

JOB ORIENTED DIPLOMA COURSES (Software Development & Training)

Why Groot Academy

- Quality Training and focus on Campus Placement
- Certified & Industry Experienced Trainers
- Course Curriculum designed by Industry Experts
- 5,00,000+ Student Connects across India
- Daily Campus Drives & Mega Job Fairs
- 100% Job Assistance with 3100+ Clients

Job Oriented Development Courses

Front End Devlopment (React Js & Angular)

Duration: 3 Months

MEARN Stack Devlopment

Duration: 6 Months

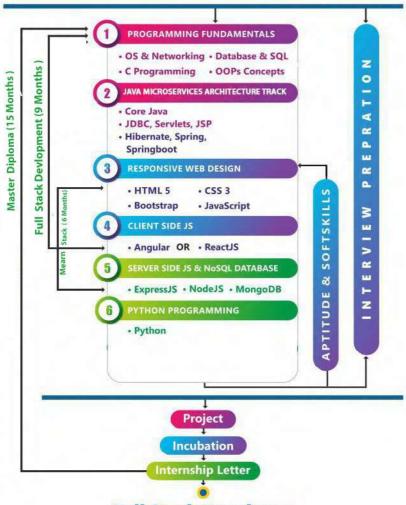
Full Stack Devlopment with Java Back End

Duration: 9 Months

Master Diploma in Software Engineering

Duration: 15 Months

Overview of Development Courses



Overview of Development Courses

JAVA	Diploma (2 Months)	Adv. Diploma (4 Months)	Master Diploma (6 Months)
O.S Concepts	Revision	✓	✓
Database Fundamentals & SQL	Revision	~	~
C Programming	Revision	✓	V
OOPs Concepts	Revision	~	✓
Core Java	✓	✓	V
JDBC, Servlets, JSP	✓	✓	V
Hibernate, Spring, Springboot / MVC,WCF, WPF	×	~	~
HTML 5.0, CSS 3.0, Bootstrap, Javascript	×	~	V
Angular / ReactJS	X	~	V
ExpressJS, NodeJS, MongoDB	×	×	V
Python	×	×	V
Interview Preparation (Online Aptitude, Soft Skill, Mocks)	×	~	~
Project / Incubation	Project	Project	Incubation
6 Months Internship Letter	×	×	V

Syllabus of Development Courses

01. Programming Fundamentals

Introduction to OS & Networking

- · Overview of Operating System
- · Concept of Process and Thread
- Memory Management
- Network Basics
- Classification of Networks
- Network Topologies
- · Network Communication and Protocols
- TCP/IP fundamentals

Database Fundamentals & SQL

- Introduction to Database
- Normalization
- · Introduction to SQL statement
- Built-in functions
- Summarizing results using group functions
- Joins
- · Retrieving Data with Sub-queries
- SET operators
- · Manipulating data and transaction

- · Managing other schema objects
- Managing objects with Data Dictionary Views
- · Manipulating large DataSet
- · Managing Data in Different Time Zones
- Introduction to PL/SQL

C Programming

- Introduction to Programming
- · Data Types, Operators
- Compilation, Linking, Execution, Debugging
- Integrated Development Environment
- Console Input and Output
- Control Structures
- Functions
- Pointers
- Storage classes, Dynamic Memory allocation
- · Arrays, Strings
- File IO
- Structures and Unions
- · Command Line arguments
- Macros

OOPs Concepts

- · What is OOP's
- · Why we need OOP's
- · What is Object?
- Object Characteristics
- · Concept of Classes & Object Creation

02. Java Technologies

Core Java

- Introduction to Java
- · Working with Java
- · Basics of Java
- OOP's Features
- Inner Class
- Reflection
- Wrapper Classes
- Exception Handling
- Multithreading in Java
- I/O Programming & File Handling
- GUI Programming
- · Collection Framework

JDBC (Java Database Connectivity)

- Need of JDBC
- JDBC Driver & types
- JDBC architecture
- JDBC Transaction
- Advance JDBC
- · What is Stored Procedure?
- JDBC using Stored Procedure
- · Data Access Object Design Pattern
- · JDBC application using Swing, DAO

Servlets

- · Overview of HTML, CSS & XML
- Overview on JEE
- Servlet Basics
- Servlet API
- · Session Tracking in Java
- · Session Tracking mechanism
- ServletFilter API

JSP (Java Server Pages)

- Introduction to JSP
- JSP Tag
- · Jsp implicit object
- JSP Specification
- Concept of MVC

Hibernate

- Introduction
 - · Limitation with JDBC
 - · What is ORM?
 - · What is Hibernate?
 - · Hibernate Architecture
- Hibernate Example
 - CRUD Operation Using Hibernate
- · Hibernate with Annotation
- Hibernate Generator classes
- Hibernate Mapping
- Component Mapping
- Inheritance Mapping
- Collection Mapping
- · HQL & Criteria
- · Caching in Hibernate

Spring

- Introduction
 - · What is Spring?
- Spring Features
- Spring Modules
- Dependency Injection
- IoC container
- · What is Bean?
- Spring Core
- Spring DAO
- Spring MVC
- Spring AOP

Spring Boot

- Introduction to Spring Boot
- · Dependency management using POM.xml
- CommandLineRunner
- · Introduction to ORM with JPA
- · Spring MVC with Spring Boot
- · REST with Spring MVC
- Spring Boot Security

03. Responsive Web Design

HTML 5

- HTML Basics: Structure, Elements and Attributes
- · Various Input fields in html
- Tables, Frames, Lists, Layouts
- · Fonts, Colors
- Images
- HTML Forms

CSS 3

- · Styling with CSS
- · Selectors and style definitions
- Properties of CSS
- · Linking HTML & CSS
- · Limitations of normal selectors
- · Types of selectors
- CSS Properties
- CSS pseudo elements
- CSS Animation

Bootstrap

- Introduction to Bootstrap
- · Bootstrap Grid
- Bootstrap Components
 - · What is Bootstrap Components
 - Glyphicons Component
 - Dropdown Menu Component
 - Button Groups and Button Toolbar
 - Navigation Pills & Tabs Components
 - Navbar Component & Responsive Navbar
 - Forms
 - Pagination Component
 - · Labels / Badge Components
 - Jumbotron
 - Alerts & Dismissible Alerts
 - · Progress Bar
 - Media Objects Component
 - · List Group Component
 - Panel Component
 - Bootstrap Plug-Ins

JavaScript

- Java Script Language basics
- Variables, Data Types, Functions, Operators
- Control flow using conditional and Iterative statements
- · Managing HTML DOM and Events
- OOPs in Java Script

04. Client Side JS

TypeScript

- Typescript as Programming Language for Angular
- Trans compilation, Debugging Typescript code
- Classes & Interfaces
- Control Structures
- · Functions & types
- Decorators
- Rest & Spread Operators

05. Server Side IS

ExpressJS & NodeJS

- · Intro to Node.js
- · NodeJS Basics & Global objects
- Node Modules
- File System
- Express Framework
- RESTful APIs
- How Node.js connects to databases
- Connecting to Mongodb databases
- Performing CRUD operations using Node.js

09. Interview Preparation

Mock Interviews & Technical Tests

10. Project / Incubation

- For Diploma Design / Coding Project
- For Advanced Diploma
- Design / Coding Project
- For Master Diploma Project Incubation with Internship Letter

ReactJS

- React JS Introduction
- React JS Introduction
 React JS Architecture
- ReactJS JSX
- ReactJS Styling
- ReactJS Components
- ReactJS States
- ReactJS Props
- Working With React Js Forms
- ReactJS Events
- ReactJS Routers
- Http Client Programming
- Testing, Building & Deployment

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