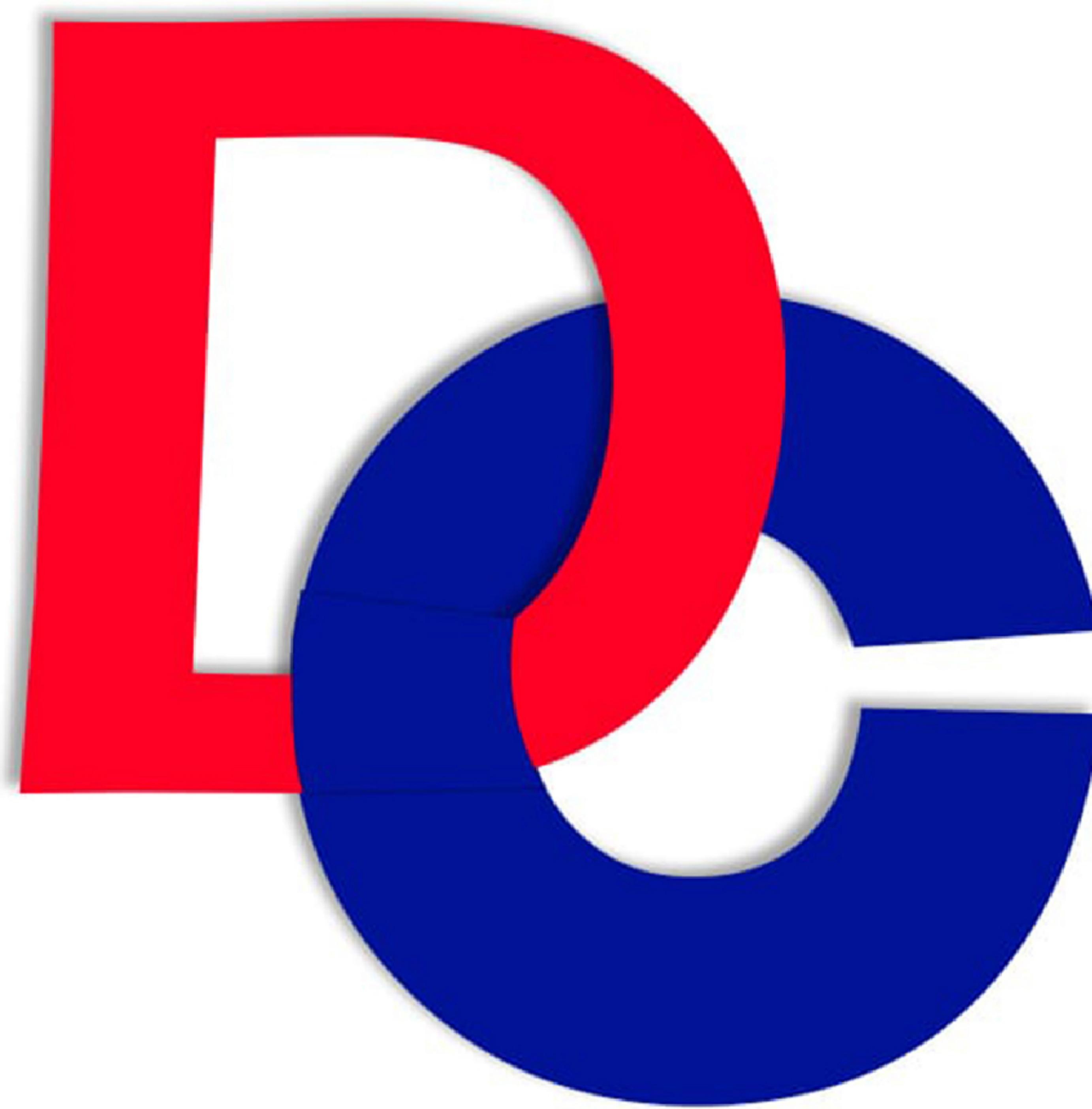




Dchronicles Explication
International Pvt Ltd



**Dchronicles Explication
International Pvt Ltd**

JAVA FULL STACK DEVELOPMENT COURSE

**3 Months Training & 3 Months Internship On Live Project
100 % Guaranteed Placement**



+91 735 073 5036



hr@dchronicles.in



C Wing office No - 25,
Liberty Phase - 2, Opp Lane No.5,
Koregaon Park Pune - 41 100 1

Course Structure:

1. Training Period: 3 Months
2. Internship: 3 Months
3. Placement Support: 100% Job Placement Guaranteed

Course Focus:

Practical Training (80%): Emphasis on hands-on experience with real-world applications. Students will work on live projects, enhancing their skills through practical coding exercises and development tasks. Theoretical Knowledge (20%): Basic concepts, industry best practices, and foundational knowledge in Java and full-stack development. This ensures that students have a strong theoretical understanding to complement their practical skills.

Key Components:

Front-End Development: HTML, CSS, JavaScript, React.js, or Angular.

Back-End Development: Java, Spring Boot, RESTful APIs.

Database Management: SQL, NoSQL databases, JPA/Hibernate.

Live Project Work:

Hands-On Experience: Students will be assigned to live projects where they will apply their skills in real-time, working on tasks such as developing features, debugging, and optimizing code. Mentorship: Continuous guidance from experienced industry professionals to help navigate challenges and provide insights into best practices.

Placement Support:

Career Counseling: Personalized career advice to help students identify their strengths and career goals. Resume Building: Assistance with creating a professional resume tailored to the tech industry. Interview Preparation: Mock interviews, feedback sessions, and tips to excel in technical and behavioral interviews. Job Opportunities: Access to a network of hiring partners and job openings tailored to the student's skills and interests.



Why Choose DChronicles?

1. Experienced Instructors

Learn from industry veterans with extensive experience in Java and full-stack development. Our instructors bring real-world insights and practical knowledge to the classroom.

2. Industry-Relevant Curriculum

Our curriculum is designed to meet current industry standards and trends. The course content is continuously updated to reflect the latest technologies and practices in full-stack development.

3. Practical Learning Focus:

With 80% of the course dedicated to practical training, students gain hands-on experience that is crucial for mastering full-stack development. This practical approach ensures that graduates are job-ready.

4. Comprehensive Internship Experience:

The 3-month internship on live projects allows students to apply their knowledge in a real-world setting, gaining valuable experience and building a professional portfolio.

5. 100% Job Placement:

We are committed to helping our students succeed in their careers. Our robust placement support includes career counseling, resume building, and interview preparation, ensuring a smooth transition from training to employment.

6. Supportive Learning Environment:

DChronicles fosters a collaborative and supportive learning environment. Students benefit from personalized attention, peer interactions, and a network of professionals who are invested in their success.

7. Strong Industry Connections:

Our partnerships with leading tech companies and hiring partners provide students with access to exclusive job opportunities and industry connections.

By choosing DChronicles, you invest in a future-ready education that combines cutting-edge technical skills with real-world experience, setting the foundation for a successful career in Java full-stack development.



+91 735 073 5036



hr@dchronicles.in



C Wing office No - 25,
Liberty Phase - 2, Opp Lane No.5,
Koregaon Park Pune - 41 100 1

SYLLABUS

HTML

Introduction to HTML
Basic Structure of HTML
HTML Editors
HTML Tags
Paragraphs, Headings and Text
Formatting Tags
HTML Lists
HTML Images
HTML Tables
HTML Forms
HTML Media

CSS

Introduction to CSS
Types of CSS
CSS Properties, Selectors and Values
Applying CSS to HTML
Paragraphs, Headings and Text
CSS Box Model, Margins, Padding, Borders
CSS Text & Font Formats
CSS Advanced Topics

JAVASCRIPT

Introduction to JavaScript
How to Apply JavaScript
Displaying Output in JavaScript
Understanding JavaScript Syntax
Variables & Datatypes
Operators
Math and String Manipulations
Conditional and looping Statements
Functions
Validations
Events

BOOTSTRAP

Introduction to Bootstrap
Bootstrap Setup
Bootstrap Containers
Bootstrap Grids
Bootstrap Tables
Bootstrap Buttons, Navbars, Alerts
Bootstrap Carousel
Bootstrap Forms

JAVA

Introduction to Java
Java LanguageJava Platform
Java Technologies
History of Java
Execution Model Of Java
First Java Program
The JDK Directory Structure
Eclipse IDE
Similarities between C and Java
Defferences between C and Java
Standard Edition of Java
JDK
Path
Classpath

DATA TYPES

What are data types?
Int
Float
Char
Double
Boolean
Short
Long
Bytes

METHODS

What are Methods?
Method Structure
Declaration Of Methods
Calling Of Methods
Defining Methods
Method Parameters Scope
Why static methods?

CONTROL FLOW STATEMENTS

What are Control Flow Statements?
If Statement
else if Statement
Conditional (Switch) Statements



OPERATORS

- Arithmetic Operators
- Relational Operators
- Logical Operators
- Conditional Operator
- Precedence Operator
- Cast Operator

OBJECT ORIENTED PROGRAMMING

- Overview of OOP
- Class and Object
- Encapsulation
- Attributes (Properties)
- Operations (Methods)
- Reference Vs Object
- Real-time Object Oriented Examples

CONSTRUCTOR

- No Argument Constructor
- Parameterized Constructor
- Constructor Overloading
- Explicit Vs Implicit Default Constructor

WRAPPER CLASSES ACCESSIBILITY

- Private
- Protected
- Default
- Public

ARRYS

- What is an array?
- Declaring an array
- Initializing an array
- One Dimentional array
- Two Dimentional arrays
- Multi Dimentional arrays

STATIC MODIFIERS

- Static Variables
- Static Methods
- Static Blocks
- Static Classes

INHERITANCE

- Inheritance in Java
- Use of Inheritance
- Single Inheritance
- Multi-level Inheritance
- Hierarchical Inheritance
- Hybrid Inheritance

POLYMORPHISM

- Introduction to Polymorphism
- Method Overloading
- Method Overriding
- Super ClassSub Class
- Abstract Classes
- Abstract Methods
- Static Polymorphism
- Dynamic Polymorphism
- Static Vs Dynamic Polymorphism

INTERFACE

- Interfaces Vs Abstract Class
- Role of Interfaces in Real time
- Interfaces Inheriting from other Interfaces
- Declarative Multiple Inheritance using Interfaces

PACKAGES

- What is a Package?
- Advantages of Packages
- Types Of Packages
- Naming Convention
- Steps For Creating Packages
- The import Statement
- Static Imports
- Defining Packages
- Scope of Packages

STRING HANDLING

- String
- String Buffer
- String Handler

EXCEPTION HANDLING

- Types of errors
- Need of Exception Handling
- Try, Catch, throws, Finally
- Try with resources
- Exception Hierarchy
- User Defined Exceptions

IOSTREAMS

- Byte-Oriented Streams
- Character Oriented Streams
- Java.Io.File Class
- Object Serialization



MULTITHREADING

Multi-tasking Vs Multi threading
Life Cycle of Thread
Java.lang.thread Vs Java.lang.runnable
Developing Multithreaded Applications
Synchronization
DeadLock
Inter-thread communication

INNER CLASSES

Inner Class
Nested Class
Different types of Nested Classes

MISCELLANEOUS

Java.lang.object Class
Garbage Collection
Java.util.properties
Java.util.string Tokenizer
Dealing with date & time
Collection Framework
Annotations
Java JDK 1.8 Features
Stream API
Varargs
Autoboxing and unboxing
Enum types

JDBC

Introduction To JDBC
JDBC Architecture
Types Of JDBC Drivers
Creating a Database & Table
Getting Information from Database
Obtaining Result Set Information
Connecting a Java Program to DB
Prepared Statement & Statement classes in java
Inserting, Updating & Deleting data

JAVA SERVLETS

What is a Web Application
Java Servlets
Servlets Lifecycle
Servlets Context
Session Management
Building the First Servlet
Deploying the Servlet

SPRING BOOT

Rest Api & Web Service Creation
Integration with JDBC Template
Integration with Hibernate

JSP

What is a JSP page
Basic HTML tags
JSP Tag Library
JSP Page Lifecycle
Creating first dynamic web page

MVC ARCHITECTURE

Introduction to MVC
MVC Architecture
Advantages of MVC
Building pages with MVC
Three-tier architecture

STRUTS FRAMEWORK

Introduction
Actions
Validation Framework
Interceptors
Results
Data Tags
UI Tags

HIBEMATE FRAMEWORK

Technologies for Persistency
Introduction to ORM
Hibernate Architecture
Hibernate API
Configuration Properties
CRUD Operation
Inheritance in Hibernate
Component Mapping
Collection Mapping One-to-many, Many-to-many Relations
Inheritance in Hibernate
HQL (Aggregate Function ,clauses ,Criteria)



SPRING FRAMEWORK

Introduction to Spring
IOC
DI
AOP
Bean Lifecycle
Types of Injection
Inheritance & Composition
Collections
Bean Auto Wiring
DAO

XML AND WEB SERVICES

SAX & DOM
REST API
POSTMAN
SOAP UI
JSON

TESTING AND WEB SERVICES DEVELOPMENT

JUNIT
TestNg
DevOps
Jenkins
Maven
Angular JS

DATABASE

Database Handling with MySQL
Python MySQL Database Access
Create Database Connection
DML and DDL Operations with Databases
Performing Transactions
Handling Database Errors
Disconnecting Database
Database Handling with MongoDB
SQL vs NoSQL
MongoDB
PyMongo
Establishing a Connection
Accessing Database
DML and DDL Operations
Oracle
MySQL
MongoDB



+91 735 073 5036



hr@dchronicles.in



C Wing office No - 25,
Liberty Phase - 2, Opp Lane No.5,
Koregaon Park Pune - 41 100 1