

## **Course Information**

Java is a popular programming language, created in 1995. Java works on different platforms (Windows, Mac, Linux, Raspberry Pi, etc.) It is open-source, free, secure, fast and powerful and it is one of the most popular programming language in the world. It has a huge community support.

It is used for:

- Mobile applications (specially Android apps)
- Desktop applications
- Web applications
- Web servers and application servers
- Games
- Database connection

Following professionals can go for it:

- Fresher's
- IT Experts

This course will cover 12 months of training in which 80% of the training will be practical based with regular assignments and after completion of the training, a project will be given to the student and their evaluation will be based on their projects. Also regular tests

and mock sessions on technical as well as on HR rounds will be a part of the curriculum. This course also includes soft skill development which will help students to perform better in interview.

**Eligibility:** Technical graduate having fundamental knowledge of any programming languages like C, C++.

Lecture Duration: 12 months

Placement: 100% Placement Assistance

Job Profile: Java developer

# Contents

## Java

Java as a Programming Tool Advantages of Java The Java "White Paper" Buzzwords Java and the Internet A Short History of Java Common Misconceptions About Java

## The Java Programming Environment

Installing the Java Software Development Kit Development Environments Using the Command Line Tools Using an Integrated Development Environment Compiling and Running Programs from a Text Editor Graphical Applications Applets

## Fundamental Programming Structures in Java

A Simple Java Program Comments Data Types Variables Assignments and Initializations Operators Strings Control Flow Big Numbers Arrays

## **Objects and Classes**

Introduction to Object-Oriented Programming Using Existing Classes Building Your Own Classes Static Fields and Methods Method Parameters Object Construction Packages Documentation Comments Class Design Hints

## Inheritance

Extending Classes

Object: The Cosmic Superclass The Class Class Reflection Design Hints for Inheritance

### **Interfaces and Inner Classes**

Interfaces Object Cloning Inner Classes Proxies

### **Graphics Programming**

Introduction to Swing Creating a Frame Frame Positioning Displaying Information in a Panel 2D Shapes Colors Text and Fonts Images

### **Event Handling**

Basics of Event Handling The AWT Event Hierarchy Semantic and Low-Level Events in the AWT Low-Level Event Types Actions Multicasting The Event Queue

### User Interface Components with Swing

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### **Applets**

Applet Basics The Applet HTML Tags and Attributes Multimedia The Applet Context JAR Files

## **Exceptions and Debugging**

Dealing with Errors Catching Exceptions Some Tips on Using Exceptions Debugging Techniques Using a Debugger

### **Streams and Files**

Streams The Complete Stream Zoo ZIP File Streams Putting Streams to Use Object Streams File Management

## Advanced Java Multithreading

What Are Threads? Interrupting Threads Thread Properties Thread Priorities Selfish Threads Synchronization Deadlocks User Interface Programming with Threads Using Pipes for Communication between Threads

### Collections

Collection Interfaces Concrete Collections The Collections Framework Algorithms Legacy Collections

### Database Connectivity: JDBC

The Design of JDBC The Structured Query Language Installing JDBC Basic JDBC Programming Concepts Executing Queries Scrollable and Updatable Result Sets Metadata Transactions Advanced Connection Management Java IDL and CORBA

### **Advanced Swings**

Lists Trees Tables Styled Text Components Component Organizers

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Lists Trees Tables Styled Text Components Component Organizers

### **Advanced AWT**

The Rendering Pipeline

- Shapes
- Areas
- Strokes
- Paint

Coordinate transformations

Clipping

Transparency and Composition

- Rendering Hints
- Reading and Writing Images
- Image Manipulation
- Printing
- The Clipboard
- Drag and Drop

## J2EE

Overview Distributed Multitiered Applications J2EE Containers Web Services Support Packaging Applications Development Roles J2EE APIs Sun Java System Application Server Platform Edition

Understanding XML Introduction to XML Generating XML Data Designing an XML Data Structure Getting Started with Web Applications

Web Application Life Cycle

Web Modules Configuring Web Applications Duke's Bookstore Examples Accessing Databases from Web Applications Further Information Java API for XML Processing The JAXP APIs

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Handling Errors with the Nonvalidating Parser

Displaying Special Characters and CDATA

Parsing with a DTD

Choosing Your Parser Implementation

Using the Validating Parser

Parsing a Parameterized DTD

Handling Lexical Events

Using the DTDHandler and EntityResolver

**Further Information** 

Building Web Services with JAX-RPC

Setting the Port

Creating a Simple Web Service and Client with JAX-RPC Types Supported by JAX-RPC Web Service Clients Web Services Interoperability and JAX-RPC

### **Further Information**

SOAP with Attachments API for Java **Overview of SAAJ** Tutorial **Code Examples Further Information** Java API for XML Registries **Overview of JAXR** Implementing a JAXR Client Running the Client Examples Using JAXR Clients in J2EE Applications **Further Information** Java Servlet Technology What Is a Servlet? The Example Servlets Servlet Life Cycle Sharing Information Initializing a Servlet Writing Service Methods **Filtering Requests and Responses Invoking Other Web Resources** Accessing the Web Context **Maintaining Client State Finalizing a Servlet Further Information** 

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JavaServer Pages Documents

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Internationalization Tag Library SQL Tag Library Functions Further Information Custom Tags in JSP Pages What Is a Custom Tag? The Example JSP Pages Types of Tags

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Using the Core Tags Using the HTML Component Tags Using Localized Messages Using the Standard Converters Registering Listeners on Components Using the Standard Validators Binding Component Values and Instances to External Data Sources Referencing a Backing Bean Method Using Custom Objects Developing with JavaServer Faces Technology Writing Component Properties Performing Localization Creating a Custom Converter Implementing an Event Listener

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Writing Backing Bean Methods Internationalizing and Localizing Web Applications Java Platform Localization Classes Providing Localized Messages and Labels Date and Number Formatting Character Sets and Encodings Further Information

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What Is an Enterprise Bean? What Is a Session Bean? What Is an Entity Bean? What Is a Message-Driven Bean? Defining Client Access with Interfaces The Contents of an Enterprise Bean Naming Conventions for Enterprise Beans The Life Cycles of Enterprise Beans Further Information

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Deploying the J2EE Application Running the Application Client Running the Web Client Modifying the J2EE Application Session Bean Examples The CartBean Example

A Web Service Example: HelloServiceBean Other Enterprise Bean Features Using the Timer Service Handling Exceptions Bean-Managed Persistence Examples The SavingsAccountBean Example Mapping Table Relationships for Bean-Managed Persistence Primary Keys for Bean-Managed Persistence deploytool Tips for Entity Beans with Bean-Managed Persistence Transactions

What Is a Transaction?

Container-Managed Transactions

Bean-Managed Transactions

Summary of Transaction Options for Enterprise Beans

**Transaction Timeouts** 

**Isolation Levels** 

Updating Multiple Databases

Transactions in Web Components Resource Connections JNDI Naming Data Source Objects and Connection Pools Database Connections Mail Session Connections URL Connections Further Information

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Writing Simple JMS Client Applications
Creating Robust JMS Applications
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A J2EE Application That Uses the JMS API with a Session Bean
A J2EE Application That Uses the JMS API with an Entity Bean
An Application Example That Consumes Messages from a Remote J2EE
Server

An Application Example That Deploys aMessage-Driven Bean on Two J2EE Servers Enterprise Beans Application Client Web Client Internationalization Building, Packaging, Deploying, and Running the Application Running the Clients

## Spring Framework

Introduction to Spring Steps to use Spring Framework in applications Understanding IOC and Dependency Injection Understanding the bean life-cycle – Auto wiring and bean scopes Annotation-based dependency injection Adding behaviour to an application using aspects – AOP Creating and applying aspects Introducing data access with Spring – JDBC through spring Transactions in a Spring environment Getting started with Hibernate in a Spring environment Working with Spring MVC Spring MVC Form Handling Creating Views in Spring MVC

## Hibernate

Introduction Architecture Hibernate with annotation Web Application using hibernate Generator Classes in Hibernate Inheritance mapping Table per Hierarchy Table per Concrete Collection in hibernate Hibernate Query language Hibernate Criteria Query Language Caching in Hibernate First level Cache Second Level Cache

## Struts

Introduction Architecture Struts Configuration File Struts.xml Multi configuration Multi namespace **Struts Validation** Custom **Bundled** Ajax Struts Interface Servlet Action Context Session Ae are Servlet Context Aware **Hibernate With Struts** Struts Date Time Picker **Registration Example** Login Example

### Web Development

#### **HTML & CSS Overview**

Introduction **HTML Basics HTML** Elements **HTML** Attributes **HTML Styles HTML** Forms **HTML Form Elements HTML Input Element Types HTML Input Attributes HTML File Paths** Script tag and its uses HTML & XHTML **CSS** Introduction CSS Syntax **CSS Selectors CSS Styling** 

#### **Javascript Primer**

Introduction to Javascript Javascript Statements Javascript Keywords Javascript Functions Javascript Programs Javascript Operators Function Parameters Function Return Values Javascript Data Types Primitive Types

#### Working with Objects

Object Overview Object Oriented Programming Object creation Adding Properties to Objects Adding Methods to Objects Javascript Conditional Statements Javascript Loops & Iteration Enumerating properties Callbacks JSON

Environmental setup

MVC Architecture Model-View-Controller explained Why MVC matters MVC - the AngularJS way

#### **First Application**

#### Directives

Introduction to Directives Directive lifecycle Using AngularJS built-in directives Binding controls to data Matching directives Creating a custom directive

#### Expressions

#### Controllers

Role of a Controller Attaching properties and functions to scope Nested Controllers Using filters in Controllers Controllers in External Files Controllers & Modules

#### Filters

Built-in filters Using AngularJS filters Creating custom filters Tables

HTML DOM Modules Introduction to AngularJS Modules Bootstrapping

#### Forms

Working with Angular Forms Model binding Form controller Validating Angular Forms Form events Updating models with a twist \$error object

#### Scope

What is scope Scope lifecycle Two way data binding Scope inheritance Scope & controllers Scope & directives \$apply and \$watch Rootscope Scope broadcasting

#### **Dependency Injection & Services**

What is Dependency Injection Using Dependency Injection What are services Creating services Factory, Service & Provider Using AngularJS built in services

#### Single Page Application (SPA)

What is SPA Pros & Cons of SPA Installing the ngRoute module Configure routes Passing parameters Changing location Resolving promises Create a Single Page Application

## **Angular-X**

### **Getting Started**

- 1. Course Introduction.
- 2. What is Angular?
- 3. Angular vs Angular 2 vs Angular 4+
- 4. Project Setup and First App.
- 5. Editing the First App.
- 6. The Course Structure.
- 7. What is TypeScript.
- 8. A Basic Project Setup using Bootstrap for Styling

#### The Basics

How an Angular App gets Loaded and Started Components Using Custom Components Creating Components with the CLI & Nesting Components Working with Component Templates Working with Component Style Assignment 1: Practicing Components What is Databinding

String Interpolation

**Property Binding Property Binding vs String Interpolation Event Binding Bindable Properties and Events** Passing and Using Data with Event Binding Two-Way-Databinding Important: FormsModule is required for Two-Way-Binding Combining all Forms of Databinding Assignment 2: Practicing Databinding **Understanding Directives** Using nglf to Output Data Conditionally Enhancing nglf with an Else Condition. **Components & Databinding Deep Dive** Splitting Apps into Components **Property & Event Binding Overview Binding to Custom Properties** Assigning an Alias to Custom Properties **Binding to Custom Events** Assigning an Alias to Custom Events **Custom Property and Event Binding Summary Understanding View Encapsulation** More on View Encapsulation Using Local References in Templates. Getting Access to the Template & DOM with @ViewChild. Understanding the Component Lifecycle Lifecycle Hooks. Assignment 3: Practicing Property & Event Binding and View Encapsulation **Directives Deep Dive** ngFor and nglf ngClass and ngStyle How to create a Basic Directive Using Services & Dependency Injection Why would you Need Services? Creating a Logging Service Injecting the Logging Service into Components Creating a Data Service Understanding the Hierarchical Injector How many Instances of Service Should It Be? **Injecting Services into Services** Using Services for Cross-Component Communication **Assignment 4: Practicing Services** Changing Pages with Routing Why do we need a Router? Understanding the Example Project. Setting up and Loading Routes. Navigating with Router Links.

Understanding Navigation Paths.

Styling Active Router Links.

Navigating Programmatically.

Using Relative Paths in Programmatic Navigation **Passing Parameters to Routes Fetching Route Parameters** Fetching Route Parameters Reactively An Important Note about Route Observables Passing Query Parameters and Fragments **Retrieving Query Parameters and Fragments** Setting up Child (Nested) Routes **Using Query Parameters - Practice** Configuring the Handling of Query Parameters **Redirecting and Wildcard Routes** Important: Redirection Path Matching An Introduction to Guards Protecting Routes with canActivate Protecting Child (Nested) Routes with canActivateChild Using a Fake Auth Service Controlling Navigation with canDeactivate. Handling Forms in Angular Apps Template-Driven (TD) vs Reactive Approach **TD** Forms Assignment 5: Practicing Template-Driven Forms. Introduction to the Reactive Approach **Reactive Forms** Assignment 6: Practicing Reactive Forms. Using Pipes to Transform Output Introduction & Why Pipes are Useful **Using Pipes Making Http Requests** Introduction & How Http Requests Work in SPAs Sending Requests (Example: POST Request) **Adjusting Request Headers** Sending GET Requests Sending a PUT Request Transform Responses Easily with Observable Operators (map()) Using the Returned Data Catching Http Errors Using the "async" Pipe with Http Requests.

Authentication & Route Protection in Angular Apps

How Authentication Works in Single-Page-Applications. Creating a Signup Page and Route Setting up the Firebase SDK Signing Users Up Signin Users In Requiring a Token (on the Backend) Sending the Token Checking and Using Authentication Status Adding a Logout Button Route Protection and Redirection. Wrap Up The HttpClient (ANGULAR 5 Addition Bonus SECTION) Request Configuration and Response. Requesting Events. Setting Headers. Interceptors.

## **SQL - Structure Query Language**

RDBMS - An Introduction Database Relational Database Systems Working with the Book's Sample Database SQL: A Relational Database Language Normal Forms Entity-Relationship Model Syntax Conventions

### **Foundations of T-SQL**

A Short History of T-SQL Imperative vs. Declarative Languages **SQL** Basics Statements Databases **Transaction Logs** Schemas Tables Views Indexes **Stored Procedures User-Defined Functions** SQL CLR Assemblies **Elements of Style** Whitespace Naming Conventions One Entry, One Exit **Defensive Coding** SQL-92 Syntax Outer Joins The SELECT \* Statement Variable Initialization

#### **Procedural Code and CASE Expressions**

Three-Valued Logic

Control-of-Flow Statements The BEGIN and END Keywords The IF...ELSE Statement The WHILE, BREAK, and CONTINUE Statements The GOTO Statement The WAITFOR Statement The RETURN Statement The TRY...CATCH Statement The CASE Expression The Simple CASE Expression The Searched CASE Expression CASE and Pivot Tables COALESCE and NULLIF Cursors

#### **User-Defined Functions**

Scalar Functions

Recursion in Scalar User-Defined Functions Procedural Code in User-Defined Functions Multistatement Table-Valued Functions Inline Table-Valued Functions Restrictions on User-Defined Functions Nondeterministic Functions State of the Database

#### **Stored Procedures**

Introducing Stored Procedures Calling Stored Procedures Managing Stored Procedures Stored Procedures in Action Recursion in Stored Procedures Table-Valued Parameters Temporary Stored Procedures Recompilation and Caching Stored Procedure Statistics Parameter Sniffing Recompilation

#### Triggers

DML Triggers When to Use DML Triggers Auditing with DML Triggers Nested and Recursive Triggers The UPDATE and COLUMNS\_UPDATED Functions Triggers on Views DDL Triggers Logon Triggers

### **Common Table Expressions and Windowing Functions**

Common Table Expressions Multiple Common Table Expressions Recursive Common Table Expressions Windowing Functions The ROW\_NUMBER Function The RANK and DENSE\_RANK Functions The NTILE Function Aggregate Functions and OVER

#### XML

Legacy XML **OPENXML OPENXML** Result Formats FOR XML Clause FOR XML RAW FOR XML AUTO FOR XML EXPLICIT FOR XML PATH The xml Data Type Untyped xml Typed xml The xml Data Type Methods The query Method The value Method The exist Method The nodes Method The modify Method **XML** Indexes XSL Transformations **XQuery and XPath** XPath and FOR XML PATH XPath Attributes **Columns Without Names and Wildcards Element Grouping** The data Function XPath and NULL The WITH XMLNAMESPACES Clause Node Tests XQuery and the xml Data Type **Expressions and Sequences** The query Method Location Paths Node Tests Namespaces

**Axis Specifiers** 

Dynamic XML Construction XQuery Comments Data Types Predicates Conditional Expressions (if...then...else) Arithmetic Expressions XQuery Functions Constructors and Casting FLWOR Expressions

#### **Catalog Views and Dynamic Management Views**

Catalog Views Table and Column Metadata Index Metadata Querying Permissions Dynamic Management Views and Functions Session Information Connection Information Currently Executing SQL

Tempdb Space

Server Resources

**Unused Indexes** 

INFORMATION\_SCHEMA Views

#### **SQL CLR Programming**

The Old Way The SQL CLR Way SQL CLR Assemblies User-Defined Functions Stored Procedures User-Defined Aggregates Creating a Simple UDA Creating an Advanced UDA SQL CLR User-Defined Types

#### **New T-SQL Features**

Set Operators The OUTPUT Clause The TOP Keyword CROSS APPLY and OUTER APPLY The TABLESAMPLE Clause The NEWSEQUENTIALID Function Date and Time Functions The max Data Types Synonyms FILESTREAM Support Enabling FILESTREAM Support Creating FILESTREAM Filegroups FILESTREAM-Enabling Tables Accessing FILESTREAM Data

#### Error Handling and Dynamic SQL

**Error Handling** Legacy Error Handling Try...Catch Exception Handling The RAISERROR Statement Debugging Tools **PRINT Statement Debugging Trace Flags** SSMS Integrated Debugger Visual Studio T-SQL Debugger **Dynamic SQL** The EXECUTE Statement SQL Injection and Dynamic SQL **Troubleshooting Dynamic SQL** The sp\_executesql Stored Procedure **Dynamic SQL and Scope Client-Side Parameterization** 

#### **Performance Tuning**

SQL Server Storage Files and Filegroups Space Allocation Data Compression Indexes Heaps Clustered Indexes Nonclustered Indexes Filtered Indexes Optimizing Queries Reading Query Plans Methodology

### Software Testing

#### MANUAL TESTING

### Duration: 12 hrs.

### Software Development Life Cycle:

- What are the different phases of SDLC?
- How does the process of Software Development Start?
- Project Initiation

#### Requirement Gathering and Analysis

- What is Requirement document and what it contains?
- What is use case document and what it contains?
- What is Basic path and Alternate Path?
- Role of Business Analyst

- Example for explaining each phase
- Role of technical specification team
- What is Technical specification document?

#### What is System Design?

- Role of Design team
- What is design document?
- Role of architecture team

#### System development

- Role of development team
- Deliverable of Development phase

#### System testing

- Role of testers and types of testing
- User acceptance testing
- System deployment

#### System maintenance

• Events in the maintenance phase like bug fixes

#### Software Testing Life Cycle

- How are the phases of STLC carried out?
- What is testing?
- Role of testers
- Why do we need to test?
- Activities involved in the testing phase

#### What is test plan and test case document?

- Steps of test case execution
- What does test case document contain?
- How to write test case document?
- What is required to test any application?

#### TEST CASES

- What is test case?
- What does test case document contain?
- How to write test case document?
- Different test case techniques

#### TEST PLAN

- What is Test Plan?
- How to write test plan document?
- What does the test plan document contain?

- Who writes and approves the test plan document?
- How manage the test case documents?
- What is the pass/fail criterion?

#### TYPES OF TESTING

- Different Phases of testing
- What is unit testing?
- What is Minimum acceptance testing?
- What is integration, system and system integration testing?
- What is User acceptance testing?
- What is Regression Testing?

#### DEFECT ANALYSIS

- What is a defect?
- Various Defect tracking tools
- How to use the defect tracking tools?
- How to enter the details of defect in the defect tracking tool?
- How to identify a defect?
- What is severity and priority?

#### TRACEABILITY MATRIX

- What is Traceability Matrix[TM]?
- Who Prepares the TM document?
- What is the reference for writing TM?
- What is the use of TM?
- What is present in the TM document?
- Sample TM
- Tools used for developing TM



### WHAT STUDENT FEEL ABOUT US:



Subarna Mukherjee 1 review

## ★★★★★ a week ago

I am working on database in a IT company, i started python in iiht-kharghar, i liked their environment, sincerity and professional approach then i upgarded myself for R, machine learning and Hadoop. I am happy to be here.



#### ★★★★★ a week ago - 🔳

It was an amazing experience. I got to learn so many things. The trainers are extremely knowledgeable and are very friendly, love their way of teaching, it was very practical, excellent training pattern. Batch timing and course duration is flexible. This is one of the best institute for learning database and programming languages. Also provides placements and helps to get placed in good companies. I would highly recommend this institute to others to help move their career forward.



#### Pranay Gadhave

1 review

#### ★★★★★ a month ago

I joined IIHT kharghar for the core Java language. The experience was superb. The faculties are good and very helpful.



#### Vedant Pathak

1 review

#### ★★★★★ a month ago - 🔳

Surely a good place to learn about programming, staff is great and responsive. Overall it's a good place



#### rahul chouhan 2 reviews

#### ★★★★★ a month ago - I

Definitely a good place for courses related Software & Hardware. A good add-on to your skills and CV. The certificates provided a worth it. I have pursued Python from here. Now comes to Facilities, they are so good. The step in your shoes n make you understand it.



#### shaligram wagh

1 review

#### ★★★★★ a month ago

I join IIHT Kharghar for CCNA Networking classes, here I learn lot of things regarding networking and clear my all confusions, classes teachers are really good , teaches very friendly , and all staff and HR department are very helpful



#### Didar Hossain

Local Guide · 13 reviews · 3 photos

#### ★★★★★ a month ago

I registered for Angular and refresher for HTML/CSS/JavaScript/PHP. Faculty for web technologies is knowledgeable and helpful. Angular faculty was a professional from the industry whose competence level was extraordinary. \*But\* students need to be serious and willing to put their efforts to make use of such talented faculties - no place for slackers.



#### fahad datey

#### ★★★★★ 3 months ago - 🔳

i completed my cloud training, the training was very good and trainer explain each module practically and i got placed very good company

thank u iiht for giving right carrier path 🖮

# YOU CAN FIND OUR STUDENTS IN:

