



**IT Expert**  
TECHNOLOGY



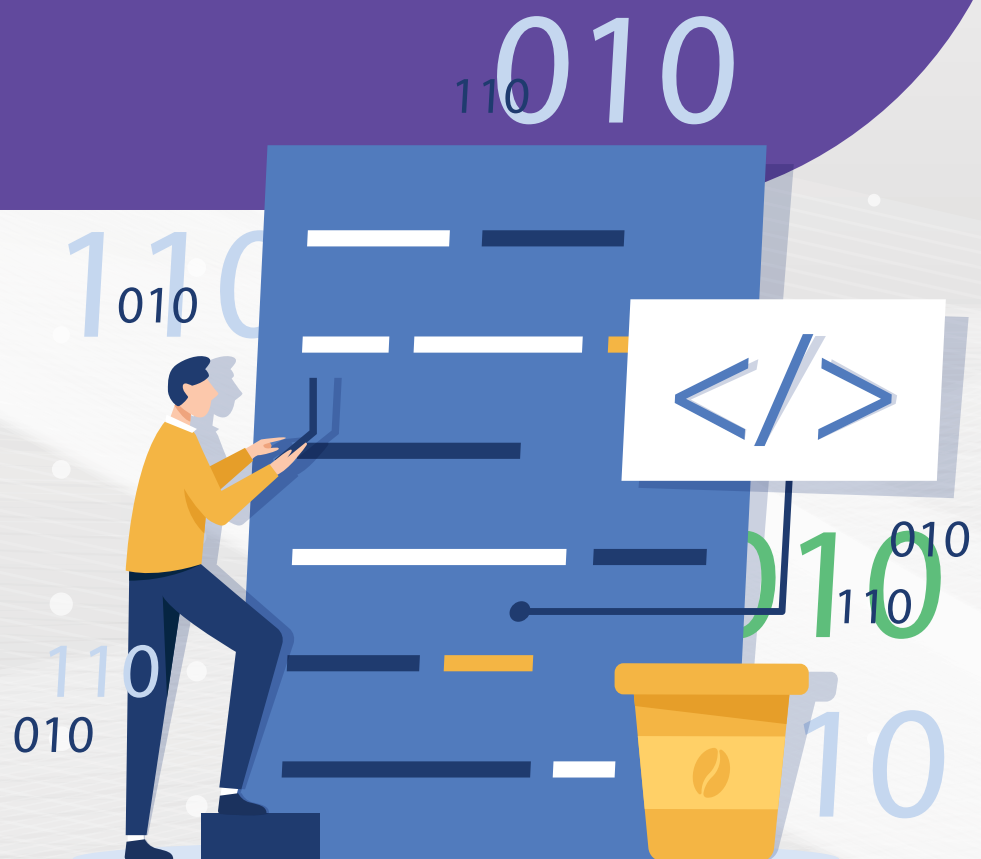
# Full Stack Java (Complete Course)

NOW YOU CAN CODE

## 100% PLACEMENT

# About Course

The Java full stack course from IT Expert Technologie is a one-stop solution to pursuing a career in IT. This course has been specifically designed to help students create end-to-end applications using front-end development to create rich and interactive user interfaces, back-end development to build robust and scalable websites, back-end APIs, databases & more. Throughout this course, students will be exposed to real-time projects and case studies so that they can learn how to design, code, test, and deploy software. As a result of this course, every fresher will be able to become a job-ready full-stack developer



# CORE JAVA

## Module 1: Introduction To Java Programming Environment

- ✓ Java Why? What? How? When? Where?
- ✓ How Java is different from other Technologies
- ✓ Java Technology (JDK, JRE, JVM, JIT)
- ✓ Comparison of java with C and C++
- ✓ Installation java (Setup)
- ✓ 1 Java Program

## Module 2: Fundamentals of Java Programming

- |  |  |
|--|--|
| ✓ Naming convention of Java language   | ✓ Primitive Data Types, Range & Reference (User defined) |
| ✓ Comments                             | ✓ Data type  |
| ✓ Statements                           | ✓ Variables (Primitive, Reference)                       |
| ✓ Blocks (Static, Non-static/instance) | ✓ Type Casting, Default Value                            |
| ✓ Identifiers                          | ✓ Operators (Arithmetic, Unary, Assignment, Relational)  |
| ✓ Keywords                             |  |
| ✓ Literals                             |  |

## Module 3: Control statements in Java

- ✓ Selection statements - if, if-else, switch.
- ✓ Iteration Statements - while, do-while, for, for-each, nested loops.
- ✓ Jump statements - using break, using continue.

## Module 4: Input Fundamentals & Data types In Java

- ✓ Java program inputs from Keyboard
- ✓ Scanner, Buffered Reader
- ✓ Java Array
- ✓ Instantiation of an Array
- ✓ Multi-Dimensional Arrays
- ✓ Java I/O Stream Introduction
- ✓ Using File Class
- ✓ Byte Streams vs Character Streams
- ✓ Text File vs Binary File
- ✓ Character Reading from Keyboard by Input Stream Reader
- ✓ Reading a Line/String from Keyboard by Buffered Reader
- ✓ Standard I/O Streams Using Data Streams to read/write primitive data
- ✓ PrintStream vs PrintWriter Using StreamTokenizer and RandomAccessFile

## Module 5: Object Oriented Programming (Oops Concepts In Deep)

- ✓ Introduction to Object Oriented
- ✓ Introduction to Classes and Objects
- ✓ Abstraction, Encapsulation
- ✓ Inheritance
- ✓ Polymorphism.
- ✓ Instance and Static Variables
- ✓ Constructors
- ✓ Call by value, Call by reference
- ✓ Abstraction Classes
- ✓ Inheritance

## Module 6: Package

- ✓ Package and Class path and its use
- ✓ Package Creation and Use
- ✓ Class path Setting
- ✓ Class Import
- ✓ Package Import



## Module 7: Using Predefined Package & Other Classes

- ✓ Object class and using toString(), equals(), hashCode(), clone(), finalize() etc
- ✓ Using Runtime Class, Process Class to play music, video from Java Program
- ✓ Primitives and Wrapper Class
- ✓ String, String Buffer, String Builder Class
- ✓ String Constant Pool
- ✓ Various usage and methods of String, String Buffer, String Builder
- ✓ Wrapper Classes
- ✓ System Class using gc(), exit(), etc.
- ✓ Auto boxing and Auto unboxing
- ✓ Static import.
- ✓ Instance of operator.

## Module 8: Garbage Collection

- ✓ Garbage Collection Introduction
- ✓ Advantages of Garbage Collection
- ✓ Garbage Collection Procedure
- ✓ Java API

## Module 9: Exception Handling

- ✓ Introduction to Exceptions
- ✓ Effects of Exceptions
- ✓ Exception Handling Mechanism
- ✓ Try, catch, finally blocks
- ✓ Rules of Exception Handling
- ✓ Unchecked Exception
- ✓ Throw & throws keyword

## Module 10: Multithreading

- ✓ Introduction
- ✓ Creating a Thread by inheriting from Thread class
- ✓ Run() and start() method.
- ✓ Constructor of Thread Class
- ✓ Various Method of Thread Class
- ✓ Runnable Interface Implementation
- ✓ Thread Group
- ✓ Thread States and Priorities
- ✓ Synchronization method, block Class & Object Level Lock
- ✓ Deadlock & its Prevention
- ✓ Inter thread Synchronization
- ✓ Life Cycle of Thread
- ✓ Deprecated methods : stop(), suspend(), resume(), etc

## Module 11: Collection Framework

- ✓ Generics(Templates)
- ✓ What is generic
- ✓ Creating User defined Generic classes
- ✓ The java.util package
- ✓ Collection
- ✓ What is Collection Framework
- ✓ List, Set & Map interfaces
- ✓ Using Vector, Array List, Stack, Linked List, etc
- ✓ Using Collections class for sorting
- ✓ Using Hashtable, Hash Map, Tree Map,
- ✓ SortedMap, LinkedHashMap etc.
- ✓ Iterator, Enumerator.
- ✓ Using Queue, Deque, SortedQueue, etc.
- ✓ Using HashSet, TreeSet, LinkedHashMap etc
- ✓ Using Random class

# MySQL

## MYSQL Introduction

- ✓ Database models
- ✓ ER Model Overview
- ✓ Data types

## Basics Queries

- ✓ Data Sorting
- ✓ Query Design & Functions
- ✓ Arithmetic and String functions
- ✓ SET Operators

## Database Operations

- ✓ Database Objects - Create,
- ✓ Alter and Drop Table
- ✓ Views

# Advanced Java Syllabus

## Module 18 : JSP

- ✓ Life cycle of JSP
- ✓ JSP API
- ✓ JSP in Eclipse and other

### Scripting Element

- ✓ Scriptlet tag
- ✓ Expression tag
- ✓ Declaration tag
- ✓ Programs/Interview related
- ✓ Question and Answer

### Implicit Objects

### Directive Elements

### Exception Handling

- ✓ jsp:forward
- ✓ jsp:include
- ✓ Bean class
- ✓ jsp:useBean
- ✓ jsp:setProperty & jsp:getProperty
- ✓ Displaying applet in JSP

## Module 14: Mvc In Jsp

- ✓ MVC pattern
- ✓ Working flow implementation of MVC
- ✓ CRUD operation using MVC
- ✓ Design a real time web application using MVC

### JSTL

- ✓ Discussion on the tag library
- ✓ How to implement and use

### Custom Tags

- ✓ Custom Tag : What and Why?
- ✓ Custom Tag API?
- ✓ Custom URI

## Module 15 : Servlet

- ✓ Basics of Servlet
- ✓ Basics of Web
- ✓ Servlet API
- ✓ Servlet Interface
- ✓ GenericServlet
- ✓ HttpServlet
- ✓ Servlet Life Cycle
- ✓ Working with Apache Tomcat Server
- ✓ Steps to create a servlet in Tomcat
- ✓ How servlet works?
- ✓ Servlet in Myeclipse
- ✓ Servlet in Eclipse
- ✓ Servlet in Netbeans

### Servlet request

Servlet Request methods

Registration example with DB

### Servlet Collaboration

- ✓ Request Dispatcher
- ✓ Send Redirect

### Servlet Configure

- ✓ Servlet Configure methods
- ✓ Servlet Configure example

### Servlet Context

- ✓ Servlet Context methods
- ✓ Servlet Context example

### Session Tracking

- ✓ Cookies
- ✓ Hidden Form Field
- ✓ URL Rewriting
- ✓ HttpSession



## Module 16 : Javamail Api

- ✓ Sending Email
- ✓ Sending email through Gmail server
- ✓ Receiving Email
- ✓ Sending HTML content

## FRONT END

## Module 17 : Web Programming Introduction

- ✓ Architecture of a website
- ✓ Different technologies in making the website
- ✓ Web Development Introduction
- ✓ Introduction to world wide web
- ✓ Protocols of www
- ✓ Hypertext links, URL, domain name system , Web server
- ✓ Internet , browsers, website, web application webpage, the home page

## Module 18 : Introduction to HTML4 and HTML5

### Introduction of HTML

- ✓ What is HTML?
- ✓ What is Markup Language?
- ✓ HTML Page Structure
- ✓ Use of Web Browsers
- ✓ HTML Editors

### HTML Basic

- ✓ What is Element? and Types of Element
- ✓ Block Elements and Inline Elements
- ✓ What is Attributes? and how to use?

### HTML Links

- ✓ Unordered List
- ✓ Ordered List
- ✓ Description List
- ✓ Nested List
- ✓ Attributes : type

## HTML Image

- ✓ Optimizing JPEG,PNG and GIF Images
- ✓ Embedding Images in a WebPage
- ✓ Image as a link
- ✓ Image Maps
- ✓ Attributes : src, title, alt, height, width, shape , cords

## HTML Lists

- ✓ Unordered List
- ✓ Ordered List
- ✓ Description List
- ✓ Nested Listo
- ✓ Attributes : type

## HTML Tables

- ✓ Creating Tables
- ✓ Formatting Tables
- ✓ Table Headers and Captions
- ✓ Attributes : rowspan, colspan, border, bgcolor

## HTML Form and Input

- ✓ Creating Forms (Form Element)
- ✓ Form Methods - Get,Post
- ✓ Single Line Input - Textbox,Password,Hiddenbox
- ✓ Multiple Line Input - Textarea
- ✓ Single Selection - Radio Button, Select
- ✓ Multiple Selection - Checkbox, Select with multiple attribute
- ✓ File Upload – File

## HTML Iframe and Fieldset

- ✓ Creating Iframe
- ✓ Iframe - Target for a Link
- ✓ Creating Fieldse

## HTML5

- ✓ Introduction of HTML5
- ✓ Difference between HTML4 and HTML5
- ✓ HTML5 New Semantic (Structural) Elements:
  - Header
  - Nav
  - Section
  - Article
  - Aside
  - Footer
  - Details
  - Summary
  - Figure
  - Figcaption
  - Mark
  - Progress
  - Meter

## HTML5 New Form Elements

- ✓ Datalist
- ✓ Output

## HTML5 New Input Types

- ✓ color
- ✓ date
- ✓ datetime
- ✓ datetime-local
- ✓ email
- ✓ month
- ✓ number
- ✓ range
- ✓ search
- ✓ tel
- ✓ time
- ✓ url
- ✓ week

## HTML5 New Input Attributes

- ✓ Autocomplete
- ✓ Autofocus
- ✓ Form
- ✓ Formaction
- ✓ Formenctype
- ✓ Formmethod
- ✓ Formnovalidate
- ✓ Formtarget
- ✓ List
- ✓ Min and max
- ✓ Pattern
- ✓ Placeholder
- ✓ Required
- ✓ Step

## HTML5 New Graphic Elements

- ✓ Canvas
- ✓ Svg

## HTML5 New Graphic Elements

- ✓ Audio
- ✓ Video
- ✓ Source
- ✓ Embed



## Module 19 : Introduction to css and css3

### Introduction of CSS

- ✓ What is CSS?
- ✓ Why use CSS?
- ✓ CSS and Markup Languages

## CSS Basic

- ✓ CSS Syntax
- ✓ Types of CSS
- ✓ CSS Selectors
- ✓ CSS Comments
- ✓ StyleSheet Strategies

## Color and Background Properties

- ✓ Set Text and ForegroundColor
- ✓ Set BackgroundColor
- ✓ Set BackgroundImage
- ✓ Set background-position

## CSS Font Properties

- ✓ Set size of Fonts
- ✓ Apply style to Fonts like bold, italic
- ✓ Creating SmallCaps
- ✓ Change Fonts using Font Family

## HTML Div and Span Element

- ✓ Create Div
- ✓ Arrange Div in specific place
- ✓ Create Webpage layout

## CSS Box Properties

- ✓ Margin
- ✓ Padding
- ✓ Content
- ✓ Border

## CSS Float Properties

## CSS Border Properties

## CSS Position Properties

- ✓ Static
- ✓ Relative
- ✓ Fixed
- ✓ Absolute
- ✓ Z-index

## CSS List Properties

- ✓ list-style
- ✓ list-style-image
- ✓ list-style-position
- ✓ list-style-type

## Introduction to CSS3

- ✓ What is CSS3?
- ✓ Difference between CSS and CSS3

## CSS3 Backgrounds

- ✓ background-size
- ✓ background-origin
- ✓ background-clip
- ✓ Multiple Background Images

## CSS3 Gradients

- ✓ Linear Gradient
- ✓ Radial Gradient

## CSS3 Shadow



## Module 20 : Introduction to Bootstrap

### Introduction of BS

- ✓ What is BS?
- ✓ What is Responsive Web Design?
- ✓ Why use BS?
- ✓ How to use BS and Syntax?

### How to Create a Layout in BS

- ✓ Grid Classes

### Typography and colors in BS

#### BS Tables

- ✓ Bordered Table
- ✓ Striped Table
- ✓ Hover Table
- ✓ Condensed Table
- ✓ Responsive Table

### Navigation bar in BS

- ✓ Inverted NavigationBar
- ✓ Fixed NavigationBar
- ✓ Navigation Bar with Dropdown
- ✓ Right-aligned NavigationBar
- ✓ Collapsing the NavigationBar

### Form in BS

- ✓ Vertical Form
- ✓ Horizontal Form
- ✓ Inline Form

### Buttons in BS

- ✓ ButtonStyles
- ✓ ButtonSizes
- ✓ Block LevelButtons
- ✓ Active/DisabledButtons

### Images in BS

- ✓ Rounded Corners  
Image
- ✓ Circle Image
- ✓ Thumbnail Image
- ✓ Responsive Image

## Module 21: Introduction to JavaScript

- ✓ What is Javascript?
- ✓ Javascript and Markup Languages
- ✓ Javascript Syntax

## Module 20 : Introduction to Bootstrap

### JavaScript Output

- ✓ window.alert
- ✓ document.write
- ✓ console.log
- ✓ innerHTML

### Statements and Comments

### Variables

### JavaScript Arrays

### JavaScript Objects

- ✓ Object Syntax
- ✓ How to use Object values

### Datatypes

- ✓ number
- ✓ string
- ✓ boolean
- ✓ object
- ✓ undefined
- ✓ null
- ✓ function

### Operators

- ✓ Arithmetic Operators
- ✓ Assignment Operators
- ✓ String Operators
- ✓ Comparison Operators
- ✓ Logical Operators
- ✓ Type Operators

### Functions

- ✓ What is function?
- ✓ Why use function?
- ✓ Function Syntax
- ✓ Types of fuction

### Conditional Statements and Loops

- ✓ Conditional Statements
- ✓ Looping Statements

### HTML Events

- ✓ Window Events
- ✓ FormEvents
- ✓ KeyboardEvents
- ✓ MouseEvents

### JavaScript Validation

# MEAN STACK

## Module 22 : Introduction to Mean Stack

### Angular (Type Script)

- ✓ Introduction to Angular
- ✓ Angular Application Architecture
- ✓ What is NgModule
- ✓ Angular Components
- ✓ Angular Templates
- ✓ Data Binding
- ✓ Types of Data Binding
- ✓ Modules Component Working
- ✓ Directives
- ✓ Structure Directives
- ✓ Template Routing
- ✓ Theme Implementation in Angular Framework
- ✓ Angular Forms
- ✓ Services
- ✓ Inject Services
- ✓ Angular Server Communication With Backend Server
- ✓ Working of Api's(GET, POST, PUT,DELETE)
- ✓ Complete Web application In Angular Framework

## Module 23 : NodeJS

- ✓ Introduction to Nodejs
- ✓ Architecture of Nodejs Application
- ✓ Synchronous and Asynchronous Programming
- ✓ Call back Function in nodejs
- ✓ Promises in Nodejs
- ✓ Mongodb with Nodejs
- ✓ Design the Schema in Nodejs
- ✓ Design the Rest API's
- ✓ GET,POST,PUT,DELETE
- ✓ JSON web Token Authentication in nodejs
- ✓ Create the Auth APP in nodejs
- ✓ Create the E-commerce Backend
- ✓ Integrated Payment Gateway

## Module 24 : ExpressJS

### ExpressJS (Building RESTFUL API's Using Express)

- ✓ Express
- ✓ Restful services
- ✓ Introducing Express
- ✓ Building your First Web Server
- ✓ Nodemon
- ✓ Environment Variables
- ✓ Route Parameters
- ✓ Handling HTTP GET Request
- ✓ Handling HTTP POST Request
- ✓ Calling Endpoints Using Postman
- ✓ Input Validations
- ✓ Handling HTTP PUT Request
- ✓ Handling HTTP DELETE Request
- ✓ Project- Build the Genres API

### Express- Advanced Topics

- ✓ Middleware
- ✓ Creating a Custom Middleware
- ✓ Built-in Middleware
- ✓ Environments
- ✓ Configuration
- ✓ Debugging
- ✓ Templating Engine
- ✓ Database Engines
- ✓ Database Integration
- ✓ Authentication
- ✓ Structuring Express Applications

## Module 25: MongoDB

- ✓ Introduction to MongoDB (No-sql)
- ✓ Collections in MongoDB
- ✓ Documents In mongoDb
- ✓ Difference between Mysql and NoSql
- ✓ Inserting data into database
- ✓ Filter queries in Mongoddb Database
- ✓ Schema Validation in MongoDB database
- ✓ Indexing In collections
- ✓ Aggregation in MongoDB
- ✓ Embedded Document in MongoDB



# MERN STACK

























## Module 26: ReactJS

- ✓ Introduction to ReactJS
- ✓ Understand ReactJS Library & directory
- ✓ React Components
- ✓ Types of Components
- ✓ Build a simple React component
- ✓ Component composition
- ✓ Component styling
- ✓ Add styles to your components
- ✓ Component inter communication
- ✓ How to pass data from one component to another
- ✓ Routing
- ✓ Using Routing to create single page app
- ✓ Hooks
- ✓ States
- ✓ Hooks vs States
- ✓ Types of Hooks
- ✓ Redux
- ✓ Using Redux as state container for react apps
- ✓ React Bootstrap
- ✓ How to deploy ReactJS App





# Our Successful Placement

 Ashwini 9.5 LPA Eclerx	 Sonali 9.2 LPA Onscript	 Gauri 8.5 LPA Eclerx	 Ganesh 8.5 LPA Intellect	 Shubham 8 LPA Mits-Hdfc Ergo	 Swati 8 LPA Sagitech Solutions	 Akshay 8 LPA Sagitech Solution	 Akshay 8.5 LPA Sagitech Solution
 Rupali 7.5 LPA Wipro	 Kushal 7.5 LPA Eclerx	 Sanket 7.5 LPA Spar Solutions	 Yashvanth 7 LPA Acidaes Solutions	 Vallabh 7 LPA Neosoft	 Aman 7.4 LPA Riya Travel	 Ajay 6.8 LPA Semantic	 Sudhir 6.5 LPA Riya Travel
 Darshan 6.5 LPA Siemens	 Ganesh 6.6 LPA Six-Sigma NSDF	 Ajit 6.5 LPA Eclerx	 Ajay 6.8 LPA Semantic	 Ganesh 6.5 LPA NCIET	 Jagruti 6 LPA Yardi Software	 Abhijit 5.5 LPA C-Edge Technology	 Nikhil 5 LPA Aloha Technology

Well Done ! You have proved  
hard work always pays.

## Congratulations!

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