|  |
| --- |
| **HTML** |
| * **Introduction**   + **Elements**   + **Attributes** * **HTML Document Head**   + **Title**   + **Meta tag**   + **Charset**   + **Style tag**   + **Script tag**   + **Link tag**   + **Base tag** * **HTML Body**   + **What is Semantic?**   + **Block vs Inline elements**   + **Text format**   + **Header tags** * **Links / Anchor tags**   + **Target, title attributes**   + **Relative vs Absolute**   + **Id links and External id links**   + **Access Keys** * **Html Lists**   + **Unordered list**   + **Ordered list**   + **Definition list**   + **Nested list** * **Table**   + **Table structure**   + **Semantic Table structure**   + **Rows - Columns**   + **Col Span**   + **Row Span**   + **Cell padding, Cell spacing**   + **Borders and formatting table** * **Images and objects**   + **Embedding images**   + **Working with Transparent images**   + **Embedding Video audio**   + **Object tag with params** * **Html Forms** * **Form tag**   + **Input types** * **Layouts and semantic html layout structure** * **Usability & Accessibility standards** * **Creating Sample Project using Html** | |
| **http://www.pragimtech.com/Images/ArrowPointer.gif** | **CSS** |
| * **Introduction** * **Types of CSS** * **Syntax** * **Selectors** * **Colours** * **Lengths & Percentages** * **Formatting html elements** * **CSS box model** * **Grouping** * **Nesting** * **Pseudo classes and elements** * **Floats** * **Display property** * **Positions** * **Background images** * **Shorthand properties** * **Rounded corners** * **Gradients** * **Embedding fonts** * **Transitions** * **Layouts** * **Fixed layouts** * **RWD** | |
| **http://www.pragimtech.com/Images/ArrowPointer.gif** | **Java Script** |
| * **Data types**   + **Numbers**   + **Strings**   + **Boolean**   + **Undefined**   + **Null**   + **Arrays**   + **Objects** * **Variables** * **Comments** * **Operators**   + **Arithmetic operators**   + **Comparison operators**   + **Logical operators**   + **Assignment operators**   + **Conditional operator** * **Conditional Statements**   + **If, if else, if else if**   + **Switch** * **Loops**   + **While loop**   + **Do while loop**   + **For loop (Advance concepts how to optimize)**   + **For in loop (will be discussed in objects)** * **Functions**   + **Defining function**   + **Types of defining functions and types of calling functions**   + **Function statements**   + **Working parameters**   + **Assign params to functions**   + **Working with ‘N’ number of params**   + **Special Arguments array**   + **Return statements**   + **Anonymous functions**   + **Nested functions**   + **Function that return functions**   + **Self-invoking functions**   + **Literal functions** * **Scopes**   + **Lexical scope**   + **Closures**   + **Closures in Loop** * **Objects /Prototype & patterns (Object oriented javascript)**   + **What is objects?**   + **Defining Objects?**   + **Properties and methods**   + **Inheritance**   + **Prototype**   + **Js patterns**   + **Singleton pattern**   + **Constructor pattern**   + **Discussing about other patterns**   + **Linking objects with another object**   + **Accessing other object properties and methods** * **Data Structures**   + **Arrays**   + **Defining arrays**   + **Exploring arrays properties**   + **Exploring array methods**   + **Working with multi-dimensional arrays**   + **Looping array data**   + **More Advanced concepts in Arrays and array methods** * **Javascript Built in Functions and objects**   + **String**   + **Date**   + **Math**   + **Regex**   + **BOM, DOM, Window** * **Events**   + **Exploring event types**   + **Binding events**   + **Optimal way of attaching events**   + **Event Phases**   + **Capturing**   + **Bubbling**   + **Targeting**   + **Event Delegation**   + **Prevent Default** * **Working with timeout functions** * **Ajax with Core javascript** * **Form handling with javascript** * **Cookies** * **Error Handling** * **Debugging** * **Sample Project Creation using Javascript** | |
| **http://www.pragimtech.com/Images/ArrowPointer.gif** | **JQuery** |
| * **Introduction** * **Jquery Selectors** * **Jquery Events** * **Jquery Effects** * **Modifying DOM** * **Ajax** * **Form Validation** * **Creating Sample project** | |
| **http://www.pragimtech.com/Images/ArrowPointer.gif** | **HTML5** |
| * **New HTML 5 Controls**   + **Audio and Video Controls**   + **New input types**   + **Canvas**   + **SUV control**   + **New Semantic controls** * **HTML5 API**   + **Exploring HTML5 new features**   + **GEO Location**   + **Drag/Drop**   + **Local Storage**   + **App Cache**   + **WEB Workers**   + **SSE** | |
| **http://www.pragimtech.com/Images/ArrowPointer.gif** | **BootStrap3** |
| * **Introduction** * **Layout system** * **Grid system** * **Components** * **Themes** * **Creating Project with bootstrap** | |
| **http://www.pragimtech.com/Images/ArrowPointer.gif** | **Angular JS** |
| * **Angular JS Introduction** * **Angular Features** * **MVC/MV\* Architecture** * **Controllers & Models, Views** * **Predefined Directives** * **Filters** * **Creating Custom Filter in real time** * **Services**   + **$scope, $rootScope, $location, $log, $timeout, $interval, $anchorScroll**   + **$http, $route, $filter, $q** * **Single Page Application (SPA) using routing** * **Advanced UI routing** * **Custom services**   + **Provider method**   + **Service method**   + **Factory Method**   + **Constant method**   + **Value Method**   + **Making a service asynchronous**   + **Working with Promises** * **State Management**   + **Cookies using $cookie, $cookieStore**   + **Caching using $cacheFactory**   + **State Management using Services** * **Creating Custom Directives**   + **Component directive**   + **Decorator directive**   + **Restrict, template, controller attributes**   + **Shared Scope**   + **Inherited Scope**   + **Isolated Scope**   + **Link, Pre link and post link function** * **Forms and Validations**   + **$error**   + **Creating validators and Async validatos** * **Animations** * **Unit testing using Jasmine Framework**   + **Using ngMock**   + **Testing a service**   + **Testing a controller** * **Creating a Sample SPA project** | |
| **http://www.pragimtech.com/Images/ArrowPointer.gif** | **Node JS** |
| * **Node JS Introduction** * **Environment setup** * **NPM** * **Callback methods** * **Event loops** * **Event emitters** * **Streams** * **Buffers** * **File system** * **Request module** * **Express** * **Rest Services/Web API** | |