



# PHP SYLLABUS

## HTML

### Introduction

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- The World Wide Web (WWW)
- HTML History
- Hypertext and Hypertext Markup Language

### HTML Documents

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- Dividing the document into 2 parts.
- Headers
- Body
- Tags
- Format
- Representing 2 types of tag (odd and even)
- Elements of an HTML Document
- Text Elements
- Tag Elements
- Special Character elements

## Structural elements of HTML documents

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- Header tags
- Body tags.
- Paragraphs
- Titles

### Lists

- Numbered list
- Non-Numbered lists

### Definition lists

## Formatting HTML Documents

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- Logical styles
- (Source code, text enhancements, variables)
- Physical Styles
- (Bold, Italic, underlined, crossed)

## Managing images in html

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- Image format
- (Quality, size, type ...)
- Importing images
- (Scanners)
- Tags used to insert images
- Frames

## Tables in HTML documents

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- Tags used in table definition
- Tags used for border thickness
- Tags used for cell spacing
- Tags used for table size
- Dividing table with lines
- Dividing lines with cells
- Cell types
- Titles cells
- Data cells

## Hypertext and Link in HTML Documents

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- URL/FTP/HTTP
- Types of links.
- Internal Links
- External Links
- Link Tags
- Links with images and buttons
- Links that send email messages

## Special effects in HTML documents

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- Text fonts
- Sensitive Images
- Tip tables

- Page background
- Variable
- Fixed
- Rotating messages (Marquee)

## PHP

### PHP Basics

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- Overview of PHP Structure and Syntax
- Creating Your First Program
- Using HTML to Spice Up Your Pages
- Integrating HTML with PHP
- Considerations with HTML inside PHP
- Using Constants and Variables to Add Functionality
- Overview of Constants
- Overview of Variables
- Operators
- Arithmetic Operators
- Relational Operators
- Logical Operators
- Assignment Operators
- Short Hand Operators
- Increment / Decrement Operators

- Conditional Operators
- Control Structures
- Conditional Statements
- If Statement
- If ... else
- Nested If
- Else If Ladder
- Switch Statement
- Iteration / Looping Statements
- For Loop
- While Loop
- Do ..... While

## String Functions

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addslashes() , addslashes() , chr() , convert\_uudecode()  
, convert\_uuencode() , crypt() , echo() , explode() ,  
implode() , join() , ltrim() , number\_format() , print()  
, printf() , rtrim() , str\_ireplace() , str\_pad() ,  
str\_repeat() , str\_replace() , str\_shuffle() , str\_split() ,  
str\_word\_count() , strcmp() , strchr() , strcmp() ,  
strlen() , strpos() , strrchr() , strrev() , strrpos() ,  
strtolower() , strtoupper() , substr() , trim() , ucfirst() ,  
ucwords()

## Math Functions

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`min()`, `max()`, `round()`, `ceil()`, `floor()`, `abs()`, `sqrt()`, `pow()`  
`number_format()`

## Dates and Times

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- Introduction
- Finding the Current Date and Time
- Converting Time and Date Parts to an Epoch Timestamp
- Printing a Date or Time in a Specified Format
- Finding the Difference of Two Dates
- Finding the Day in a Week, Month, or Year
- Validating a Date
- Parsing Dates and Times from Strings
- Adding to or Subtracting from a Date
- Calculating Time with Time Zones

## Arrays

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- Introduction
- Specifying an Array Not Beginning at Element
- Storing Multiple Elements Per Key in an Array
- Initializing an Array to a Range of Integers
- Iterating Through an Array
- Deleting Elements from an Array

- Changing Array Size
- Appending One Array to Another
- Turning an Array into a String
- Printing an Array with Commas
- Checking if a Key Is in an Array
- Checking if an Element Is in an Array
- Finding the Position of a Value in an Array
- Finding Elements That Pass a Certain Test
- Finding the Largest or Smallest Valued Element in an Array
- Reversing an Array
- Sorting an Array
- Sorting an Array by a Computable Field
- Sorting Multiple Arrays
- Sorting an Array Using a Method Instead of a Function
- Randomizing an Array
- Removing Duplicate Elements from an Array
- Applying a Function to Each Element in an Array
- Finding the Union, Intersection, or Difference of Two Arrays

## Functions

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- Introduction
- Accessing Function Parameters
- Setting Default Values for Function Parameters
- Passing Values by Reference
- Using Named Parameters
- Creating Functions That Take a Variable Number of Arguments
- Returning Values by Reference
- Returning More Than One Value
- Skipping Selected Return Values
- Returning Failure
- Calling Variable Functions
- Accessing a Global Variable Inside a Function

## Classes and Objects

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- Introduction
- Table of Contents | vii
- Download at BoykmaCom
- Instantiating Objects
- Defining Object Constructors
- Defining Object Destructors
- Implementing Access Control
- Preventing Changes to Classes and Methods
- Defining Object Stringification



- Specifying Interfaces
- Calling Methods on an Object Returned by Another Method
- Accessing Overridden Methods
- Using Method Polymorphism
- Defining Class Constants
- Defining Static Properties and Methods
- Controlling Object Serialization
- Autoloading Class Files upon Object Instantiation

## Security Redirection Methods & Form Elements Security

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- Configuration
- Session Security
- Cross-Site Scripting
- Email Validation
- Filter Input
- Sanitize Input

## Form

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- Introduction
- Processing Form Input
- Validating Form Input: Required Fields
- Validating Form Input: Numbers

- Validating Form Input: Email Addresses
- Validating Form Input: Drop-Down Menus
- Validating Form Input: Radio Buttons
- Validating Form Input: Checkboxes
- Validating Form Input: Dates and Times
- Validating Form Input: Credit Cards
- Preventing Cross-Site Scripting
- Working with Multipage Forms
- Redisplaying Forms with Inline Error Messages
- Guarding Against Multiple Submission of the Same Form
- Processing Uploaded Files
- Using Form Elements with Multiple Options

## Redirection Methods

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- Passing Information with Forms (POST , GET & REQUEST)
- Passing Variables with Sessions
- Passing Variables with Cookies

## Strings and Patterns

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- Quoting
- Matching
- Extracting
- Searching

- Replacing
- Formatting

## Using PHP with MySQL

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- Overview of MySQL Structure and Syntax
- MySQL Structure
- MySQL Syntax and Commands
- How PHP Fits with MySQL
- Connecting to the MySQL Server
- Looking at a Ready-Made Database
- Querying the Database
- Working with PHP and Arrays of Data: foreach
- A Tale of Two Tables
- Using MySQL Query Browser

## Web Features

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- GET and POST data
- Request
- Sessions
- Cookies
- HTTP Headers

## XML

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- Introduction
- Generating XML as a String

- Generating XML with the DOM
- Parsing Basic XML Documents
- Parsing Large XML Documents
- Extracting Information Using XPath

## Error Handling, Debugging, and Testing

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- Introduction
- Finding and Fixing Parse Errors
- Creating Your Own Exception Classes
- Using a Custom Error Handler

## Files

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- Introduction
- Creating or Opening a Local File
- Creating a Temporary File
- Reading a File into a String
- Counting Lines, Paragraphs, or Records in a File
- Processing Every Word in a File
- Picking a Random Line from a File

## Directories

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- Introduction
- Getting and Setting File Timestamps
- Getting File Information

- Changing File Permissions or Ownership
- Deleting a File
- Copying or Moving a File
- Processing All Files in a Directory
- Getting a List of Filenames Matching a Pattern
- Processing All Files in a Directory Recursively
- Making New Directories
- Removing a Directory and Its Contents
- Program: Web Server Directory Listing
- Program: Site Search