Table of Contents

Professional Diploma in Wed Applications Development (Laravel Framework) 2

Course Title	**Professional Diploma in Wed Applications Development (Laravel Framework)**		
Pre-requisite	**CSE/Science Graduate/04 Years ICT Diploma/ Non Graduate with 03 Years Related Experience**		
Course Fee	**20,000/-**		
Hours	**125 X 4 = 500**		
Course Objectives	✓ Basic concept familiarization of Web Design and Laravel Framework ✓ Industry standards of development in Laravel Framework ✓ Participants will be trained on real life issues and latest tools ✓ Training will be provided by experienced trainers with long industry experience ✓ During the training, trainees will be given a real-life project work ✓ Performance and learning activities for each of the trainees will be assessed throughout the program.		
Course outline		**Sub Course Titles**	**Hour**
	First Term	**Web Design (HTML,CSS, JS)** ❖ Practicing the Basics of HTML and HTML Pages ❖ Comments, Starting HTML Page, Head, Style, Script, Body ❖ Meta Tag, Meta Attributes, Keywords, Description, Author, Page Refresh ❖ Paragraph, Heading, Division, Section, Article ❖ Header, Footer, Main, Aside ❖ Span, Cite, Address, Abbreviation, Details, Summary ❖ Bold, Underline, Italic, Small, Strong, Subscript, Superscript ❖ Delete, Mark, Code, Block Quote, Quotation Practicing Advanced HTML and Basic HTML5 ❖ Font, Font Size, Font Color, Font Face ❖ HTML Entities – Registered Trademark, Copyright, Euro, Space, Cent, Pound ❖ Symbol – Summation, Elements Of, Not Elements Of, Empty, Differential Sign ❖ URL Anchor, Mail Anchor, Call Anchor, Target ❖ Navigation Tag, Purpose of Navigation Tag ❖ Image, Image Source, Alternate Attribute, Height and Width, Title ❖ Description List, Define Terms, Define Details, Ordered List, Unordered List, List Item Practicing More HTML5 and Designing Pages ❖ iFrame, iFrame Target, Sandbox Attribute, Load iFrame on Click ❖ Audio, Video, Source, Media Type, Preload, Stream YouTube Video using iFrame ❖ Base URL, Bidirectional Override, Preformatted Text, Data List, ❖ Level, Result, Access Key, Editable Attribute, Downloadable Product ❖ Table, Table Row, Table Data, Table Head, Table Body, Table Foot, Style Attribute, Border ❖ HTML Form, Input Types, Get and Post Method, Button Tag, Button Attributes ❖ Designing Website Layout using HTML **3. CSS and CSS3** ❖ Practicing Basic CSS Codes	**140**

		❖ How to and Where to CSS code, Comments in CSS, Converting Style Attribute to CSS ❖ ID Selector, Class Selector, Child Class, Grouping Selector, Multi Stylesheet, Link Stylesheet ❖ Background Image, Background Repeat, Background Position, Background Color ❖ Padding, Margin, List, Font, Link, and Table using CSS ❖ CSS Combinators – Child Selector, Descendent Selector, Adjacent Selector; Target Selector ❖ Dimension, Media Screen, Responsive Design ❖ Cursor, Custom Font (from External and Internal Source) Designing with Advanced CSS and Basic CSS3 ❖ Border in CSS, Box Shadow, Opacity, Horizontal Alignment, Background Image Handling ❖ White Space, Float, Clear Tag, Columns, Visibility, Animation, Animation Moves ❖ Table in CSS, Position in CSS ❖ An example Dropdown Menu using CSS ❖ Outline, Menu Example 1 and 2, CSS for Print Screen, Transform, Border-box Designing Button using CSS Designing more Advanced with CSS3 Designing Search Box and Text Fields using CSS3, Border Image, Background Image, Background Color, Gradient, Text Shadow, Word Break, Rotate, Rotate X, Rotate Y, Content Position, Counter, Transform, Animation, Button in CSS3, Columns, Filter Designing Layout using CSS, Understanding the Concept of Template and Theme. ❖ **JavaScript** ❖ Writing JavaScript Code, Comments, Simple Variable, Variable Types JS Operators, Simple Function, Parameter, Arguments, If Else Statement, Handling Multiple Condition, Conditional Operators, Get Element By ID, Get Element By Tag Name, Get Element By Class, Switch Case, For Loop, EVAL Function Advanced JavaScript, ParseInt, ParseFloat, ParseString, This Element ❖ Class and Object, Advanced Class and Object, Handling String, Handling Number Handling Math, Handling Math Handling Array. ❖ Examples on JavaScript ❖ Example – Form Validation, Advanced Form Validation, JSON Format, Auto Select, Confirm Function, Image Slider, Popup Page ❖ Example - Printing Option Creation, Random URL, Blur, Creating Dynamic Dropdown Menu.	
		Basic PHP ❖ What is Server-Side Scripting? ❖ Introduction to PHP ❖ Open Source Technology + Using AMP (Apache, MySQL, PHP) Software ❖ PHP-Syntax, Variables , Types, Constants, Operators ❖ Control Structures (if , else , elseif , while , do-while ❖ for , foreach ,break ,continue , switch ,declare ❖ return ,require ,include ,require_once ,include_once)	

		❖ Functions(User-defined functions, Function arguments ❖ Returning values , Variable functions) ❖ String Manipulation, Arrays and array Functions	
		My SQL database ❖ Introduction to Databases and MySQL Database ❖ Introduction to PhpMyAdmin ❖ Database Administration using PhpMyAdmin ❖ Making Database using PHP, Making Table using PHP ❖ MySQL Data Types, MySQL Synax Orders ❖ InsertData to MySQL database using PHP Functions ❖ Display Data from MySQL database using PHP; Functions; ❖ Update data to MySQL using PHP function; ❖ Delete data from MySQL using PHP function;	
		Sub-Total	**140**
	Second Term	Basic Object Oriented Programming Concepts, Solid introduction to the C# programming language. One can learn the fundamentals of C# through lessons using the Microsoft .NET framework. The course will introduce students to some of the common features within Microsoft Visual Studio. Some of the outlines are as below: ❖ Primary and Complex Types, Classes, Members, and Properties ❖ Arrays and Collections , Handling Errors	
		Some of the advanced features and common practices using C#. C# is extremely readable, maintainable, and extremely powerful when the developer takes advantage of everything the language has to offer. Some of the concepts covered in this course include: ❖ Interfaces, generics, extension methods, Tracing, Security Caching LINQ, events, delegates, and Lambdas, asynchronous programming	
		Entity Framework from designing models, writing data access code and integrating Entity Framework into your software solutions. Topics include: ❖ Getting to know Visual Studio 2012, Overview of the entity framework model first modeling, Code first modeling ❖ Interacting with your data model, Using EF in your solutions	
		Sub-Total	**150**
	Third Term	**Laravel** ❖ Laravel-5 Installation, Initial Setup ❖ Your First View and Route, View Data and Blade ❖ Routing to Controllers, Layout Files ❖ How to Manage Your CSS and JS, Fetching Data ❖ Defining Relationships With Eloquent, Forms ❖ Updating Records and Eager Loading, Validation and More ❖ Authenticate Your Users, Understanding Middleware ❖ Flashing to the Session, Automatic Resolution and the Service Container, Bootstrapping With Service Providers	**100**
		Project Work ❖ Customer requirements analysis and communication with all the stakeholders, how to select technology etc. ❖ Introduce with OOD, Design patterns as required and different UML diagrams. Like- Class diagram, Object diagram, Sequence diagram	**74**

		❖ Process flow, Activity diagram etc. ❖ Database schema design; introduce DB objects and using areas with how and why etc. ❖ Create project with layered and tired technologies, unit testing and integration with version control system through bit bucket. ❖ Quality assurance and software testing process and how from developers point of view. ❖ Bug life cycle and project deployment with maintenance etc.	
		Search Engine Optimizations (SEO)	**16**
		Soft Skill ❖ Communication Skills & Corporate Etiquette ❖ Communication Skills, Corporate Etiquette ❖ ICT Knowledge & Social Media ❖ ICT Knowledge, Social Media ❖ Interview Skills ❖ Interview Skills, Self Development, Self Development	**20**
		Sub-Total	**210**
		Total	**500**
Using Tools	Note Pad++, netbeans etc, Visual Studio 2013, SQL server 2014 etc (As per Requirements)		
Target	Government and Private Organizations		