

# **Emerging Technologies**

## **Full Stack Android Developer Program**

### **Curriculum**

#### **Program Outline :**

##### **Module 1: Fundamentals of Android Development**

- 1. Introduction to Android Development**
  - Core principles, tools, and industry applications.
- 2. Basic Programming with Java/Kotlin**
  - Understanding and using Java/Kotlin for app development.
- 3. Android Studio Basics**
  - Navigating and using Android Studio for development.
- 4. User Interface Design Basics**
  - Designing basic app interfaces.

##### **Module 2: Advanced Android Development Techniques**

- 5. Advanced Programming with Java/Kotlin**
  - Mastering advanced programming techniques.
- 6. Front-End Development**
  - Implementing front-end logic and functionality.
- 7. Back-End Development**
  - Building robust back-end systems.
- 8. Database Management**

- Managing and integrating databases.

### **Module 3: Practical Applications**

#### **9. Practical Android Development Projects**

- Developing and implementing Android development projects.

#### **10. Networking and APIs**

- Implementing network communication protocols and using APIs.

#### **11. Security in Android Apps**

- Implementing security measures in apps.

#### **12. Business Intelligence Applications**

- Using data for app development decision making.

### **Module 4: Capstone Project**

#### **13. Integration of Learned Skills**

- Apply tools and techniques to real-world app development problems.

#### **14. Advanced Android Development Systems**

- Developing complex Android applications.

#### **15. Cloud App Management**

- Managing apps in cloud environments.

#### **16. AI for Android Development**

- Implementing AI solutions in Android development.

### **Elective Modules**

#### **17. Data Ethics and Privacy**

- Ethical considerations, privacy laws, compliance strategies.

#### **18. Predictive Analytics with App Development Management**

- Building and validating predictive models.

#### **19. AI for App Development Management**

- Implementing AI solutions in app development.

#### **20. Advanced Data Warehousing Techniques**

- Optimizing data warehousing solutions.

#### **21. Data-Driven App Development Decision Making**

- Using data to inform and drive app development strategies.

#### **22. Cloud App Development Solutions**

- Deploying app development management systems on cloud platforms.

#### **23. App Development Project Management**

- Leading app development projects, ensuring successful delivery.

#### **24. Big Data Security**

- Securing data in big data environments.

#### **25. IoT App Development**

- Securing and managing IoT devices and app development.

#### **Websites:**

- <https://chools.in/>
- <https://ramaqchools.com/>
- <https://www.choolsgroup.com/>