

# CERTIFIED PROFESSIONAL DIPLOMA IN FULL STACK WEB DEVELOPMENT



# CERTIFICATIONS OPTIONS AVAILABLE



**CancanIT**  
Professional certification  
for web Developers  
[www.cancanit.com](http://www.cancanit.com)



**Microsoft**



# ABOUT US

Infobyte Career Institute offers a high-quality learning experience in the field of IT training to train students on brand new technologies and train them to deliver the desired results with commercially relevant and re-organized technical skills.

The probability of achieving your dream job will keep on increasing day by day once you complete a course in Infobyte Career Institute. We also focus on improving soft skills in terms of communication, leadership, teamwork, external appearance, and attitude which helps everyone to be professional in all the aspects of their career.

# ABOUT FULL STACK WEB DEVELOPMENT

Full stack web development refers to the process of building both the front-end and back-end components of a web application. The front-end is the part of the application that users interact with, usually involving HTML, CSS, and JavaScript to create an engaging and responsive user interface. The back-end, on the other hand, handles the server-side logic, databases, authentication, and data processing. It often involves programming languages such as Node.js, Python, Ruby, or PHP, along with databases like MySQL, MongoDB, or PostgreSQL. A full stack developer is proficient in both areas and capable of managing all aspects of web application development, from designing the user interface to developing APIs, ensuring data storage, and deploying the final product. This versatility allows for the creation of complete, functional web applications from start to finish.



# BENEFITS OF FULL STACK DEVELOPMENT

- Career Growth - Higher Pay & Position
- Encourages professional development
- Enriches self-image and reputation
- Enhances professional credibility.
- Abundant Job Opportunities Used In
- Many Industries Global Recognition
- Secure and Flexible 50+ Case Studies
- 10+ Projects

# FULL STACK WEB DEVELOPMENT TOPICS

- Web Designing (Html, CSS, JavaScript & JQuery)
- REACT JS
- PHP
- MYSQL

# HTML

## Overview of HTML5:

- Introduction HTML
- HTML Basics HTML
- Structure of HTML5
- Different between HTML and HTML5
- Elements HTML5
- Semantic HTML Attributes and Formatting Tags
- HTML Headings
- HTML Paragraph
- HTML Pre tag
- HTML Mark Tag
- HTML br and hr tag
- HTML Image with alt
- HTML Styles
- HTML Formatting HTML Quotations
- HTML Computer Code HTML
- Comments & Colours HTML CSS, Links
- and Images HTML Lists

# HTML

- HTML Table
- HTML Blocks
- HTML SVG
- HTML Classes
- HTML iframe - Google Map
- HTML Layout
- HTML Responsive
- HTML JavaScript
- HTML Forms - Labels and Inputs , Radio , Date , Time , Checkbox, Select, Textarea, Button-submit , Input-Required , Max- length and Min- length
- Html Marquee
- Html variables
- Figure Tag , Figure caption ,Video,Audio.
- HTML Canvas

# CSS

- Introduction CSS3 CSS3
- Syntax CSS3 How To link css
- in html CSS3 Colours CSS3
- Backgrounds CSS3
- Background Image CSS3
- Borders CSS Padding CSS
- Margin CSS Calc method CSS
- hover CSS importants CSS
- opacity CSS scale CSS skew
- CSS rotate c CSS3 Font Style
- CSS Height/Width CSS
- Animation - Keyframes CSS3
- Gradients CSS3 Postion Fixed
- and Sticky



# CSS

- CSS3 Shadows
- CSS3 Text
- CSS3 Fonts
- CSS3 2D Transforms
- CSS3 3D Transforms
- CSS Lists, CSS Tables
- CSS Outline
- CSS Display
- CSS Max-width
- CSS Position
- CSS Justify Contant
- CSS Float
- CSS Inline-block
- CSS Align
- CSS class
- CSS element
- CSS Navigation Bar
- CSS Dropdowns
- CSS Tooltips
- CSS3 Images
- CSS Attribute
- Selectors CSS
- Forms CSS Counters
- CSS3 Animations

# CSS

- CSS3 Buttons
- CSS3 Pagination
- CSS3 Multiple Columns
- Border Image
- Media Queries, CSS3 Responsive

# JAVA SCRIPT

- JavaScript Introduction,
- Internal, External javascript
- Data Types
- Js Operators
- If Statements
- Switch, Loops Js
- Function
- Function return
- Function with parameters
- Arrow Functions
- Calculator Projects using Function
- Object
- Arrays Js
- Array Methods
- Array Map, Filter, Reduce
- Maths Methods
- Prototypes
- Try and catch
- DOM(Document Object) getElementById, GetElementsByName, getElementByTagName, InnerHtml, InnerText property Js
- Validation – Form validation, Email validation Js
- OOPs – JS Class, Object, Constructor, Methods Js Inheritance, Encapsulation, Polymorphism, Abstraction

# JQUERY

- Introduction to jQuery
- jQuery Syntax
- jQuery Selectors
- jQuery Events
- Hide, Show, Toggle,
- FadeIn, FadeOut,
- SlideDown, SlideUp, SlideToggle,
- Jquery animate
- JQuery Mouseover and Mouseleave
- JQuery Keypress, Keyup and Keydown
- JQuery Focus, blur, select, submit
- jQuery Click and dblclick
- jQuery CSS
- jQuery Effects
- jQuery HTML
- jQuery Append, prepend, before, after
- jQuery Mobile jQuery Mobile Pages
- Mobile Buttons
- Mobile Navbars
- Mobile Tables
- jQuery Mobile Forms

# REACT JS

- **REACTJS OVERVIEW**

- React Features
- React Advantages
- React Limitations

- **REACTJS SETUP ENVIRONMENT**

Install Global Packages Create the

- Root Folder Add Dependencies
- and Plugins Create the Files Set
- Compiler, Server, and Loaders
- index.html App.jsx and main.js
- Running the Server

- **REACTJS**

- Using JSX
- Nested Elements
- Attributes **JSX**
- JavaScript Expressions



# REACT JS

- Styling
- Comments
- Naming Convention
- **REACTJS COMPONENTS**
- Stateless Example
- Stateful Example
- **REACTJS STATE, EFFECT & REF**
- **REACTJS PROPS OVERVIEW**
- Using Props27 Default Props
- State and Props
- **REACTJS PROPS VALIDATION**
- Validating Props
- **REACTJS COMPONENT API**
- Set State
- Force Update
- Find Dom Node
- **REACTJS COMPONENT LIFE CYCLE**
- Lifecycle Methods

# REACT JS

- **REACTJS    FORMS**
  - Simple Example
  - Complex Example
- **REACTJS    EVENTS**
  - Simple Example
  - Child Events
- **REACTJS        REFS 51**
  - Using Refs..51
- **REACTJS        KEYS 53**
  - Using Keys .53
- **REACTJS    ROUTER**
  - Install a React Router
  - Create Components
  - Add a Router
- **REACTJS — REDUX  
CONCEPT**
  - Redux Elements
  - Redux Pros
- **REACTJS    USING FLUX**
  - Install Redux

# REACT JS

- Create Files and Folders
- Actions
- Reducers
- Store
- Root Component
- Other Components
- **REACTJS ANIMATIONS**
- Install React CSS Transitions Group
- Add a CSS file
- Appear Animation
- Enter and Leave Animations
- **REACTJS HIGHER ORDER COMPONENTS**
- **REACTJS BEST PRACTICES**
- **Nodejs – CRUD Operations.**

**And Many More...**

# PHP

- **Introduction:** Web Development with PHP. The architecture of a web application. Basic PHP skills to get data from a request. Work with data.
- **Control statements:** Code the conditional expressions, the selection structures, and the iteration structures
- **Strings and Numbers:** Work with strings and numbers. Other skills for working with strings and numbers.
- **Work with dates:** Use timestamps to work with dates and use objects to work with dates
- **Create and use Arrays:** Create and use an array. Create and use an associative array. How to use functions to work with arrays. How to work with an array of arrays.
- **Create and use functions:** Basic skills for working with functions. Create and use namespaces. Advanced skills for working with functions
- **Work with cookies and sessions:** Work with cookies and sessions.
- **Work with form data:** Get data from a form and display data on a web page.
- **Use regular expressions, handle exceptions, and validate data:** How to use regular expressions. How to handle exceptions.
- **Design a database:** How to design a data structure. How to normalize a data structure. A database design tool

# PHP

- **Arrays and Operations** :Store or hold more than one value in a single variable without having to create more variables to store those values
- **Die and Exit**: Used to print a different message in the event of a mistake.
- **Validations**: Process before the data entered in the form is submitted to the database.
- **List functions**: Assign a list of variables in one operation.
- **String Functions**: String functions are used to modify a string or query knowledge about a string
- **Date Functions**:Returns the sequential serial number that represents a particular date.
- **Php & AJAX**: Client-side and server-side talk, PHP is a server-side scripting language.
- **Php with Oops**:Object-oriented programming in PHP helps developers build reusable and complex web applications.
- **Php with Crud**:Crud operation in php is an acronym that stands for Create, Read, Update, and Delete.
- **Php Rest Api**: An API that allows programmers to send and receive information from other programs using HTTP protocol commands such as GET and POST.



# MYSQL

- **Introduction:** An introduction to a relational database. The SQL statements for data manipulation. An introduction to MySQL. How to use PHP MyAdmin.
- **Use SQL to create a MySQL database:** How to work with databases. How to work with tables. How to work with indexes. How to work with users and privileges. Other skills for creating a databases
- **Use SQL to work with a MySQL database:** Select data from a single table? Select data from multiple tables? Code summary queries? How to code sub- queries. How to insert, update, and delete rows.
- **PHP for working with MySQL:** Ways to use PHP to work with MySQL. How to work with PDO. How to work with MySQL
- **PHP with a MySQL database:** PHP for working with MySQL. How to get data from a result set
- **Working with PHP services:** SOAP.REST

# MYSQL

- **MVC pattern to organize your code:** How to use the MVC pattern.
- **Object-oriented Programming concept with PHP:** Create and use classes. How to code class constants, properties, and methods. Working with objects. How to work with inheritance
- **Test and debug a PHP application:** An introduction to testing and debugging. How to debug with xDebug and Net beans
- **A database-driven website:** How to work with large text columns.
- **Create secure websites:** How to use a secure connection. How to use authentication. How to work with encrypted data.
- **Send email and access other websites:** How to send an email. How to get data from other servers.

# WHO CAN LEARN ?

- Anyone who wants to build a career as a Data Scientist.
- Anyone who wish to gain knowledge about Programming
- Students who are currently in college or university

# CAREER OPPORTUNITIES

- Frontend Web Developer
- Backend Web Developer
- UI/UX Developer
- Web Application Developer
- Web Analyst
- Senior Developer

**And Many More...**

# FACILITIES OFFERED

- Practical Training on Live Projects
- Complete Placement Assistance
- Interview Preparation
- Global Certification
- Fully functional labs
- Online / Offline Training
- Study Materials
- Expert Level Industry Recognized Training



# OUR RECRUITERS

