JAVA FULL-STACK COURSE

**Core Java**

**UNIT\_001 :** The project, Domain, Platform, Product, Technology, Java Tech Stack, Process, **03 Hrs** Development Environment, Java Introduction

**UNIT\_002 :** Java Fundamentals, Tokens, conditional statements, Looping constructs **03 Hrs**

**UNIT\_003 :** JAVA STD EDITION, API Hierarchy, Class, Objects, Constructor, Inheritance, Access **05 Hrs** Modifier, Method Overloading, and Overriding

**UNIT\_004 :** Arrays, Strings, Exception Handling-try, catch, finally, custom exception, checked **05 Hrs**

and unchecked exception

**UNIT\_005 :** Multithreading, Life cycle, Synchronized block, and method, wait, notify, **08 Hrs**

notify all, Concurrency -ThreadPool, ThreadPool Types, FixedThreadPool, CachedThreadPool, ScheduledThreadPool, SingleThreadExecutor, Threadpool size,ThreadLocal, Lock

**UNIT\_006 :** IOStreams, InputStream, OutputStreams, Character vs Byte Streams, Node **08 Hrs**

and Filter Streams, Collection, collection framework, Collection interface, bulk operations , Internals of List, Set and Map, ArrayList, HashSet, HashMap and important concepts of implementations of Collection frameworks

**UNIT\_007 :** Annotations -Build-in Annotations, Custom annotations, Market, SingleValue **16 Hrs**

and Multivalue annotations, Regular expressions

**UNIT\_008 :** JAVA 1.8 and 11 features, LAMBDA Expressions, Functional Interface, Streams API, **03 Hrs**

JDBC Programming.

**DATABASE PROGRAMMING**

**UNIT\_009 :** Database, DBMS, RDBMS,SQL, DDL,DML,DCL, JOINS, MYSQL, POSTGRESQL. **03 Hrs**