



Virtual Internship Program

Full Stack Website Development

Module-1

- Basics and Introduction to Website Development
- Understanding the client-server architecture
- Basics of HTTP and HTTPS and Basic HTML Structure
- Creating a basic HTML document and Semantic HTML
- Working with Tables, Images, Graphs and Other elements in the HTML
- CSS syntax and selectors & Styling HTML elements
- Media queries, Flexbox and Grid website layout
- Various tags in HTML and DIV Tag using HTML

Module-2

- Working with the advanced tags in the HTML
- Working with layout of Website and creation of a sample website using HTML & CSS
- Overview of server-side, Basics of the databases
- Server-side scripting languages set a basic server
- Designing and implementing RESTful APIs and SQL
- MongoDB, Firebase, or other NoSQL databases
- Connecting the Website with the Database and Hosting Providers mechanism
- Introduction to Git, Git commands and workflows

Module-3

- Deployment strategies, Hosting platforms for website
- Cross-Site Scripting, Cross-Site Request Forgery
- Minification and compression, Caching strategies
- Creation of a professional mail by using various e-mail providers
- Introduction to Website Design using WordPress
- Installation of WordPress and Hosting the Websites
- Configuration of WordPress, Themes and Plugins
- Working with various Plugins in WordPress platform



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Module-4

- Working with the relevant plugins for effective websites
- Working with the Elementor and another Page builders in the WordPress
- Designing the pages and customization of layouts
- Working with the WordPress page responsiveness
- Working with Contact Forms and Call-To-Actions
- Installation of themes, plugins for E-Commerce site Website Analytics and insights
- Overview of JavaScript; JavaScript syntax and data types
- Variables, operators, and expressions, Control flow (if-else statements, loops)

Module-5

- Understanding the DOM, Accessing and modifying DOM elements
- Creating, appending, and removing DOM elements, Working with DOM events
- Declaring and calling functions, Function parameters and return values
- Introduction to asynchronous; Callbacks, Promises, and async/await
- Handling asynchronous operations (e.g., AJAX requests) Error handling
- Working with forms and form validation, Manipulating CSS styles with JavaScript
- Introduction to responsive web design
- Building a dynamic and interactive website using HTML, CSS and JavaScript

Module-6

- Working with the Introduction Chapter Including Objectives, Need for the study and etc
- Working with the Industry Profile and Company Profile Chapter
- Working with the Theoretical Framework Chapter
- Working with the Results and Discussion or Data Analysis Chapter
- Working with the Findings, Suggestions and Conclusion Chapter
- Preparation of the Academic Project Report as per the Guidelines given by the concerned university