

## **Advance Web Application Development**

Module Title	Learning Units
Orientation/Course	Job market
Introduction	Course Applications
	Institute/work ethics
Overview of	<ul> <li>Describe Domain Name with respect to the most common TLDs</li> </ul>
Domain Name, Web	and their importance
Hosting and Basic	<ul> <li>Describe ICANN and demonstrate, how it works.</li> </ul>
Website	<ul> <li>Describe, how to register a domain name using any domain</li> </ul>
Structuring	registrar.
	<ul> <li>Describe Web Hosting, Types, Web Hosting Company, DNS and</li> </ul>
	Common Parameters of Web Hosting Account
	Describe Basic Website Structure
	<ul> <li>Design a Basic Static Web Page to print a single text line.</li> </ul>



## Webpage Designing with HTML Basics using Notepad

## Students are introduced to:

- Extensions of Web Pages (.html, .htm, .php .aspx )
- Basic Structuring of HTML based Web Page.
- Designing of HTML Web Page with Title Tag
- Designing of HTML Web Page with displaying Background
   Image
- Designing of HTML Web Page with displaying Inline Image/images
- Designing of HTML Web Page using inline styling of font, size and color
- Designing of HTML Web Page with embedding a YouTube video
- Designing of HTML Web Page with a table or multiple columns and rows.



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Webpage	Students are introduced to:	
Designing using	<ul> <li>Understanding of Dreamweaver software to create and</li> </ul>	
CSS and	manage html, php and dot net web pages	
JavaScript in	<ul> <li>Install Adobe Dreamweaver Software on the</li> </ul>	
Adobe	laptop/desktop	
Dreamweaver or	<ul> <li>Understanding of Microsoft Expression software to create</li> </ul>	
Microsoft	and manage html, php and dot net web pages	
Expression	<ul> <li>Install Microsoft Expression on laptop/desktop</li> </ul>	
	<ul> <li>Different webpage layouts (view) of Dreamweaver and</li> </ul>	
	Microsoft Expression code, design split.	
	<ul> <li>Understanding of Basic CSS</li> </ul>	
	<ul> <li>Understanding of Basic JavaScript</li> </ul>	
	<ul> <li>Define Basic Libraries</li> </ul>	
	<ul> <li>Design a webpage using Basic CSS and JavaScript as</li> </ul>	
	library files.	
	<ul> <li>Design a basic HTML Form with</li> </ul>	
	JavaScript Controls	
Designing a html-	Students are introduced to learn:	
based website of	<ul> <li>Designing a complete HTML based website of multiple web</li> </ul>	
Multiple	pages, using basic CSS and JavaScript files in	
Webpages with	Dreamweaver or Microsoft Expression	
CSS and	<ul> <li>Uploading the html website on Live Cloud Server / Web</li> </ul>	
JavaScript, using	Hosting	
Dreamweaver or	<ul> <li>Troubleshoot and resolve the</li> </ul>	
Microsoft	html website issue	
Expression		



	Students are introduced to:	
Introduction to	<ul> <li>Setup PHP on the local Machine.</li> </ul>	
PHP	Basic Structure of PHP	
F11 <b>F</b>	<ul> <li>Complete PHP Syntax and Programming Language Basics.</li> </ul>	
	<ul> <li>Handle Strings in Webpage with String Functions</li> </ul>	
	<ul> <li>Setup Apache Server Framework</li> </ul>	
	on the laptop/desktop	
	Setup Mysql Database on the laptop/desktop	
	Concept of already available complete packaged Linux	
	framework (Apache+PHP+Mysql) for	
	windows like xamp and wamp.	
Learn PHP	Students are introduced to:	
Variables and	<ul> <li>Define Variables and Constants.</li> </ul>	
Functions	<ul> <li>Write PHP program using Data Types - Strings, Numbers,</li> </ul>	
	Double, Boolean and null.	
	<ul> <li>Learn the basics of defining Functions, Passing</li> </ul>	
	Parameters	
	and Function Concepts.	
Learn PHP Arrays	Students are introduced to:	
and Loops	<ul> <li>Describe types of loops</li> </ul>	
	<ul> <li>Describe usage of different types of loops.</li> </ul>	
	<ul> <li>Write conditions and looping statements in PHP</li> </ul>	
	<ul> <li>Write conditions and looping statements in FTIF</li> <li>Describe Arrays, its types and their applications.</li> </ul>	
	<ul> <li>Handling Arrays in PHP.</li> </ul>	

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Design & Develop PHP based Website using Dreamweaver or Microsoft Expression	<ul> <li>Students are introduced to:</li> <li>Learn to organize the source code with Namespaces.</li> <li>Learn how to use PHP to handle HTML forms.</li> <li>Learn how to use PHP to validate HTML forms.</li> <li>Learn how to use object-oriented programming in PHP.</li> <li>Build Complete PHP based dynamic website using loops, functions, arrays and forms.</li> </ul>
Introduction to Basic Microsoft ASP.Net Development with Visual Studio and MS SQL Server	Students are introduced to:  Download and install Visual Studio  Download and Install Microsoft SQL Server  Understand the settings/preferences of Visual Studio  Understand the settings/preferences of MS SQL Server  Understand the purpose of web.config  Understand the concept of a code-behind file  Build a simple user interface using drag and drop
Learn how to connect MS SQL database with Asp.net Web Pages	<ul> <li>Students are introduced to: <ul> <li>Learn how to connect ASP.NET to SQL Server and view the results live</li> <li>Learn how to use the List View with Paging and SQL Server.</li> <li>Learn how to update, delete and update data from a web page with SQL Server</li> <li>Learn how to interact with databases using AJAX</li> </ul> </li> </ul>
Learn how to generate text area, drop downs, radio button, lists and tables, dynamically	Students are introduced to:  - Create and manage text area, drop downs, radio buttons, lists and tables in web page using visual studio and generate asp.net web page/s.

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Learn How to Create, Compile and Build a .Net Web project and run it in a web	Understand the concept of an object and its properties
browser	<ul> <li>Create a .net web project and run it in a browser, and examine the html code in a browser</li> <li>Create a complete dynamic web project in visual studio with connection of MS SQL Database.</li> <li>Compile and Build the Source code of asp.net and run the web page in any browser</li> </ul>
Introduction to WordPress and Xamp.	<ul> <li>Students are introduced to: <ul> <li>WordPress and its directory structure.</li> <li>Download, Install and Configure xamp on your laptop or desktop</li> <li>Start Xamp services and Create mysql database using phpMyAdmin of xamp</li> <li>Download, Install and Configure WordPress on your PC, so you can learn without having to pay hosting or domain fees, using xamp.</li> <li>Understand the main features of WordPress</li> </ul> </li> </ul>

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Customize	Students are introduced to:	
WordPress Website	<ul> <li>Navigate around the WordPress dashboard, know what</li> </ul>	
	everything does and how to use it.	
	<ul> <li>Create pages and posts, and most importantly, know the</li> </ul>	
	difference between the two.	
	<ul> <li>Correctly use post categories and tags and understand why</li> </ul>	
	these can cause you problems at the search engines if used	
	incorrectly.	
	<ul> <li>Create custom menus and navigation systems that both</li> </ul>	
	visitors and search engines will find useful.	
	Create a static homepage useful for most websites, or a	
	blog like homepage useful for bloggers.	
Understand	Students are introduced to:	
plugins & themes	Find, Install, activate and configure any given WordPress plugins	
and how to	Find, Install, activate and configure any given WordPress	
find/install them	theme	
	Troubleshoot the errors and warnings.	
Secure and	Students are introduced to:	
Optimize	Know how to configure WordPress for best results	
WordPress	Protect their WordPress website from hackers and spammers	
Website	using given modules/plugins	
	Create a Responsive Website that looks good on any browser	
	Optimize WordPress Website with	
	relevant plugins /modules	
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Toron Control of the	
Deploying WordPress Website on cloud server / web hosting	Students are introduced to:  Getting the complete website backup from xamp (local machine)  Restoration of complete WordPress website backup on cloud server/web hosting  Connectivity of database with WordPress website file using wp- config file.  Correction of Permalinks/URLs
Understanding and Configuration of htaccess and php.ini file at web hosting	Students are introduced to:  Understanding of importance of htaccess file, its parameters and application  Understanding of importance of php.ini file, its parameters and their application
On-Page SEO	Students are introduced to:  • Understanding of On-Site SEO with respect to:  ○ Optimization of Page Title as per the google standards  ○ Optimization of Page Meta title as per the google standards
	<ul> <li>Optimization of Page Meta Description as per the Google         Standards         Optimization of Page Meta Tags and Keywords as per the google Standards.     </li> </ul>
Learn Google Search Console	Students are introduced to:  Describe the importance of google search console  Learn to add property in google search console

• Learn the importance of sitemap and generate Website

XML based sitemap using plugin or sitemap generating



	website and submit to Google Search Console		
	<ul> <li>Learn the importance of Robots.txt file, its parameters</li> </ul>		
	and generate or write a Robot.txt file and Submit to		
	Google Search Console		
	<ul> <li>Crawling and indexing web pages in google search console</li> </ul>		
	<ul> <li>Troubleshooting and fixing the web page errors.</li> </ul>		
	Students are introduced to:		
	<ul> <li>Describe the importance of Google Analytics</li> </ul>		
	<ul> <li>Adding property in google Analytics</li> </ul>		
	<ul> <li>Configuring Property and managing views in google</li> </ul>		
	analytics		
	Students are introduced to:		
3 <sup>rd</sup> Party	Describe APIs ( Application Programmers Interface ) and its		
Integration with	types with respect to its importance, configuration and		
WordPress Website	1		
	Describe, how to integrate any API with WordPress website		
	- ,		
E Commerce	Students are introduced to:		
Website designing	Describe E Commerce and its difference from		
and development	Conventional Commerce		
in WordPress	Describe major modules of E commerce website like inventory		
using	management system, order management system, delivery		
WooCommerce	management, payment methods and customer support		
	services.		
	Find, Install and Configure WooCommerce Plugin at		
	WordPress Website		
	Manage the WooCommerce settings as per the given criteria		



## Tasks For Certificate in Web Designing and Web Engineering

Task	Task	Description
No.		
1.	Find the career path  Work Ethics	<ul> <li>Prepare a career path related to your course and also highlight the emerging trends in the local as well as international market</li> <li>Generate a report on Institute work ethics and</li> </ul>
		professionalism related to your course
4.	Identify Top Level Domain Names, (TLDs), Web Hosting Companies and Structure of Basic HTML Web page in notepad Build an HTML web page with given basic parameters (tags)	<ul> <li>Prepare a list of top level domain names, web hosting companies and build a simple and basic HTML website with basic structure to print a single text line.</li> <li>Identify different web page extensions for html, php and asp.net.</li> <li>Build an HTML web page with background image, inline image, embedding youtube video, different columns and</li> </ul>
5.	Build an HTML web page with separate CSS and JavaScript file in Adobe Dreamweaver and	<ul> <li>rows, table and inline styling of font size and color in notepad</li> <li>Install Adobe Dreamweaver</li> <li>Install Microsoft Expression</li> <li>Demonstrate the settings/preferences in Adobe Dreamweaver</li> <li>Demonstrate the settings/preferences in Microsoft</li> </ul>
	Microsoft Expression	<ul> <li>Expression</li> <li>Demonstrate basic html libraries in the main web page</li> </ul>

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		Build a basic CSS file with basic (sample) stylings	
		code, call it in the main web page and	
		check its working	
		Build a basic JavaScript file with basic (sample) code, call	
		it in the main web page and check its working	
6.	Build a complete	Build a complete website of multiple (4-5) web pages,	
	HTML based	with main menu, styling and scripting through separate	
	website with 4-5	css and js files in Adobe Dreamweaver or Microsoft	
	web pages using	Expression	
	separate CSS and		
	JavaScript file in		
	Dreamweaver or		
	Microsoft		
	Expression		
7.	Setup PHP, Apache	Download and Install PHP (latest version ) on the	
	and MySQL	laptop/desktop	
	Environment on	<ul> <li>Download and install latest version of Apache on the</li> </ul>	
	Windows machine.	laptop/desktop	
		Setup MySQL database	
	Demonstrate basic	Build a sample webpage in PHP and run it on the	
	structure of PHP	installed Apache/php/MySQL environment	
	and build a sample		
	static		
	webpage in PHP		

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8.	Demonstrate PHP	Demonstrate PHP Variables and Constants
	Variables and their	<ul> <li>Build a webpage with writing a PHP program</li> </ul>
	usage	using Data Types - Strings, Numbers, Double,
		Boolean and null.
		<ul> <li>Use php function in the webpage.</li> </ul>
9.	Demonstrate Loops	Demonstrate different types of loops in PHP based
	and Arrays in PHP	webpage
	web page	Demonstrate different types of arrays in PHP based
		webpage
10	Build a complete	Build a complete static website of 4 to 5 web pages in
	static website of 4	PHP using php variables, functions, loops, arrays
	to 5 web pages in	using separate CSS and JavaScript files in Adobe
	PHP	Dreamweaver or Microsoft Expression
11.	Build a complete	Build a complete dynamic website of 4 to 5 web pages in
	dynamic website	PHP with mysql database, using php based web forms
	of 4 to 5 web	and their connectivity with the database
	pages in PHP with	, and the second
	Mysql	
12	Installation of	Demonstrate the installation of MS Visual Studio and
	MS Visual Studio	MS SQL Server and their different layouts.
	and MS SQL	Demonstrate the basic settings & preferences of MS
	Server	Visual Studio and MS SQL Server
13	Demonstrate the	Understand the purpose of web.config
	concept of	Understand the concept of a code-behind file
	web.config file	<ul> <li>Build a simple user interface using drag and drop.</li> </ul>
	build a simple user	- Dana a simple assi interiase asing aray and arop.
	interface in visual	
	studio	

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Create ms sql database using Sql server  Connect database with asp.net web pages using web.config  Demonstrate to generate text area, drop downs, radio button, lists and tables, dynamically  Create, Compile and Build an asp.net webpage with its connection with MS SQL database  Connection with MS SQL database  Download, Install and Configure  WordPress  Connection with MS SQL database  Create and manage text area, drop downs, radio buttons, lists and tables in asp.net web page using visual studio  Create and manage text area, drop downs, radio buttons, lists and tables in asp.net web page using visual studio  Create a net web project and run it in a browser, and examine the html code in a browser  Create a complete dynamic web project in visual studio with connection of MS SQL Database.  Compile and Build the Source code of asp.net and run the web page in any browser  Start Xamp Services and Create Mysql database using xamp via phpMyAdmin  Download, Install and Configure  WordPress	4 4	Demonstrata MO	Ouasta was and database well-up Out server
database	14		
Demonstrate how to update, delete and update data from a web page with SQL Server     Interact with MS SQL databases using AJAX in visual studio      Create and manage text area, drop downs, radio buttons, lists and tables, dynamically      Create, Compile and Build an asp.net webpage with its connection with MS SQL database      Create a .net web project and run it in a browser, and examine the html code in a browser     Create a complete dynamic web project in visual studio with connection of MS SQL Database.      Compile and Build the Source code of asp.net and run the web page in any browser      Download, Install and Configure     Xamp      Download, Install and Configure     Xamp      Download, Install and Configure     Xamp      Download and Install WordPress with Mysql database      Download and Install WordPress with Mysql database      Download and Install WordPress with Mysql database		SQL Server	<ul> <li>Connect database with asp.net web pages using</li> </ul>
asp.net web pages  data from a web page with SQL Server  Interact with MS SQL databases using AJAX in visual studio  Create and manage text area, drop downs, radio buttons, lists and tables in asp.net web page using visual studio  Create, Compile and Build an asp.net webpage with its connection with MS SQL database  Create a .net web project and run it in a browser, and examine the html code in a browser  Create a complete dynamic web project in visual studio with connection of MS SQL Database.  Compile and Build the Source code of asp.net and run the web page in any browser  Compile and Build the Source code of asp.net and run the web page in any browser  Download, Install and Configure Xamp  Download, Install and Configure Start Xamp Services and Create Mysql database using xamp via phpMyAdmin  Download and Install WordPress with Mysql database		database	web.config
Interact with MS SQL databases using AJAX in visual studio      Create and manage text area, drop downs, radio buttons, lists and tables in asp.net web page using visual studio      Create, Compile and Build an asp.net webpage with its connection with MS SQL database      Create a net web project and run it in a browser, and examine the html code in a browser      Create a complete dynamic web project in visual studio with connection of MS SQL Database.      Compile and Build the Source code of asp.net and run the web page in any browser      Compile and Build the Source code of asp.net and run the web page in any browser      Substitution      Download, Install and Configure xamp on your windows-based laptop or desktop      Start Xamp Services and Create Mysql database using xamp via phpMyAdmin      Download and Install WordPress with Mysql database		connection with	<ul> <li>Demonstrate how to update, delete and update</li> </ul>
visual studio  15 Demonstrate to generate text area, drop downs, radio buttons, lists and tables in asp.net web page using visual studio  16 Create, Compile and Build an asp.net webpage with its connection with MS SQL database  SQL database  17 Download, Install and Configure  Townload, Install and Configure  Demonstrate the concept of an object and its properties in visual studio  Create a .net web project and run it in a browser, and examine the html code in a browser  Create a complete dynamic web project in visual studio with connection of MS SQL Database.  Compile and Build the Source code of asp.net and run the web page in any browser  Download, Install and Configure xamp on your windows-based laptop or desktop  Start Xamp Services and Create Mysql database using xamp via phpMyAdmin  Download and Install WordPress with Mysql database		asp.net web pages	data from a web page with SQL Server
Create and manage text area, drop downs, radio buttons, lists and tables in asp.net web page using visual studio      Create, Compile and Build an asp.net webpage with its connection with MS SQL database      Create a complete dynamic web project in visual studio with connection of MS SQL Database.      Compile and Build the Source code of asp.net and run the web page in any browser      Download, Install and Configure      Xamp      Download, Install and Configure      Download and Install WordPress with Mysql database      Create and manage text area, drop downs, radio buttons, lists and tables in asp.net web page using visual studio      Demonstrate the concept of an object and its properties in visual studio      Create a .net web project and run it in a browser      Create a complete dynamic web project in visual studio with connection of MS SQL Database.      Compile and Build the Source code of asp.net and run the web page in any browser      Download, Install and Configure xamp on your windows-based laptop or desktop      Start Xamp Services and Create Mysql database using xamp via phpMyAdmin      Download and Install WordPress with Mysql database			<ul> <li>Interact with MS SQL databases using AJAX in</li> </ul>
generate text area, drop downs, radio button, lists and tables, dynamically  16 Create, Compile and Build an asp.net webpage with its connection with MS SQL database  - Create a .net web project and run it in a browser, and examine the html code in a browser - Create a complete dynamic web project in visual studio with connection of MS SQL Database.  - Compile and Build the Source code of asp.net and run the web page in any browser  17 Download, Install and Configure Xamp  - Start Xamp Services and Create Mysql database using xamp via phpMyAdmin - Download and Install WordPress with Mysql database			visual studio
drop downs, radio button, lists and tables, dynamically  16 Create, Compile and Build an asp.net webpage with its connection with MS SQL database  - Create a .net web project and run it in a browser, and examine the html code in a browser - Create a complete dynamic web project in visual studio with connection of MS SQL Database.  - Compile and Build the Source code of asp.net and run the web page in any browser  17 Download, Install and Configure Xamp  - Download, Install and Configure	15	Demonstrate to	Create and manage text area, drop downs, radio
button, lists and tables, dynamically  16 Create, Compile and Build an asp.net webpage with its connection with MS  SQL database  - Create a .net web project and run it in a browser, and examine the html code in a browser  - Create a complete dynamic web project in visual studio with connection of MS SQL Database.  - Compile and Build the Source code of asp.net and run the web page in any browser  - Download, Install and Configure xamp on your windows-based laptop or desktop  - Start Xamp Services and Create Mysql database using xamp via phpMyAdmin  - Download and Install WordPress with Mysql database		generate text area,	buttons, lists and tables in asp.net web page using
tables, dynamically  16 Create, Compile and Build an asp.net webpage with its connection with MS SQL database  - Create a .net web project and run it in a browser, and examine the html code in a browser - Create a complete dynamic web project in visual studio with connection of MS SQL Database.  - Compile and Build the Source code of asp.net and run the web page in any browser  17 Download, Install and Configure Xamp  - Download, Install and Configure  Yamp  Download, Install and Configure  Download, Install and Configure  Start Xamp Services and Create Mysql database using xamp via phpMyAdmin - Download and Install WordPress with Mysql database		drop downs, radio	visual studio
Create, Compile and Build an asp.net webpage with its connection with MS SQL database      Create a complete dynamic web project in visual studio with connection of MS SQL Database.      Compile and Build the Source code of asp.net and run the web page in any browser      Compile and Configure Xamp      Download, Install and Configure Xamp      Download, Install and Configure Xamp Open Install and Configure Xamp Install and Configure Xamp Install According to the content of the concept of an object and its properties in visual studio      Create a complete dynamic web project in visual studio with connection of MS SQL Database.      Compile and Build the Source code of asp.net and run the web page in any browser      Download, Install and Configure xamp on your windows-based laptop or desktop      Start Xamp Services and Create Mysql database using xamp via phpMyAdmin      Download and Install WordPress with Mysql database		button, lists and	
Build an asp.net webpage with its connection with MS SQL database  - Create a .net web project and run it in a browser, and examine the html code in a browser - Create a complete dynamic web project in visual studio with connection of MS SQL Database.  - Compile and Build the Source code of asp.net and run the web page in any browser  - Download, Install and Configure Xamp  - Start Xamp Services and Create Mysql database using xamp via phpMyAdmin - Download and Install WordPress with Mysql database		tables, dynamically	
<ul> <li>webpage with its connection with MS SQL database</li> <li>Create a .net web project and run it in a browser, and examine the html code in a browser</li> <li>Create a complete dynamic web project in visual studio with connection of MS SQL Database.</li> <li>Compile and Build the Source code of asp.net and run the web page in any browser</li> <li>Download, Install and Configure xamp on your windows-based laptop or desktop</li> <li>Start Xamp Services and Create Mysql database using xamp via phpMyAdmin</li> <li>Download and Install WordPress with Mysql database</li> </ul>	16	Create, Compile and	Demonstrate the concept of an object and its
<ul> <li>connection with MS         SQL database</li></ul>		Build an asp.net	properties in visual studio
<ul> <li>Create a complete dynamic web project in visual studio with connection of MS SQL Database.</li> <li>Compile and Build the Source code of asp.net and run the web page in any browser</li> <li>Download, Install and Configure xamp on your windows-based laptop or desktop</li> <li>Start Xamp Services and Create Mysql database using xamp via phpMyAdmin</li> <li>Download and Install WordPress with Mysql database</li> </ul>		webpage with its	<ul> <li>Create a .net web project and run it in a browser,</li> </ul>
studio with connection of MS SQL Database.  Compile and Build the Source code of asp.net and run the web page in any browser  Download, Install and Configure xamp on your windows-based laptop or desktop  Start Xamp Services and Create Mysql database using xamp via phpMyAdmin  Download, Install and Configure  Download, Install and Configure xamp on your windows-based laptop or desktop  Start Xamp Services and Create Mysql database using xamp via phpMyAdmin  Download and Install WordPress with Mysql database		connection with MS	and examine the html code in a browser
<ul> <li>Compile and Build the Source code of asp.net and run the web page in any browser</li> <li>Download, Install and Configure xamp on your windows-based laptop or desktop</li> <li>Start Xamp Services and Create Mysql database using xamp via phpMyAdmin</li> <li>Download, Install and Configure</li> </ul>		SQL database	<ul> <li>Create a complete dynamic web project in visual</li> </ul>
the web page in any browser  Download, Install and Configure xamp on your windows-based laptop or desktop  Start Xamp Services and Create Mysql database using xamp via phpMyAdmin  Download, Install and Configure  Download, Install and Configure xamp on your windows-based laptop or desktop  Start Xamp Services and Create Mysql database  using xamp via phpMyAdmin  Download and Install WordPress with Mysql database			studio with connection of MS SQL Database.
<ul> <li>Download, Install and Configure xamp on your windows-based laptop or desktop</li> <li>Xamp Start Xamp Services and Create Mysql database using xamp via phpMyAdmin</li> <li>Download, Install and Configure xamp on your windows-based laptop or desktop</li> <li>Start Xamp Services and Create Mysql database</li> <li>Download and Install WordPress with Mysql database</li> </ul>			Compile and Build the Source code of asp.net and run
<ul> <li>and Configure</li> <li>Xamp</li> <li>Start Xamp Services and Create Mysql database</li> <li>using xamp via phpMyAdmin</li> <li>Download, Install</li> <li>Download and Install WordPress with Mysql database</li> </ul>			the web page in any browser
<ul> <li>Xamp</li> <li>Start Xamp Services and Create Mysql database using xamp via phpMyAdmin</li> <li>Download, Install and Configure</li> <li>Download and Install WordPress with Mysql database</li> </ul>	17	Download, Install	Download, Install and Configure xamp on your
Download, Install and Configure  using xamp via phpMyAdmin  Download and Install WordPress with Mysql database		and Configure	windows-based laptop or desktop
<ul> <li>Download, Install</li> <li>and Configure</li> <li>Download and Install WordPress with Mysql</li> <li>database</li> </ul>		Xamp	<ul> <li>Start Xamp Services and Create Mysql database</li> </ul>
and Configure  - Download and Install WordPress with Mysql database		_ , , , . ,	using xamp via phpMyAdmin
and Configure  database		·	Download and Install WordPress with Mysql
		and Configure	database
		WordPress	

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	18	Customize	Demonstrate the basic settings of WordPress	
		WordPress	dashboard which includes, general, permalinks,	
		Website with basic	reading and writing configurations.	
		settings	<ul> <li>Create pages and posts and demonstrate the</li> </ul>	
			difference of these two.	
			<ul> <li>Upload media (images and video), and use them in</li> </ul>	
			the page and post.	
			<ul> <li>Create custom menus and navigation systems</li> </ul>	
			that both visitors and search engines will find	
			useful.	
			<ul> <li>Create a static homepage useful for most websites,</li> </ul>	
			or a blog like homepage useful for bloggers.	
		Find, Install and	Find, Install, activate and configure any given	
		Activate plugins &	WordPress plugins	
	19	themes	Find, Install, activate and configure any given	
			WordPress theme	
			<ul> <li>Troubleshoot the errors and warnings</li> </ul>	
		Secure WordPress	Find, Download, Install and Activate WordPress Security	
		Website	Plugins like Wordefence and Succuri	
			<ul> <li>Generate API Key of Succuri Plugin and do the needful</li> </ul>	
	20	Optimize	hardening settings	
	20	WordPress Website	<ul> <li>Scan the website using wordefence plugin and generate</li> </ul>	
			the report of infected files	
			Optimize website using plugin of Autoptimize	
			Optimize website images using Smush (Plugin)	
		Generate Website	Complete website backup from xamp ( local machine )	
		Backup	manual: website files and database separately.	
Complete website backup using WordPre     WP Migrate )		Complete website backup using WordPress plugin (		
			WP Migrate )	
		Restore Website	Restoration of complete WordPress website backup	
	22	Backup	on cloud server/web hosting using cpanel backup	
$ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{le}}}}}}}}$				



		restoration module
	Troubleshoot the	Connectivity of database with WordPress website
Connectivity of file using wp-config file.		file using wp-config file.
	mysql database on	<ul> <li>Correction of Permalinks/URLs (from localhost to live</li> </ul>
	LIVE web hosting	domain name )
	Configuration of	Configure htaccess file to manage the
	htaccess and	parameters of website errors, warnings, notices,
	php.ini file at web	path and SSL
24	hosting	<ul> <li>Configure the php.ini file to manage the parameters of</li> </ul>
		max file upload size, max php variables, max
		processing time, max file attachment size and php
		version.
	On-Page SEO	As per the SEO standards Optimize the main home
		page of WordPress website with respect to:
25		<ul> <li>Page Meta Title</li> </ul>
		<ul> <li>Page Meta Description</li> </ul>
		<ul> <li>Page Meta Tags and Keywords</li> </ul>
	Create Google	Adding website URL as property in google search
	Search Console	console
	Account and	<ul> <li>Generate Website XML based sitemap and</li> </ul>
	Submit Website as	submit to Google Search Console
26	a property in it.	<ul> <li>Generate Robot.txt file and Submit</li> </ul>
20		<ul> <li>Crawl and index web pages in google search</li> </ul>
		console
		<ul> <li>Generate a report of errors and warning, if find any</li> </ul>
		on the website, using google
		search console.

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	Create Google	Create Google Analytics Account and add property	
	Analytics and	in google Analytics	
27	Submit Website as	Configuring Property with verification code and	
	a property in it.	managing views in google analytics	
	E Commerce	Demonstrate E Commerce website and its	
	Website designing	difference from Conventional Commerce	
	and development	Find, Download, Install and Activate WooCommerce	
	in WordPress	Plugin in WordPress Website	
	using	Manage Settings of WooCommerce Pluginwith respect	
28	WooCommerce	to:	
		∘ General	
		<ul> <li>Payment</li> </ul>	
		∘ Shipping	
		o Emails	
		Accounts and Privacy	
	Build your CV	Download professional CV template from any good site	
		(https://www.coolfreecv.com or relevant)	
29		Add Personal Information	
25		Add Educational details	
		Add Experience/Portfolio	
		Add contact details/profile links	
	Create an account	Create an account by following these steps:	
	profile on Fiverr	Step 1: Personal Info	
30	(at least two gigs)	Step 2: Professional Info	
30	and Up-work	Step 3: Linked Accounts	
		Step 4: Account Security	



How to search and apply for jobs in at least two labor marketplace countries (KSA, UAE, etc.)  Browse the following website and create an account on each website

- Bayt.com The Middle East Leading Job Site
- Monster Gulf The International Job Portal
- Gulf Talent Jobs in Dubai and the Middle
   East
- Find the handy 'search' option at the top of your homepage to search for the jobs that best suit your skills.
- Select the job type from the first 'Job Type' drop-down menu, next, select the location from the second dropdown menu.
- Enter any keywords you want to use to find suitable job vacancies.
- On the results page you can search for part- time jobs only, full-time jobs only, employers only, or agencies only. Tick the boxes as appropriate to your search.

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