



AL MUSANNA COLLEGE OF TECHNOLOGY
Educational Technology Center
Short Term Courses - (AY2018 - '19)

Course Name : Mobile Application	
Pre Requisite : Basic JAVA, mathematical & logical problem solving skills	Eligibility: Diploma, Advanced Diploma or Bachelor(any specialization with basic JAVA Knowledge)
Introduction: Understand mobile operating systems & Develop real time mobile and wireless computing applications, which can help the students to show their programming skills for course project.	
Objectives: End of this course, you should be able to	
<ul style="list-style-type: none"> ➤ Analyze mobile operating systems ➤ Develop, test, and debug software for mobile and wireless devices ➤ Work with the various layout controls ➤ Use database to store, manage, and share application data 	
Topics	Methodologies
1. Introduction to Mobile Computing and its Components: The first session consist of <ul style="list-style-type: none"> - Explain the benefits of Android OS - Create a simple android application - Examine the different parts of android application. 	Practical
2. The Anatomy of an Android Application: <ul style="list-style-type: none"> - Illustrate the building blocks of Android Application - Analyze the life cycle of android application - Construct the Android applications with different controls for making an application for arithmetic operations. 	Practical
3. Making an application for Calculator	Practical
4. Creating Layouts Using XML Resources: This includes making application using different layouts. <ul style="list-style-type: none"> - Android Intents - Android Widgets 	Practical
5. Making an application for to perform Database operation: This includes introducing SQLite Database. <ul style="list-style-type: none"> - Introducing DatabaseHelper class - Performing Insert, Update, Delete and Search operations on SQLite. 	Practical
Software & Hardware Tools: Android Studio	