

## IV B.Tech I SEMESTER

## JNTUA COLLEGE OF ENGINEERING (AUTONOMOUS) PULIVENDULA

19ACS75a-MOBILE APPLICATION DEVELOPMENTOpen Elective-III

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**Course Objectives:**

- Android Application Development course is designed to quickly get you up to speed with writing apps for Android devices. The student will learn the basics of Android platform and get to understand the application lifecycle

**UNIT – I:****8 Hrs**

**Introduction Android Programming:** What is Android, Activities, Linking Activities Using Intents, Fragments, Calling Built – in Applications using Intents, Displaying Notifications.

**Learning Outcomes:**

At the end of this unit, the student will be able to

- demonstrate their understanding of the fundamentals of Android operating systems **L2**
- demonstrate their skills of using Android software development tools **L2**

**UNIT – II:****8 Hrs**

**Android User Interface:** Understanding the Components of a Screen, Adapting to Display Orientation, Managing Changes to Screen Orientation, Utilizing the Action Bar, Listening for UI Notifications.

**Learning Outcomes:**

At the end of this unit, the student will be able to

- demonstrate their ability to develop software with reasonable complexity on mobile platform. **L3**
- demonstrate their ability to deploy software to mobile devices **L3**

**UNIT – III:****8 Hrs**

**Designing User Interface with Views:** Basic Views, Picker Views, Using List Views to Display Long Lists.

**Learning Outcomes:**

At the end of this unit, the student will be able to

- demonstrate their ability to debug programs running on mobile devices **L4**
- demonstrate their ability to deploy software to mobile devices **L4**

**UNIT – IV:****7 Hrs**

**Displaying pictures and menus with views and Data Persistence:** Views to Display pictures, menus with views, additional views, saving and loading user preferences, persisting data to files, creating and using databases.

**Learning Outcomes:**

At the end of this unit, the student will be able to

1. demonstrate their skills of using Android software development tools **L4**
2. demonstrate their ability to develop software with reasonable complexity on mobile platform **L5**

**UNIT – V:****08Hrs****Content Providers:** Sharing data in android, using a content provider, creating your own content providers.**Messaging and Networking:** SMS Messaging, Sending E-Mail, Networking**Location-Based Services:** Displaying Maps, Getting Location Data.**Learning Outcomes:**

At the end of this unit, the student will be able to

- demonstrate their ability to deploy software to mobile devices **L5**
- demonstrate their ability to debug programs running on mobile devices **L5**

**Text Books:**

1. Beginning Android 4 Application Development, Wei-Meng Lee, Wiley India
2. Beginning Swift Programming, Wei-Meng Lee, December 2014, ISBN: 978-1-119-00931-3

**Reference Books:**

1. Enterprise J2ME: Developing Mobile Java Applications, Michael Juntao Yuan, Pearson Education, 2004.
2. Android Application Development for Java programming by James C. Sheusi, Cengage Learning
3. Android A Programmers Guide by Jerome DiMargio, TMH.

**Course Outcomes:**

At the end of this Course the student will be able to

1. demonstrate their understanding of the fundamentals of Android operating systems **L3**
2. demonstrate their skills of using Android software development tools **L4**
3. demonstrate their ability to develop software with reasonable complexity on mobile platform **L5**

