

## Contact Info:

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## Advanced PHP Framework Codeigniter

Modules	Topics
HTML	<ul style="list-style-type: none"><li>❖ Introduction to HTML5</li><li>❖ Laying out a Page with HTML5</li><li>❖ Page Structure- New HTML5 Structural Tags- Page Simplification</li><li>❖ HTML5 - How We Got Here<ol style="list-style-type: none"><li>1.The Problems HTML 4 Addresses- The Problems XHTML Addresses- The New More Flexible Approach of HTML5 - Paving the Cowpaths- New Features of HTML5- The HTML5 Spec(s)- Current State of Browser Support.</li></ol></li><li>❖ Sections and Articles<ol style="list-style-type: none"><li>1. The section Tag- The article Tag- Outlining- Accessibility</li></ol></li><li>❖ HTML5 Audio and Video<ol style="list-style-type: none"><li>1. Supported Media Types- The audio Element (Audio Formats, Multiple Sources, Audio Tag Attributes, Getting and Creating Audio Files)- The video Element (Video Tag Attributes, Creating and Converting Video Files)- Accessibility- Scripting Media Elements- Dealing with Non-Supporting Browsers.</li></ol></li><li>❖ HTML5 Forms<ol style="list-style-type: none"><li>1. Modernizer- New Input Types (search, tel, url and email, date/time input types, number, range, min, max, and step attributes, color).</li><li>2. autocomplete- novalidate- datalist- progress and meter.</li></ol></li><li>❖ HTML5 New Form Attributes<ol style="list-style-type: none"><li>1. Autocomplete- novalidate- datalist- progress and meter.</li><li>2. required- placeholder- autofocus- autocomplete- form- pattern.</li></ol></li><li>❖ HTML5 Web Storage<ol style="list-style-type: none"><li>1.Overview of HTML5 Web Storage- Browser Support- Local Storage- Session Storage- Prefixing your Keys- Web Database Storage- Indexed Database.</li></ol></li><li>❖ API</li><li>❖ HTML5 Canvas<ol style="list-style-type: none"><li>1.Getting Started with Canvas- o Drawing Lines (Multiple Sub-Paths, The Path Drawing Process, The fill() Method)- Color and Transparency- Rectangles- Circles and Arcs- Quadratic and Bezier Curves- Images (drawImage() – Basic, drawImage() – Sprites,)- Text</li></ol></li></ul>
CSS	<ul style="list-style-type: none"><li>❖ Understanding CSS3<ol style="list-style-type: none"><li>1.Understanding CSS3 Terminology- Adding Rules to a Style Sheet- Adding Selectors- Working with Multiple Declarations- Working with Style Sheets- Embedding a Style Sheet- Importing an External Style Sheet- Importing Multiple Style Sheets- Linking to an External Style Sheet- Managing Style Sheets.</li></ol></li><li>❖ Selectors and the Cascade</li></ul>

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CSS	<p>1. Understanding Selectors- Using ID Selectors- Using Class Selectors- Using Grouped Selectors- Using Descendant Selectors- Looking for the Sources of Styles- Resolving Style Conflicts with Specificity- Using the !important Declaration- Understanding Inheritance- Revealing Un-styled Documents- Applying User Style Sheets.</p> <p>❖ <b>Selectors and the Cascade</b></p> <p>1. Understanding Selectors- Using ID Selectors- Using Class Selectors- Using Grouped Selectors- Using Descendant Selectors- Looking for the Sources of Styles- Resolving Style Conflicts with Specificity- Using the !important Declaration- Understanding Inheritance- Revealing Un-styled Documents- Applying User Style Sheets</p> <p>❖ <b>Using CSS3 to Affect Page Layout</b></p> <p>1. Introducing the CSS3 Box Model- Creating Simple Floats- Using Floats for Page Layout- Fixing Column Drop- Clearing Essentials- Containing Floats- Displaying Elements.</p> <p>❖ <b>Setting Foreground and Background Properties</b></p> <p>1. Adding Foreground Colors- Adding Color to Background Elements- Adding Background Images- Repeating Background Images- Positioning Background Images- Using the Background Shorthand Declaration.</p> <p>❖ <b>Using Margins and Borders to Create Whitespace and Separation</b></p> <p>1. Understanding Margins- Adding Borders- Implementing Padding- Using Negative Margins- Collapsing Margins.</p> <p>❖ <b>Styling Tables</b></p> <p>1. Styling Tables and Captions- Styling Table Cells- Styling Column Classes- Styling Links in Table Cells.</p> <p>❖ <b>Styling for Print</b></p> <p>1. Styling for Specific Mediums- Creating a Print Style Sheet- Hiding Elements for Print- Styling for Print- Applying Complex Styling for Print- Creating a Footer</p> <p>❖ <b>Bringing It All Together</b></p> <p>1. Working with Text Fragments- Setting Global Styles- Defining Masthead and Navbar Colors- Laying Out the Navbar- Using Columns- Setting Content Styles- Starting the Sidebar- Creating the Sidebar Boxes- Completing the Sidebar- Styling the Table- Creating the Footer.</p>
Javascript	<p>❖ <b>JavaScript language fundamentals</b></p> <p>1. Statements- Variables and data types- Operators (for both numbers and strings)- Conditionals (if-else if-else and switch-case)- Loops (while, do-while, for)- Functions.</p> <p>❖ <b>Understanding JavaScript objects</b></p> <p>1. The role of objects in JavaScript programming- Working with methods and properties- The JavaScript object hierarchy- The implicit window object- Event handlers.</p> <p>❖ <b>JavaScript with forms</b></p>

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## Javascript & PHP

1. How forms fit into the JavaScript DOM- Setting focus on a specific field- Blocking a field from being edited- Setting field values based on user input- Basic validation: requiring field values to be filled in- Handling calculations within forms

### ❖ JavaScript with links and images.

1. Using onMouseOver and onMouseOut to detect the presence of the mouse- Using onClick to process clicks on hyperlinks- Having hyperlinks call functions via javascript: URLs- Conditionally navigating the user to a page when they click a link- Dynamically swapping one or more images on a page based on the position of the mouse.

### ❖ JavaScript for navigation

1. Overview of the history and location objects- Building a jump menu- Navigating the user to a specific page based on their input in a form.

### ❖ JavaScript for pop-up help

1. Pros and cons of having JavaScript open another window- Generating and sizing a new (child) window via JavaScript- Communication between the child window and the parent window- Implementing attractive pop-up help or information windows using JavaScript.

### ❖ The Document Object Model

1. The Legacy DOM- The W3C DOM Standard- Traversing the DOM Tree- Manipulating DOM Elements.

### ❖ Object Oriented PHP Basics

1. Object Oriented PHP role in the WWW
2. The php.ini File.
3. Basic PHP Syntax.
4. PHP Tags- PHP Statements and Whitespace- Comments- PHP Functions- Hello World!.
5. Variable Types- Variable Names (Identifiers)- Variable Scope- Superglobals- Constants.
6. PHP Operators

### ❖ Flow Control

1. Conditional Processing
2. If Conditions
3. Loops
4. while- do...while- for- break and continue

### ❖ Arrays

1. Enumerated Arrays
2. Initializing Arrays- Appending to an Array- Reading from Arrays- Looping through Arrays
3. Associative Arrays
4. Initializing Associative Arrays- Reading from Associative Arrays- Looping through Associative Arrays- Superglobal Arrays
5. Two-dimensional Arrays
6. Reading from Two-dimensional Arrays- Looping through Two-dimensional Arrays
7. Array Manipulation Functions

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## PHP

### ❖ HTML and CSS for Object Oriented PHP

1. Links- Images- Tables- Lists- Forms- Frames- Doctypes- Head, Meta- URLs- Webserver
2. Syntax- Id & Class- Backgrounds, Text, Fonts- Tables, Border- Outline, Margin, Padding- Positioning, Align- Image, Media Types- Attribute Selectors.

### ❖ String Manipulation

1. Formatting Strings
2. Concatenation- String Manipulation Functions- Examples of String Functions
3. Magic Quotes
4. `magic_quotes_gpc`- `magic_quotes_runtime`- Recommendation on Magic Quotes

### ❖ Reusing Code and Writing Functions

1. Including Files
2. `require`- `require_once`- `auto_prepend_file` and `auto_append_file`
3. User Functions
4. Defining and Calling Functions- Variable Scope- By Reference vs. By Value
5. Form Processing
6. Variable Scope

### ❖ Basic PHP with Framework

1. About PHP & MySQL
2. Advantage of using Framework
3. Introducing CodeIgniter Framework
4. Create first project with CodeIgniter Framework

### ❖ CodeIgniter Framework - Basic DB & Client Side Validation

1. Active Record Class:
2. Insert Data
3. Client Side Validation
4. RegExp

### ❖ CodeIgniter Framework - Server Side Validation & Image Verification

1. Server side validation
2. Captcha image verification

### ❖ CodeIgniter Framework - Advanced Database with Session & Email System

1. Active Record Class:
2. Selecting Data
3. Session
4. Email system

### ❖ DB Normalization

1. Active Record Class:
2. Method Chaining- Deleting Data
3. Database Normalization

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	<ul style="list-style-type: none"><li>❖ <b>DB Relationship &amp; Model Description</b><ul style="list-style-type: none"><li>1. Active Record Class:</li><li>2. Updating Data</li><li>3. Database relationship</li><li>4. Database Model Description</li></ul></li><li>❖ <b>Advanced PHP Framework with Methods, Classes &amp; Cooke</b><ul style="list-style-type: none"><li>1. Basic database design concept</li><li>2. CodeIgniter Methods</li><li>3. CodeIgniter Classes</li><li>4. Cooke</li></ul></li><li>❖ <b>CodeIgniter Framework - SSL, Email Manager</b><ul style="list-style-type: none"><li>1. Lecture on secure path SSL</li><li>2. Email Manager</li></ul></li><li>❖ <b>CodeIgniter Framework - File Upload &amp; Online Payment Method</b><ul style="list-style-type: none"><li>1. Include file &amp; file upload</li><li>2. PayPal Standard</li><li>3. Authorize.net</li></ul></li></ul>
Ajax	<ul style="list-style-type: none"><li>❖ <b>Ajax Basics</b><ul style="list-style-type: none"><li>1. HTTP Request and Response Fundamentals</li><li>2. The XMLHttpRequest Object</li><li>3. XMLHttpRequest Methods</li><li>4. XMLHttpRequest Properties</li><li>5. Cross-Browser Usage</li><li>6. Sending a Request to the Server</li><li>7. Basic Ajax Example</li></ul></li><li>❖ <b>Ajax with server side scripting language</b><ul style="list-style-type: none"><li>1. Bringing in the Ajax: GET vs. POST</li><li>2. Passing Values</li><li>3. Client-Driven Communication, Server-Side Processing</li><li>4. Basic Examples</li><li>5. Expanding and Contracting Content</li><li>6. Auto-Complete</li><li>7. Form Validation</li><li>8. Tool Tips</li></ul></li><li>❖ <b>jQuery Basics with Example &amp; Selectors</b><ul style="list-style-type: none"><li>1. About jQuery</li><li>2. How jQuery Works</li><li>3. jQuery: The Basics</li><li>4. Launching Code and Complete Examples</li><li>5. Using selectors and events</li><li>6. Selectors</li><li>7. Basics &amp; Hierarchy</li><li>8. Basic, Content, Visibility, Attribute &amp; Child Filters</li></ul></li></ul>

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Ajax	9.Forms & Form Filters
Project Day: One	<ul style="list-style-type: none"><li>❖ Building a Inventory System – day one</li><li>1. Home – Text Box</li><li>2. Calendar – Add Event</li><li>3. Calendar - Add most important things</li><li>4. Calendar - Follow-up</li><li>5. Calendar – Week view</li><li>6. Email</li></ul>
Project Day: Two	<ul style="list-style-type: none"><li>❖ Building a Inventory System – day two</li><li>1. Customers - View customers</li><li>2. Customers - View contacts</li><li>3. Customers – Add new</li><li>4. Customers – Import Customers</li><li>5. Customers - Tell a friend</li></ul>
Project Day: Three	<ul style="list-style-type: none"><li>❖ Building a Inventory System – day three</li><li>1. My Account - My profile</li><li>2. My Account – Change Password</li><li>3. My Account – Cancel Membership</li><li>4. My Account - Submit testimonials</li><li>5. My Account - Submit suggestions</li><li>6. My Account - Submit tips</li><li>7. My Account - Tell a friend</li><li>8. My Account – Download Brochure</li></ul>
Project Day: Four	<ul style="list-style-type: none"><li>❖ Building a Inventory System – day four</li><li>1. Inventory – My Inventory</li><li>2. Inventory – My Inventory: Personal Product</li><li>3. Invoices – View Invoices</li><li>4. Invoices – Create Invoice</li></ul>
Project Day: Five	<ul style="list-style-type: none"><li>❖ Building a Inventory System – day five</li><li>1. Expenses – Expenses</li><li>2. Expenses – Income</li><li>3. Expenses – Add Income</li></ul>