
<p><u>Web Design Principles</u></p> <ul style="list-style-type: none"> • Basic principles involved in developing a web site • Planning process • Designing navigation bar • Page design • Home Page Layout • Design Concept. <p><u>Brief History of Internet</u></p> <ul style="list-style-type: none"> • What is World Wide Web • Why create a web site • Web Standards <p><u>Introduction to HTML</u></p> <ul style="list-style-type: none"> • What is HTML • HTML Documents • Basic structure of an HTML document • Creating an HTML document • Mark up Tags • Heading-Paragraphs • Line Breaks • HTML Tags. <p><u>Elements of HTML</u></p> <ul style="list-style-type: none"> • Introduction to elements of HTML • Working with Text • Working with Lists, Tables and Frames • Working with Hyperlinks, Images and Multimedia • Working with Forms and controls. <p><u>Introduction to Cascading Style Sheets</u></p> <ul style="list-style-type: none"> • Concept of CSS • Creating Style Sheet • CSS Properties • CSS Styling(Background, Text Format, Controlling Fonts) • Working with block elements and objects • Working with Lists and Tables • CSS Id and Class • CSS Advanced(Grouping, Dimension, Display, Positioning, Floating, Align, Pseudo class, Navigation Bar, Image Sprites, Attribute sector) • Box Model(Introduction, Border, Padding, Margin properties) • CSS Color 	<p>2 Days</p>



<ul style="list-style-type: none"> • Creating page Layout and Site Designs 	
<p><u>Structured Query Language (SQL) – PostgreSQL</u></p> <ul style="list-style-type: none"> • Introduction to SQL • Basics of DBMS concepts • Understanding of DCL, DDL, DML • Retrieving, Updating, Inserting, Deleting Data • Sorting and Filtering Data • Advanced Filtering • Summarizing Data • Grouping Data • Using Sub queries • Joining Tables • Managing Tables • Using Views • Using Cursors • Using Transactions • Working with Indexes <p><u>Advanced Concepts (SQL)</u></p> <ul style="list-style-type: none"> • Working with Cursor • Isolation Levels • Error Handling • Stored Procedures • Functions and Packages • Implementing Triggers 	2 Days
<p><u>JavaScript</u></p> <ul style="list-style-type: none"> • Introduction to JavaScript • Language syntax • Built in functions • HTML DOM, forms • Cookies • Working with Objects and Classes • Inheritance in JavaScript using prototype • AJAX 	1 Day



<u>jQuery</u> <ul style="list-style-type: none"> • Introduction to jQuery • jQuery selectors • DOM traversal and manipulation • Effects • Events • AJAX • jQuery Filters 	1 Day
<u>Python programming</u> <ul style="list-style-type: none"> • Introduction to Python • Data Types • Program Flow Control • Functions, Modules and Packages • String, List and Dictionary Manipulations • Input and Output – File Operation • Object Oriented Programming – OOPS • Regular Expression • Errors and Exception Handling • Database Interaction • Multithreading • Data Structures <ul style="list-style-type: none"> ○ Stacks ○ Linked Lists ○ Queues ○ Trees ○ Graphs ○ Searching and Sorting 	2 Days
<u>Python web frameworks – Flask</u> <ul style="list-style-type: none"> • Setting up virtual environments • Introduction to Flask • Request Response Cycle • What is the Request Object? • HTML Forms • Jinja Templating • HTTP Verbs • Sending a response in different formats. (JSON, HTML Templates) • SQLAlchemy Introduction • Building a full stack web application that will make requests to HTTP API's, and persist information in a SQL database. Utilize HTML, CSS, JavaScript, AJAX, Flask, and SQL 	2 Days
<u>Software Development Life Cycle (SDLC) using AGILE Model</u>	2 days



(Planning, Requirements Analysis, Design, Coding, Unit Testing and Acceptance Testing)

- Agile Fundamentals
 - Why Agile?
 - Agile Manifesto
 - Benefits of Agile
- Requirements and Planning
 - Gathering Requirements
 - User Stories, Generating User Stories
 - Agile Estimation and Planning
 - Estimation Styles and Process
- Scrum
 - Overview
 - Planning
 - Tracking
 - Execution and Daily stand ups
 - Review
 - Retrospection

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