

Department : BSAU APPLE iOS APPLICATION DEVELOPMENT CENTRE  
Programme : Certificate Programme in Android Application Development  
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### **Content of the Course:**

#### **Theory**

##### **Module I: Android Development Fundamentals 8**

Android Basics - Android Architecture - Application Framework - The Manifest file - Libraries – Developing - Managing Virtual Devices - Building and Running – Debugging – Testing - Building Blocks - Application Components - Content Providers - Broadcast Receiver - Processes and Threads

##### **Module II: Advanced Concepts in Android 7**

Data storage - SQLite Databases - Localization - User Interface - XML Layouts - Styles and Themes - Web Applications - Multimedia and Camera - Media Playback - Audio Capture – Sensors - App Widgets – Bluetooth - Wi-Fi Direct - Location and map - Network Communication.

##### **Practical 30**

Tools for Android Application Development - Hands on Android Programs– Developing Simple Android Apps - Building and Running Android Apps – Publishing in Google Play Store.

**Total Hours: 45**

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### **HOW WILL THIS PROGRAMME BENEFIT THE STUDENTS?**

The explosive growth of Android applications has created a boom in demand for developers. This certification programme provides comprehensive training in Android application development in the Java language. Students can have good exposure on application design, tools and techniques. The highlight of this certification program is to provide good hands on experience to students on developmental tools so that the students will be able to develop applications that run on Android OS platform. Students will be able to develop applications that run on the Android OS platform and acquire the advanced development skills needed to release their own high-quality App to the Google Playstore.