

Industry Demand Oriented

COURSE MODULE

For

PROFESSIONAL

WEB DEVELOPMENT

USING PHP & MYSQL

Edition February 2020

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Course Modules

Course Name	Professional Web Development Using PHP and MySQL
Course Duration	56 hours
Modules	9 [As per International Standard]
Sessions	28
Environment	Inclusive Learning Environment
Prerequisites	Basic Skills of Using Computer & Internet Browsing, Basic of Frontend Technology like HTML, CSS, JavaScript and jQuery, Basic Mathematical Conceptions
Outcomes	Being able to Develop a Dynamic Website using PHP and MySQL.
Mentor	Jafran Hasan

Unit Delivery Plan

Session 1		Date:
Session Title	Introduction	
Components	<ul style="list-style-type: none"> 1. Intro 2. Introduction 3. What is a Website and How Does It Work. 4. How to make decision, career opportunities. 	
Project		

Session 2		Date:
Session Title	Overview HTML5	
Components	<ul style="list-style-type: none"> 5. Basic HTML 6. HTML Tags, Elements and Attributes 7. Table & Nested Table 8. Anchor, Images 9. HTML Form 	
Project	Create an HTML Webpage	

Session 3		Date:
Session Title	Overview CSS3	
Components	<ul style="list-style-type: none"> 10. Basic CSS3 11. Selectors, Pseudo Selectors, Class, ID 12. Properties and Values 13. Colors and Backgrounds 14. Shapes, Margins, Padding, Borders, Radius 15. Layout, Responsive Design 16. Animation 17. Transition 18. Transform 	
Project	Style previous webpage using CSS3	

Session 4		Date:
Session Title	Overview jQuery	
Components	19. Basic JavaScript 20. Syntax, Basic Operators [Arithmetical] 21. Variables, Scopes 22. Condition [IF, SWITCH] 23. Loops [For, While, Do While] 24. Function, Arguments and Returns 25. JQuery Selectors 26. Working with HTML DOM	
Project	Create a jQuery Slider	

Session 5		Date:
Session Title	Introduction to PHP	
Components	1. Intro 2. What is PHP and How it Works 3. The Origin 4. Environment Setup [XAMMP] 5. First PHP Program 6. Basic Structure of PHP Code	
Project	Create a PHP File along with Names, Picture	

Session 6		Date:
Session Title	Variables	
Components	1. PHP Syntax 2. Assigning Values into Variable 3. Variables and Constants 4. Variable Scopes 5. String Delimiters 6. Concatenation	

	7. Unsetting Variables 8. Ninja Code
Project	Practice code of Variables

Session 7		Date:
Session Title	Data Types	
Components	1. Data Types 2. String 3. Integer 4. Float 5. Double 6. Boolean 7. Array 8. Object 9. Null 10. Basic Arithmetical Operators	
Project	Detecting the Data Types	

Session 8		Date:
Session Title	Array	
Components	1. Array 2. Elements 3. Key 4. Values 5. Indexed Array 6. Associative Array 7. Multidimensional Array	
Project	Create a multidimensional array using PHP	

Session 9		Date:
Session Title	Conditions	
Components	<ul style="list-style-type: none"> 1. Comparison Operators 2. If else 3. elseif 4. Switch Case 5. Advanced Ternary Operators 	
Project	Create a Result Sheet using php condition	

Session 10		Date:
Session Title	Loops	
Components	<ul style="list-style-type: none"> 1. Basic Loops 2. For Loop 3. While Loop 4. Do While Loop 5. Foreach Loop 	
Project	Practice code of PHP Loop	

Session 11		Date:
Session Title	Functions	
Components	<ul style="list-style-type: none"> 1. Basic Functions 2. Return vs Echo / Print 3. Arguments & Parameters 4. Recursive Function 	
Project	Create a function on which if you insert age of a young girl, it will return the marriage age availability.	

Session 12		Date:
Session Title	Form Request	
Components	<ul style="list-style-type: none"> 1. HTTP Form Request 2. Request Method 3. GET and POST 4. Sending Data through http request 5. Collecting Data from http request 6. Using Ajax 	
Project	Create PHP Login Form	

Session 13		Date:
Session Title	Form Handling	
Components	<ul style="list-style-type: none"> 1. Handling HTTP Request 2. Sanitizing Inputs 3. Filtering Inputs 4. Validating Form Inputs 	
Project	Create PHP Registration Form with Validation	

Session 14		Date:
Session Title	Popular Built-in Functions	
Components	<ul style="list-style-type: none"> 1. String Operation 2. Replace 3. Count Length 4. Regular Expression 5. Substr 6. Date 7. Time 8. Timezone 	

Project	Practice code of PHP Functions
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Session 15	Date:
Session Title	Basic File Operation
Components	<ol style="list-style-type: none"> 1. File Types 2. Check if File Exists 3. Check if Folder Exists 4. Creating Folder 5. Opening a File 6. Creating a File 7. Reading a File [Line by Line, Array] 8. Writing into a File 9. Include, require
Project	Create a file into Directory as your name and save the file by writing Hello World

Session 16	Date:
Session Title	Uploading a File [Advanced]
Components	<ol style="list-style-type: none"> 1. Uploading a File 2. Filtering and Validation 3. Restriction 4. File Size
Project	Upload a duplicate file with current timestamp.

Session 17	Date:
Session Title	PHP Super Global Variables

Components	<ol style="list-style-type: none"> 1. Super global 2. Using Session 3. Using Cookies 4. Server Info
Project	Practice code of Superglobals

Session 18		Date:
Session Title	Object Oriented Programming Conception	
Components	<ol style="list-style-type: none"> 1. Intro 2. What is OOP 3. Class 4. Properties 5. Member Variables 6. Method 7. Objects 8. Instance 	
Project	Practice code of OOP	

Session 19		Date:
Session Title	Inheritance, Static and Non-static Class	
Components	<ol style="list-style-type: none"> 1. Inheritance 2. Parent 3. Children 4. Static Class 5. Non-static Class 6. Abstract Class 	
Project	Practice code of OOP	

Session 20		Date:
Session Title	Magic Method	
Components	<ol style="list-style-type: none"> 1. __call 2. __callStatic 3. Access Method [Public, Private and Static] 4. Auto loader 	
Project	Practice code of OOP	

Session 21		Date:
Session Title	MySQL Database	
Components	<ol style="list-style-type: none"> 1. Establish New Connection 2. Databases 3. Tables 4. Rows 5. Columns 6. Creating Databases 7. Creating Tables 8. Creating Rows 9. Creating Columns 10. Unique and Foreign Key 	
Project	Create Table and Columns	

Session 22		Date:
Session Title	MySQL Database Operation	
Components	<ol style="list-style-type: none"> 1. Basic Data Operation 2. WHERE 3. INSERT 4. UPDATE 5. SELECT 6. DELETE 	

	7. Order, Orderby, Limit, Offset [Basic Query]
Project	Create dynamic login page using php and mysql.

Session 23		Date:
Session Title	Website Development	
Components	1. Development of Website 2. Static to Dynamic Website	
Project	Project	

Session 24		Date:
Session Title	Website Development	
Components	1. Static to Dynamic Website	
Project	Project	

Session 25		Date:
Session Title	Software Architecture	
Components	1. Software Architecture 2. Development Structure 3. Understanding MVC 4. Laravel Installation 5. Route 6. Controller 7. Method 8. Views 9. Model 10. Eloquent	
Project	Project	

Session 26		Date:
Session Title	Deployment and VCS	
Components	<ul style="list-style-type: none"> 1. Deployment on Live Server 2. Awesome usage of FTP 3. Git Version Controlling 	
Project	Project	

Session 27		Date:
Session Title	Freelance & Marketplace	
Components	<ul style="list-style-type: none"> 1. Fiverr.com 2. Freelancer.com 3. Professional Skill Enhance Program 4. International Standard 5. Best Structure of PHP Code 	
Project	Fiverr GIG and Freelancer Content	

Session 28		Date:
Session Title	Total Overview and Assessment	
Components	<ul style="list-style-type: none"> 1. Total Overview and Assessment 2. Final Project 	