Course Name	MOBILE APPLICATION DEVELOPMENT	Course Code	ITEC343		
Credit Hours	3	Contact Hours	Lec	Lab	Total
			2	2	4

Offered as	☐ University Requirement ☐ College Requirement ☒ Program Requirement ☒ Core ☐ Elective
	☒ ITEC ☐ COMP ☐ CNET

Level	6	Prerequisite	ITEC342

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: Upon completion, the student will be able to:
- Explain the fundamental concepts of mobile application development.
- Describe the architecture of the Android operating system.
- Utilize Android Studio to implement various Android application components.
- Implement activities and integrate relevant Android components within an application.
- Design user interfaces using screen components and layout managers.
- Apply different view elements effectively within Android applications.
- Develop functional Android apps for mobile devices.
- Test and debug mobile applications to ensure functionality and performance.

Assessment Methods	☒ Assignment-1	10%	☒ Mid Exam	15%	☒ Mini Project	15%
			☒ Lab Exam	20%	☒ Final Exam	40%

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

References:
- Head First Android Development- O'Reilly- 2nd Edition,Dawn Griffiths & David Griffiths ISBN: 978-1-491-97405-6
- Introduction to Android Application Development: Android Essentials, 5th Edition, Joseph Annuzzi, Lauren Darcey, Shane Conder, 2015, Addison-Wesley Professional. ISBN-10: 0-13-438945-X | ISBN-13: 978-0-13-438945-5