

GUJARAT UNIVERSITY

K. S. SCHOOL OF BUSINESS MANAGEMENT
[Five Years' (Full-time) Integrated Degree Course]

Semester-9 [M.Sc. (CA & IT)]

Subject Code: - KS_C_CC-595

Subject Name: - Mobile Application Development

Course Credit: - 3

Objective:-

Looking at the recent growth of M-Commerce and a shift from E- Commerce to M-Commerce, there is market demand for Mobile App developers. Focusing on the same an **open source platform like Android** would serve the purpose. The course assumes a prior knowledge of object-oriented concepts of Java Programming Language and a bit of XML. The course would aim at educating students with developing most of the different types of Android Applications

.Unit No.	Course Content	Weight-age (%)
1	Introduction to Android and Android fundamentals History of Mobile Software Development, Platforms other than Android used for Mobile Application development, The Open Handset Alliance, The Android Platform, Understanding the Android Software Stack (Android Architecture), Android SD Building a sample Android application, Anatomy of Android Applications, Android terminologies (Activity life-cycle, Using Intent and Intent Filters, Receiving and broadcasting Intents)Managing Application resources in a hierarchy, Working with different types of resources Working with Services, Service life-cycle and types of Services	(20%)
2	Android User Interface Design Essentials User Interface Screen elements Designing User Interfaces with Layouts Drawing and Working with Graphics and Animation	(20%)
3	Using Common Android APIs – Part I Using Android Data and Storage APIs Managing data using SQLite Sharing Data between Applications with Content Providers	(20%)
4	Using Common Android APIs – Part II Using Android Networking APIs Using Android Web APIs-JSON Parsing Using Android Telephony and SMS APIs	(20%)

5	Advance Android Application Development Using Android Location-based Services APIs Using Android Multimedia APIs Using Android 3D Graphics APIs Working with Notifications	(20%)
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Recommended Lecture Scheme: Approximately 40 to 45 hours in a semester

Recommended Practical Scheme: Project Development on KS_C_CC-598

Assignment: Minimum 5 assignments should be given..

Main Reference Books:

1. Android Wireless Application Development
By Lauren Darcey and Shane Conder, Pearson Education, 2nd ed. (2011)

Reference Books:

1. Professional Android 2 Application Development
By Reto Meier, Wiley India Pvt Ltd (2011)
2. Beginning Android
By Mark L Murphy, Wiley India PvtLtd(2009)
3. Pro Android
By Sayed Y Hashimi and Satya Komatineni, Wiley India Pvt. Ltd(2009)