

# DAT - DIPLOMA IN ANDRIOD TECHNOLOGIES

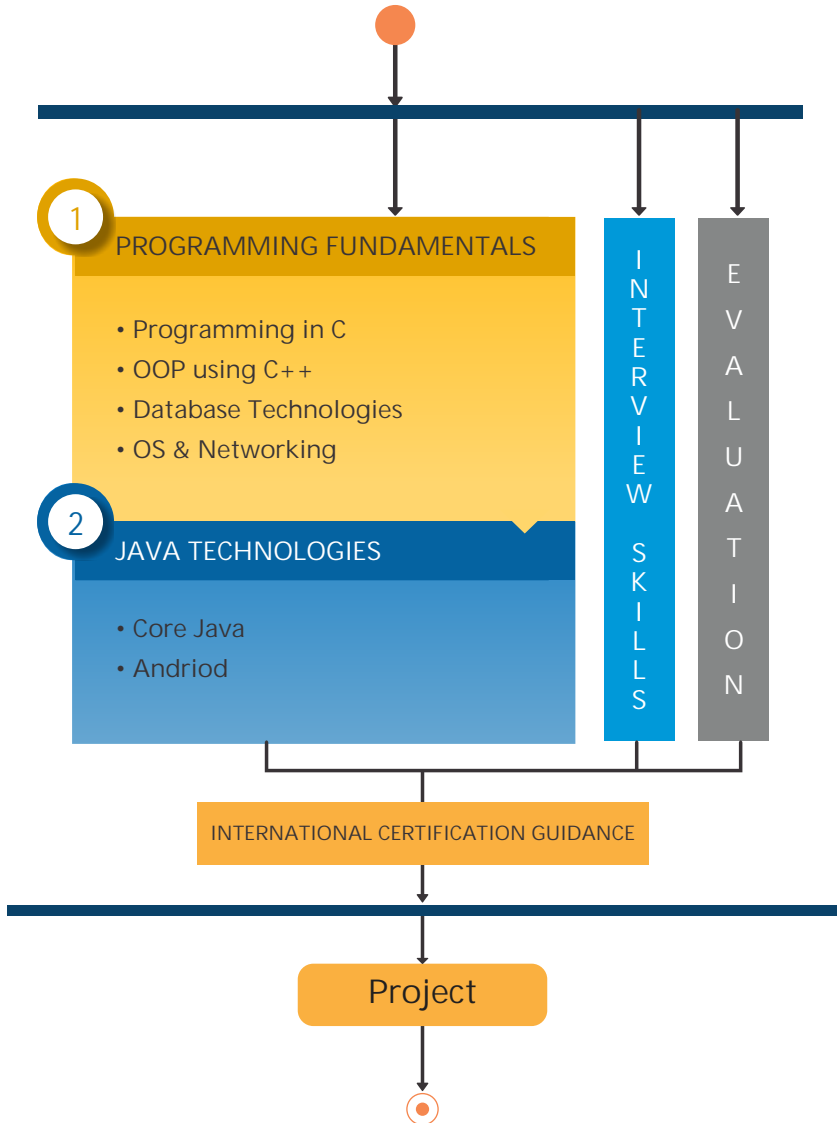
DURATION : 2 Months

ELIGIBILITY : BE | BTech | MCA | MCS | MCM | MSc | BCA | BCS | BSc etc

PRE-REQUISITES :

- Good Knowledge of C, C++ Programming.

COURSE OVERVIEW :



## 1 PROGRAMMING FUNDAMENTALS

### Programming in C

- Introduction, Data Types, Operators
- IDE, Control Structures
- Functions, Pointers, Arrays, Strings
- Structures and Unions
- Command Line arguments

### C++

- Concepts of OOP
- Class and Object, Constructors
- Static Data Member, Member Function
- Inline Function, Friend Function
- Operator Overloading
- Inheritance, Polymorphism
- Exception Handling, Function Templates

### Database Fundamentals & SQL

- Database fundamentals
- Normalization, SQL / PL-SQL
- Stored Procedure, Function, Triggers

### Introduction to OS & Networking

- Overview of Operating System
- Concept of Process and Thread
- Memory Management
- Network Basics & their classification
- Network Topologies, Communication and Protocols, TCP/IP fundamentals

## 2 JAVA TECHNOLOGIES

### Core Java

#### Installation and settings of Java

- JDK, JVM, Classpath etc
- Packages, Eclipse IDE
- OOP in Java
- Inheritance and Polymorphism
- Interfaces
- Exception Handling
- Generics and Collections
- Multi-threading
- Thread Synchronization
- Java Util, Wrapper Classes
- Swing
- Annotations

- Input and Output management
- Managing Files and Directories
- Networking programming
- JDBC
- Handling Transactions

### Android Programming

- Mobile Computing Environments
- Challenges in MAD
- Android -History
- Android -Architecture, Flow, Components, Software Requirement
- Anatomy of Android Applications
- Android Components
- Event-Handling, Layouts
- Intent (Explicit & Implicit)
- Advanced UI (AdapterView), ActivityForResult
- Menus
- Dialogs
- Notifications
- BroadcastReceiver
- ContentProvider
- Sensors
- LocationService
- Services
- Multitouch
- Camera Application

## 3 INTERVIEW SKILLS

- Interview Techniques
- Frequently Asked Questions
- Group Discussion
- Resume Writing
- Mock Test Based on MNC Test Pattern

## 4 EVALUATION

- Technical Assignments
- Technical Test
- Technical Interview

## 5 INTERNATIONAL CERTIFICATION

- Guidance for International Certification

## 6 PROJECT (OPTIONAL)

- Design & Development