

**SREENIVASA INSTITUTE of TECHNOLOGY and MANAGEMENT STUDIES**

**III MCA - I Semester**

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**16MCA313**

**MOBILE APPLICATION USING ANDROID**

**Course Objectives:**

- To get awareness about Basic Structure of Android OS with respect to Mobile Applications, Mobile devices and Tools.
- To get awareness about various components and uses interface, services and Databases.

**Syllabus:**

**UNIT I: Introduction**

Background, Android: An Open platform for mobile development, Native Android Applications, Android SDK Features, Open Handset Alliance, Why Develop for Mobile and Android, Development Framework, Types of Android Applications, Developing for Mobile and Embedded Devices, Android Development Tools.

**UNIT II: Creating Applications**

Application Manifest File, Using Manifest Editor , Externalizing Resources, Android Application Life Cycle, Application Priority and its States, Android Application Class, Android Activities.

**UNIT III: Building User Interfaces & Databases**

Fundamental Android UI Design, Layouts, Fragments, Creating new Views, Adaptors, Android Database, SQLite, Content Values and Cursors, Working with SQLite Databases.

**UNIT IV: Content Providers & Services**

Creating & Using Content Providers, Adding search to your Application, Native Android Content Provider, Introducing services, Using Background Threads, Using Alarms.

**UNIT V: Android Components**

Action Bar, Menus & Action Bar Action Items, Dialogs, Notification, Designing, Collection view Widgets, Live Folders, Quick Search Box, Creating Application Widgets.

## Course Outcome:

- Students are inculcated with the knowledge of developing mobile Apps using Android

## TEXT BOOK

1. Professional Android 4 Application Development, Reto Meier, Wiley India , 2012.

## REFERENCES

1. Android Studio Development Essentials, Neil Smyth, Techopedia, 2014.
2. Android Programming Succinctly, Ryon Hodson, Syncfusion Inc, 2014.

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