General Information										
Course Code	ITEC 343	Level/Year	6/3	Required (R) / Selected Elective (SE)		R				
Credit Hours	Theory	2	Lab	1	Total	3				
Prerequisites	ITEC342	Course Coordinator		Shazia Ali						
Corequisites	Nil	Track Leader		Dr. Sivamalar						

Course Code: ITEC343

Course Description

The Mobile Application Development course is designed to provide students with a comprehensive understanding of mobile app development concepts, tools, and techniques. This course introduces mobile application development for the Android platform. Android is a software stack for mobile devices that includes an operating system, middleware, and key applications. The Android SDK provides the tools and APIs necessary to begin developing applications on the Android platform. Students will learn skills for creating and deploying Android applications, with particular emphasis on software engineering.

Course Objectives: On completion of the course, the student will be able to:

This course will develop the students' ability to:

- Understanding Mobile application development concepts
- Explore the architecture of Android.
- Use android studio for Android application components.
- Understand activities and apply various components.
- Discover screen components and layouts.
- Exploit different views for the android application.
- Develop apps for android devices.
- Testing and debugging mobile applications

Course Contents				
List of Topics	Weeks			
CH 1: Introduction to Mobile application	1,2			
CH 2: Getting Started with Android	3,4,5			
CH 3: Getting to Know the Android User Interface	6,7			
CH 4: Designing Your User Interface with Views	8,9			
CH 5: Displaying Pictures and Menus with Views	10,11			
CH 6: Data Persistence	12,13			

CH7: Testing & debugging mobile applications

14,15

Textbook

Required Textbook---Beginning Android Programming with Android Studio, 4th Edition, 2016, Jerome DiMarzio, ISBN: 978-1-118-70559-9

Reference Materials

Headfirst Android Development- O'Reilly- 2nd Edition, Dawn Griffiths & David Griffiths ISBN: 978-1-491-97405-6

Course Learning Outcomes									
CLO		Mapped PI							
CLO#01	Identify the var fundamentals o purposes and limobile applicat	PI 1.1, PI 1.2							
CLO#02	Explain the An ability to build, framework	PI 2.2							
CLO#03	Design an Andappropriate UI	PI 2.1							
CLO#04	Apply technique for storing files application and	PI 2.3							
CLO#05	Create an And showcasing tea	PI 3.2,PI 3.3							
CLO-PI-SO Mapping									
	SO-1	SO-2	SO-3	SO-4	SO-5	SO-6			
CLO#01	PI 1.1, PI 1.2	-	-	-	-	-			
CLO#02	-	PI 2.2	-	-	-	-			
CLO#03	-	PI 2.1	-	-	-	-			
CLO#04	-	PI 2.3	-	-	-	-			
CLO#05	-	-	PI 3.2,PI 3.3	-	-	-			