

Web Development

With Bootstrap, PHP & Wordpress

Curriculum

We deliver all our courses as Corporate Training as well if you are a group interested in the course, this option may be more advantageous for you.

Web Development with Bootstrap, PHP & WordPress

Course Outline for HTML, CSS, Bootstrap, JavaScript, jQuery, PHP, MySQL, WordPress with Live Project & cPanel Tutorial.

Day 1	Getting Started with HTML	The State Of Browser Support Feature Detection Support For Legacy Browsers <ul style="list-style-type: none">• Graceful Degradation Emulation Developer Tools
Day 2	Structure of a Web Page	HTML5 DOCTYPE Page Encoding HTML5 Markup <ul style="list-style-type: none">• New And Updated Elements• Structural Elements• New Attributes• Deprecated Elements And Attributes HTML5 And CSS3 -Browser Support
Day 3	Forms	What Are The Needs For Web Applications? Current Solutions New Input Types New Attributes Form Validation Browser Support
Day 4	Audio & Video	The State of Web Audio And Video Based On Plug-in The State Of Audio And Video Codec (e.g. H.264, WebM etc.) <ul style="list-style-type: none">• Video/Audio Codec And Browser Support New Audio/Video Markup Attributes And Methods Understanding Audio/Video Events Customizing Audio/Video Controls
Day 5	Revision	

Day 6	Test	
Day 7	HTML5 Offline Applications	The Manifest File
		Browser Support
Day 8	CSS Introduction	CSS Introduction CSS Syntax CSS ID & Class CSS How
Day 9	CSS Styling	Styling Backgrounds Styling Text Styling Fonts Styling Links Styling Lists Styling Tables CSS Border CSS Outline CSS Margin CSS Padding
	CSS Box Model	
Day 10	CSS Advanced	CSS Grouping/Nesting CSS Dimension CSS Display CSS Positioning CSS Align CSS Pseudo-Class CSS Pseudo-elements CSS Navigation Bar
Day 11	CSS Advanced Images	CSS Image Gallery CSS Image Opacity CSS Image Sprites CSS Media Types

		CSS Attribute Selectors
Day 12	Bootstrap Introduction	Exploring Bootstrap's grid system Bootstrap basic navigation systems Bootstrap built-in CSS styling
Day 13	Navigation Bar	Making your navigation bar responsive Image carousel Dropdown menus
Day 14	Working with LESS	Modal windows Installing & working with SimpLESS for working with LESS files
Day 15	Modifying LESS	Understanding Bootstrap's LESS files Modifying LESS files
Day 16	Creating responsive website with Bootstrap	Creating one-column and two-column grid with Bootstrap Creating Fluid Responsive Layout With Bootstrap
Day 17	Introduction Variables and Operators	Simple Addition Fun with Text Combining Text and Number Favourite Language, Again What is a Variable? Your Name Let's make a difference Numbers in Variables Changing Variable Values More on Assignment Equality What's Your Type? Empty Cans, Empty Variables Increment Operator Adding Numbers, Again Another Addition Operator
Day 18	Dive into Strings	What are Strings Combining Strings Length of a string Selecting Characters Substrings Change to Upper Case What is your Index? Reversing a String What's the Secret?
Day 19	Functions	Simple Addition Function Division Problem Capitalize the first letter

		<ul style="list-style-type: none"> Capitalize Names Square a Number Sum of Squares Area of Triangle Just Came to Say Hello Global Variables
Day 20	Control Structures	<ul style="list-style-type: none"> Max of Two Best of Three Doesn't JavaScript Rock? Are you Chuck Norris? Find the Number Five Letter Palindrome FizzBuzz Nested If Else Statements
Day 21	Loops	<ul style="list-style-type: none"> Add Them up Sum Odd Numbers Auto Correct, kind of Comparing Strings Word Count
	Arrays	<ul style="list-style-type: none"> Pushing Arrays Every Other One First and Last Reverse Swapping Range Words If and Only if Delete Free E-mails
Day 22	JavaScript Summary	<ul style="list-style-type: none"> Getting started Running Code Types Operators Conditional Code Loops Reserved Words Arrays Objects Functions Testing Type The "This" Keyword Scope Closure
Day 23	jQuery	<ul style="list-style-type: none"> How jQuery Works Additional jQuery Support

Using jQuery Core

\$ vs \$()
\$(document).ready()
Avoiding conflicts with other libraries
Attributes
Selecting Elements
Working with Selections
Manipulating Elements
The jQuery Object
Traversing
CSS, Styling & Dimensions
Data Methods
Utility Methods
Iterating over jQuery and non-jQuery Objects
Using jQuery's .index() function

Day 24

Events

jQuery Event Basics
Event Helpers
Introducing Events
Handling Events
Inside the Event Handling Function
Understanding Event Delegation
Triggering Event Handlers
History of jQuery Events
Introducing Custom Events
jQuery Event Extensions

Day 25

Effects

Introduction to Events
Custom Effects with .animate()
Queue & Dequeue Explained
The uses of jQuery .queue() and .dequeue()

Ajax

Key Concepts
jQuery's Ajax related methods
Ajax and forms
Working with JSONP
Ajax Events

Day 26

Plugins

Finding & Evaluating Plugins
How to create a basic Plugin
Advanced Plugin Concepts
Writing Stateful Plugins with the jQuery
UI Widget Factory
Append outside of Loops
Cache Length during Loops
Detach elements to work with them

		<p>Don't act on Absent Elements</p> <p>Optimise Selectors</p> <p>Use Stylesheets for changing CSS on many elements</p> <p>Don't treat jQuery as a black box</p>
Day 27	Code Organisation	<p>Code Organisation Concepts</p> <p>Beware Anonymous functions</p> <p>Keep things DRY</p> <p>Feature & Browser Detection</p> <p>jQuery Deferreds</p> <p>Deferreds examples</p>
Day 28	jQuery UI	<p>Getting started with jQuery UI</p> <p>How jQuery UI works</p> <p>Theming jQuery UI</p> <p>i) Using jQuery UI themeroller</p> <p>ii) jQuery UI CSS Framework API</p> <p>iii) How to write a Theme</p> <p>Widget Factory</p> <p>Extending Widgets with the Widget Factory</p> <p>Widget Method Invocation</p> <p>Why use the widget factory</p> <p>How to use the widget factory</p>
Day 29	Effects	<p>Introduction to Events</p> <p>Custom Effects with .animate()</p> <p>Queue & Dequeue Explained</p> <p>The uses of jQuery .queue() and .dequeue()</p>
Day 30	PHP Basics	<p>How PHP Works</p> <p>The php.ini file</p> <p>Basic PHP Syntax</p> <p>PHP Tags</p> <p>PHP Statement and Whitespace</p> <p>Comments</p> <p>PHP Functions</p> <p>Hello World!</p>
Day 31	PHP Basics	<p>Variables</p> <p>Variable Types</p> <p>Variable Names (Identifiers)</p> <p>Type Strength</p> <p>Hello Variables!</p> <p>Variable Scope</p> <p>Superglobals</p> <p>Constants</p> <p>Variable-Testing and Manipulation Functions</p>

		PHP Operators programming in Industry Creating Dynamic Pages Single Quotes vs. Double Quotes Hello World
Day 32	Flow Control	Conditional Processing If conditions Loops While Do.....While For Break and Continue
Day 33	Arrays	Enumerated Arrays Initialising Arrays Appending to an Array Reading from Arrays Looping through Arrays Associative Arrays Initialising Associative Arrays Reading from Associative Arrays Looping through Associative Arrays Superglobal Arrays Two-dimensional Arrays Reading from Two-dimensional Arrays Looping through Two-dimensional Arrays Array Manipulation Functions
Day 34	PHP and HTML Forms	HTML Forms How HTML Forms Work A Sample HTML Form Form Variables
Day 35	String Manipulation	Formatting Strings Concatenation String Manipulations Functions Examples of String Functions Magic Quotes Magic Quotes GPC Magic Quotes Runtime Recommendation on Magic Quotes
Day 36	Reusing Code and Writing	Including Files

	Functions	<p>Require</p> <p>Require once</p> <p>Auto prepend file and auto append file</p> <p>User Functions</p> <p>Defining and calling functions</p> <p>Default Values</p> <p>Variable Scope</p> <p>By reference vs. By Value</p> <p>Form Processing</p> <p>Code Organisation</p>
Day 37	MySQL Simple SELECTs	<p>Introduction to the Northwind Database</p> <p>Some Basics</p> <p>Comments</p> <p>Whitespace and Semi-colons</p> <p>Case Sensitivity</p> <p>SELECTing All columns in All Rows</p> <p>SELECTing specific columns</p> <p>Sorting Records</p> <p>The Where clause and Operator Symbols</p> <p>The WHERE clause and Operator Words</p> <p>Checking Multiple conditions</p>
Day 38	Subqueries, Joins and Unions	<p>Subqueries</p> <p>Joins</p> <p>Table Aliases</p> <p>Multi-table Joins</p> <p>Outer Joins</p> <p>Unions</p> <p>UNION ALL</p> <p>UNION Rules</p>
Day 39	Inserting, Updating and Deleting Records Managing Data	<p>INSERT</p> <p>UPDATE</p> <p>DELETE</p> <p>Querying a Database</p> <p>MySQL Overview</p> <p>MySQL Methods and Properties</p> <p>Inserting and Updating Records</p> <p>MySQL Prepared Statements</p>
Day 40	PEAR:DB	<p>Advantages and Disadvantages of PEAR Database</p> <p>Why use a database abstraction Layer?</p> <p>When not to use a database abstraction layer</p> <p>Why use a database abstraction layer</p> <p>A Database less login form</p>

Authentication with PHP and SQL

Day 41	Regular Expressions	Perl Compatible regular expressions functions Preg_match() Preg_replace() Regular expression tester Regular expression syntax Start and End (^\$) Number of Occurrences (? + * {}) Common Characters (\d \D \w \W \s \S) Grouping ([]) Negation (^) Subpatterns (()) Alternatives () Escape Character (\) Form validation functions with regular expressions
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Day 42	Session control and cookies	Sessions Configuring Sessions Session Functions Mail() Shortcomings of mail()
	Sending Email with PHP	PHPMailer

Day 43	File System Management	Opening a file Reading from a file Writing to a file File locking Uploading files via an HTML form Getting file information More file functions Directory functions Getting a directory listing
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Day 44	PHP Advanced	Building a Class
	Object Oriented PHP	Constructors and Destructors Working with Properties and Functions Private, Protected, Public modifiers Inheritance Interfaces

Day 45	PHP XML Support	Simple XML Object Executing XPath Queries DOM Interoperability Using XPath
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		XSLT and PHP
Day 46	PHP Web Services	<ul style="list-style-type: none"> Web Services Technology Stack Web Services with PHP Working with PHP and WSDL PHP and SOAP Debugging Web Services
Day 47	RESTful Web Services with PHP	<ul style="list-style-type: none"> REST vs. SOAP Consuming Services Creating Services Debugging RESTful Web Services
Day 48	Ajax with PHP	<ul style="list-style-type: none"> Ajax Overview Ajax on the server Ajax on the client JSON, Ajax and PHP
Day 49	Extending PHP with PEAR	<ul style="list-style-type: none"> Finding packages on PEAR Installing PEAR packages Updating PEAR packages Uninstalling PEAR packages PECL
	PHP and Security	<ul style="list-style-type: none"> General PHP security Data Validation Protecting against SQL injection Thwarting Cross-site Scripting Sensitive Data Management
Day 50	PHP Best Practises	<ul style="list-style-type: none"> Code Management Code Style Documentation Security Unit Testing
Day 51	WordPress WordPress 3.8 Essentials	<ul style="list-style-type: none"> Getting to know WordPress Getting started with WordPress Self-Hosting Starting WordPress for the first time Setting up your user profile Creating Posts Creating Pages Managing Images, Video and other media
Day 52	WordPress 3.8 Essentials	<ul style="list-style-type: none"> Extending WordPress functionality with Plug-ins Working with Themes WordPress behind the scenes The Twenty eleven (default) theme The appearance tab WordPress Settings Exporting and Importing WordPress content

		WordPress site maintenance and security
Day 53	Creating and Editing WordPress Themes	Building a WordPress Theme Beyond the Theme
Day 54	Creating custom widgets and plug-ins with PHP	Understanding WordPress Plug-in Basics Building a WordPress Plug-in Using and Creating WordPress Widgets Plug-in Options and Administration Using the WordPress Database The Loop, Posts and Pages The WordPress Plug-in Lifecycle Security and Extensibility
Day 55	Training in cPanel	Training in cPanel
Day 56 to 60	Live Project	Live Project
