

JAVA

- **Core Java Programming**
 - Classes
 - Object Oriented Features
 - Java Features
 - Methods, Fields
 - Access Modifiers
 - Setters and Getter methods
 - JDK, JRE, JVM
 - Encapsulation
 - Overloading
 - Constructors
 - String basics
 - This keyword
 - Inheritance
 - Overriding
 - Types of Inheritance
 - Constructor of Inheritance
 - Super keyword
 - Dynamic Method Dispatch
 - Final modifier
 - Abstract modifier
 - Static modifier
 - Interfaces
 - Packages
 - Command line arguments
 - Wrapper classes
 - Nested classes and interfaces
 - Blocks in classes
 - Basics of JVM
 - Exception handling
 - IO
 - Multi-threading
 - Collections framework
 - Garbage collection
 - Features of Java 8
- **Database**
 - MySQL
 - SQL
 - DDL, DML, DCL, TCL
 - Views
 - Joins
 - Subqueries
 - Aggregate Functions
 - PL/SQL
 - Cursors, Triggers, Functions, Procedures
- **UI development**
 - HTML

- Tags, Static Page Creation
 - Doctype, Meta
 - URLs
 - Images
 - Tables
 - Input, Button, Form Fields
- CSS
 - Style, Class Selectors
 - Font, Id Selectors, Text, Border, Padding, Positioning
 - HTML with CSS
- JavaScript
 - Operators, Variables
 - Loops, Arrays, Functions
 - Manipulations
 - Forms, Images
- Bootstrap
 - Grid, Responsive design, Layout
 - Tables, Lists, Forms
 - Groups, Images, Buttons, Navbar
 - Panels, Breadcrumbs, Jumbotron, Dropdowns, Tabs, Carousel
- Angular
 - Class Bindings
 - Style bindings
 - Event bindings
 - Components
 - Services
 - Component interaction
 - Routing
 - Observables
 - Input and output
 - Directives
 - Modules
- **Java Web Development**
 - JDBC
 - Drivers
 - Types
 - Statements
 - Prepared statements
 - Servlet
 - Life Cycle
 - Session Management
 - Config, Context
 - Request, Response
 - JSP
 - Tags
 - Implicit Objects
 - JSP MVC
 - MVC Architecture
- **Springboot Framework**

- Spring vs Springboot
 - CLI, STS, Annotations
 - DI, AOP, JPA, Hibernate, with MySQL
 - With REST
- **ORM - Hibernate, JPA**
 - Generator classes, Dialects, Log4j
 - Mappings
 - JPA vs Hibernate
- **MVC Architecture**
- **REST Services**
 - Components, RS, WS
 - RESTful services with SB
 - SOAP vs REST
- **Microservices Introduction**
- **Methodologies - Agile**
- **Design Patterns**
 - Singleton
- **Software Testing**
 - Manual Testing
 - Unit Testing, Regression, White-box, Component
- **Good to Know**
 - LOG4J
 - GitHub
 - Maven
 - Junit
 - Eclipse