Web Development Outline

Overview:

Course provides participants an opportunity to build a Great Career in web application development world, a best web development program in KICS UET to learn web development all in one, course start from basic level and moved toward advanced tools and techniques of web development. Program is covering HTML5, CSS, BOOTSTRAP, JS, jQuery, PHP, MySQL, LARAVEL and Website Design Concepts and common tasks need for development and administration of a website.

Weekly Course Outline Modules:

The proposed methodology for the training under reference employs motivation as a tool. Hence besides the purely technical content, a trainer is required to include elements of motivation in his/her lecture. To inspire the trainees to utilize the training opportunity to the full and strive towards professional excellence.

- Clear Purpose to convey the message to trainees effectively.

- Exercise to quote as an example to follow.

- Trainees Fit so that the situation is actionable by trainees and not represent a just idealism.

- Ending Points to persuade the trainees on changing themselves.

For this purpose, they must be encouraged to inquire and collect specific information/data, actively participate in the discussions, and intended solutions to the problem/situation.

Course Outline will cover the following plans:

1. **Week 1: Introduction to Web Frontend Development.**
   a) Course Introduction and Job Market Value
   b) Introduction WWW & Differentiate in Websites
   c) Differentiate Between Static or Dynamic Websites (Frontend and Backend)
   d) Install Tools and Initialize HTML building blocks
   e) Formatting and Attributes

2. **Week 2: Learning HTML & CSS.**
   a) Block vs Inline level Elements, Tag vs Element, Image & Link
   b) HTML Table and Lists
   c) HTML Forms
   d) HTML Layout Elements, I-Frame, Media Elements
   e) What is CSS, Syntax & Selector types

3. **Week 3: Learning CSS & Bootstrap.**
   a) Inclusion, Overriding, Comments, Colors, Backgrounds, Borders
   b) CSS Height, Width, Margins, Padding
   c) CSS Lists, Table, Display, Float
   d) What is Bootstrap, Grid System, Colors, Buttons
   e) Bootstrap Navbar, Modal, Tables, Forms

4. **Week 4: Learning JavaScript.**
   a) What is JavaScript, Output Statements, JavaScript Variables
   b) JavaScript Operators and Conditional Statements
   c) Loop Types (for-loop, while loop, do while loop)
   d) JavaScript Functions
   e) JavaScript Objects and Arrays

5. **Week 5: jQuery & PHP.**
   a) What is jQuery, and Selectors
   b) jQuery Events and Effects
   c) Overview PHP, Variables, Constants, Output Statements
   d) Operators and Decision Making
   e) Loop types (for, while, do while)

6. **Week 6: PHP & Midterm Exam.**
   a) Functions
   b) Arrays
   c) PHP Forms
   d) Midterm Exam (2 Dyas)

7. **Week 7-8: PHP & MySQL.**
   a) Introduction OOP (Object Oriented Programming)
   b) Class, Objects, Variables, Functions, Inheritance
   c) Parent or Child Class, Polymorphism, Overloading, Data Abstraction, Encapsulation, Destructors
   d) Session
   e) Cookies
   f) MySQL Basics, Create DB using Console and PHP My Admin
   g) DDL, DML, DRL Operation in SQL
   h) DB Integration with PHP
   i) Crude Operation using MySQL

8. **Week 9-10: Laravel.**
   a) Introduction to Laravel
   b) Architecture Concepts
   c) Routing
   d) Blade Template
   e) MVC
   f) Migrations
   g) Relationships (2 Days)
   h) Security (2 Days)

9. **Week 11: Project.**
   a) Crud Application
   b) Rest API
   c) Gallery App
   d) Final Project (2 Days)

10. **Week 12: Project Evaluation & Final term Exam.**
    a) Project Evaluation (4 days)
    b) Final Term Exam

End of this Course Outline, Student Will be able to:

This course thus clearly goes beyond the domain of the traditional training practices in vogue and underscores an expectation that a market-centric approach will be adopted as the main driving force while delivering it. The instructors should therefore be experienced enough to be able to identify the training needs for the possible market roles available out there. Students will be able to start offline or online their business and apply strategies as they go through whole course listed below.

1) Knowledge to build REAL world creative and modern website from very scratch using modern web technologies.
2) Knowledge to new ways of coding, tips & tricks and modern best practices to build a professional website.
3) Knowledge of wire-framing, HTML5, CSS3, jQuery and Bootstrap
4) Knowledge to build a fully responsive website which will look perfect on all the small & wide screens.
5) Knowledge of PHP, OOP, MySQL
6) The basic of Laravel such as installation, routing, template, controller, model, migration etc.
7) You will make your first crud app with Laravel
8) You will make Restful API
9) You will make Gallery app with Laravel and jQuery
10) You will learn blade template in Laravel

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