**Module 1: Introduction to Web Development**

* **Web Basics**
  + Overview of web technologies
  + Understanding how the web works (HTTP, URLs, DNS)
  + Client-Server architecture
  + Introduction to front-end and back-end development
* **Setting Up the Development Environment**
  + Installing XAMPP/WAMP/MAMP
  + Understanding the role of the web server, PHP, and MySQL
  + Setting up a code editor (VS Code, Sublime Text)

**Module 2: Introduction to HTML**

* **HTML Basics**
  + Structure of an HTML document
  + Common HTML tags (headings, paragraphs, links, images, etc.)
  + Table and its Properties
  + Forms and form elements
  + HTML5 semantic elements
* **HTML Basics**
  + Audio & Video Elements
  + HTML Form and Validation
  + Iframe Element
  + Practical Work

**Module 3: Introduction to CSS**

* **CSS Basics**
  + Introduction to CSS and its syntax
  + CSS selectors and properties
  + Box model, margin, padding, and borders
  + Box Shadows and 2D Transitions
  + Responsive design with media queries
* **CSS Animations**
  + CSS frameworks (Bootstrap introduction) Text Effects & Gradients
  + 2D Transforms Effect
  + 3D Transforms Effect
  + Transitions Effect
  + Animation in CSS

**Module 4: Introduction to JavaScript**

* **JavaScript Fundamentals**
  + JavaScript syntax and variables
  + Data types and operators
  + Control structures (if, else, loops)
  + Functions and events
  + DOM manipulation
* **Advanced JavaScript**
  + Introduction to ES6+ features (let, const, arrow functions, etc.)
  + Working with arrays and objects
  + JQUERY Basics and Methods
  + AJAX and interacting with APIs
  + Form validation with JavaScript

**Module 5: Introduction to PHP**

* **PHP Basics**
  + Introduction to PHP
  + PHP syntax and embedding PHP in HTML
  + Variables, constants, and data types
  + Control structures (if, else, switch, loops)
  + Functions and arrays in PHP
* **Working with Forms in PHP**
  + Handling form submissions
  + Validating and sanitizing user input
  + File handling and uploads in PHP
  + Session management and cookies

**Module 6: Working with Databases**

* **Introduction to MySQL**
  + Database concepts and MySQL overview
  + Creating and managing databases and tables
  + Performing CRUD operations (Create, Read, Update, Delete)
  + Writing SQL queries and using MySQL functions
* **PHP and MySQL Integration**
  + Connecting PHP to MySQL
  + Executing SQL queries from PHP
  + Fetching and displaying data from a database
  + Preventing SQL Injection and using prepared statements

**Module 7: Advanced PHP Concepts**

* **Object-Oriented Programming (OOP) in PHP**
  + Introduction to OOP principles (classes, objects, inheritance, polymorphism)
  + Creating and using classes in PHP
  + Constructors, destructors, and magic methods
  + Namespaces and autoloading in PHP
* **Working with Files and Directories**
  + Reading from and writing to files
  + File system functions in PHP
  + Uploading and managing files
* **Error Handling and Debugging**
  + Understanding error types and handling errors in PHP
  + Using try-catch for exception handling
  + Debugging tools and techniques

**Module 8: Introduction to Laravel**

* **Laravel Overview**
  + Introduction to the Laravel framework
  + Setting up a Laravel project
  + Laravel directory structure
  + Understanding MVC architecture
* **Routing and Controllers**
  + Defining routes in Laravel
  + Creating controllers
  + Route parameters and middleware
  + Resource controllers and RESTful routes
* **Blade Templating Engine**
  + Introduction to Blade templating
  + Blade syntax and directives
  + Template inheritance and sections
  + Including partials and components

**Module 9: Working with Databases**

* **Laravel and Databases**
  + Configuring database connections
  + Introduction to Laravel Eloquent ORM
  + Creating and running migrations
  + Defining models and relationships
* **Database Operations**
  + Performing CRUD operations
  + Query builder and raw SQL
  + Eloquent relationships (one-to-one, one-to-many, many-to-many)
  + Database seeding and factories

**Module 10: Advanced Laravel Features**

* **Authentication and Authorization**
  + Implementing user authentication
  + Laravel authentication scaffolding
  + Role-based access control (RBAC)
  + Custom authentication and guards
* **Middleware and HTTP Requests**
  + Creating and using middleware
  + Handling requests and responses
  + Validating form data
  + File handling and storage
* **Laravel Services and Tools**
  + Service providers and dependency injection
  + Using Laravel services (mail, notifications, queues)
  + Working with APIs (consuming and building)
  + Task scheduling and event handling

**Module 11: Testing and Deployment**

* **Testing in Laravel**
  + Writing unit tests and feature tests
  + Using Laravel's testing tools
  + Mocking and stubbing
  + Best practices for testing
* **Deployment**
  + Preparing a Laravel application for production
  + Configuring environment settings
  + Deploying on shared hosting, VPS, or cloud services
  + Using version control with Git and GitHub

**Module 12: Project Development**

* **Building a Laravel Application**
  + Planning and designing the application
  + Implementing features and functionality
  + Using third-party packages
  + Debugging and troubleshooting
* **Final Project**
  + Building a complete Laravel application from scratch
  + Applying all learned concepts
  + Presenting and deploying the final project