



DIPLOMA IN JAVA FULL STACK DEVELOPMENT

BLENDED COURSE COURSE OVERVIEW

The Java Full Stack Web Development course covers all aspects of building web applications using Java. Topics include web development frameworks such as Maven and Spring Boot, database integration, front-end web development with HTML, CSS, and JavaScript, node.js, React web security, deployment, and testing. Learners will gain hands-on experience working on real-world projects and be equipped with the skills and knowledge necessary to develop full-stack web applications using Java.

COURSE OBJECTIVE

Equip learners with a strong foundation in data analytics and business intelligence principles.

Master advanced Excel techniques for data cleaning, transformation, and effective visualization.

Develop proficiency in SQL to extract, manipulate, and analyse data from diverse sources.

Learn Python programming for data automation, statistical analysis, and predictive modeling.

SKILLS YOU WILL LEARN

Java programming Web development frameworks (e.g. React, Maven, Spring Boot) Front-end web development with HTML, CSS, and JavaScript Object-Relational Mapping (ORM) Database integration (e.g. MySQL, MongoDB) Web security Deployment

PROGRAM HIGHLIGHTS

Eligibility - 10+ 2

No. of Session - 79

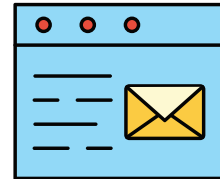
Language-English

Shareable certificate- Yes



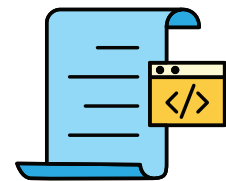
Module 1 HTML

- session 1 HTML language: A basic introduction
- session 2 Basic tags in HTML
- session 3 Lists in HTML
- session 4 Tables in HTML
- session 5 Images in HTML
- session 6 Frames in HTML
- session 7 Introduction to Typography



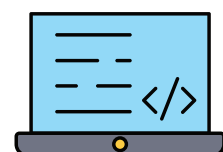
Module 2 CSS

- session 1 Introduction to CSS
- session 2 How to add css to html document
- session 3 CSS Selectors
- session 4 Practical Selectors
- session 5 Styling Backgrounds
- session 6 Practical Backgrounds
- session 7 Styling Text and Fonts
- session 8 Practical styling text and fonts
- session 9 Styling Links
- session 10 CSS Box Model
- session 11 Units in CSS
- session 12 CSS Positioning
- session 13 CSS flex Box Display



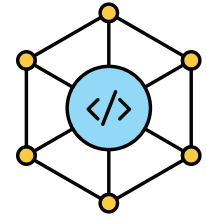
Module 3 Java Script

- session 1 What is JavaScript?
- session 2 Variables
- session 2.1 Practical Variables
- session 3 DataTypes
- session 3.1 Practical Data Types
- session 4 Operators Arithmetic
- session 5 Relational
- session 6 Logical
- session 7 Conditional statements
- session 8 Loops
- session 9 Array
- session 10 Function
- session 11 DOM manipulation
- session 12 Events
- session 13 Events Handlers
- session 14 Callbacks
- session 15 Ajax



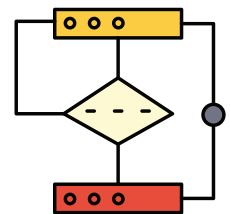
Module 4 React

- session 1 React Introduction
- session 2 Create Hello World react app
- session 3 Understanding folder Structure
- session 4 Practical
- session 5 Functional Component
- session 6 Rendering Dynamic Data
- session 7 Handling Events
- session 8 useStateHooks
- session 9
- session 10 Complete React Project



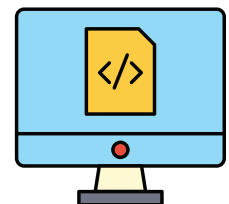
Module 5 NodeJS

- session 1 Introduction to Node js
- session 2 Installation of Node
- session 3 Write your first script
- session 4 Understanding the role of server in rendering static and dynamic web
- session 5 Making basic Server output on Browser
- session 6 Package.json
- session 7 Express JS
- session 8 Creating Simple API



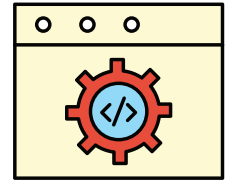
Module 6 Object Oriented Programming using Java

- session 1 Introduction to Java
- Session 2 Installation of Java and IDLE
- session 3 JDK ,JRE and JVM
- session 4 Java variables
- session 5 Java Data types
- session 6 Java Operators
- session 7 Conditional Statements
- session 8.1 Loops in Java
- session 8.2 While Loop
- session 9 Introduction to OOps Concept
- session 10 Classes and Object
- session 11 Default Constructors
- session 12 Parameterised Constructor
- session 13 Inheritance Introduction
- session 14 Single inheritance
- session 15 Multilevel inheritance



Module 7 ATM Project

- session 1 Project Intro
- session 2 File Structure of Project
- session 3 Define ATM class
- session 4 User Authentication
- session 5 Provide Menu
- session 6 Interface creation
- session 7 Define ATM Operations

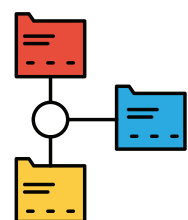


Module 8 Introduction to Spring boot

- session 1 Why Spring boot
- session 2 Introduction to Springboot
- session 3 Springboot Architecture
- session 4 Creating Springboot Project

Module 9 Projects

- Session 1 Introduction to Project
- Session 2 Create project using spring.io initializer and packages
- Session 3 Create Model Class to provide connection with MySQL Database
- Session 4 Creating Post API @PostMapping for sending data in database
- Session 5 Creating get API @GetMapping for getting data from database
- Session 6 Creating update API @PUTMapping
- Session 7 Creating Delete user API @DeleteMapping
- Session 8 Create React App using npm for frontend
- Session 9 Create Navbar using Bootstrap and React
- Session 10 Create Homepage using Bootstrap table
- Session 11 Display Information using AXIOS GET
- Session 12 Configure Routing using REACT
- Session 13 Create Register User Form using React
- Session 14 Store User Information inside state
- Session 15 Post data into database AXIOS POST
- Session 16 DELETE User using AXIOS





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