Course Title: Intro. to Android Applications

Duration: Three (3) Days

Class Schedule: 9:00am to 5:00pm

Total Hours: 21 Hours

Prerequisites: Java Programming

Course Contents:

Day 1:

1. Tools and Basics
   - Installing Android SDK, Prerequisites and Eclipse
   - Test Drive: Hello World

2. Ingredients of an Android Application
   - Activities, Intents, and Tasks
   - Other Android Components: Service, Content Providers, BroadcastReceiver
   - Static Application Resources and Context: Application Manifests, Source Tree
   - Component Life Cycles
   - Packaging Android Application

Day 2:

3. Effective Java for Android
   - Android Framework: Android Libraries and Extending Android
   - Android Framework
   - Building a View
   - Android GUI Architecture: Model, View, Controller
   - Wiring Up the Controller

Day 3:

4. Handling and Persisting Data
   - Overview Relational Database
   - SQLite and SQL Language
   - Android Database Classes

5. Using Content Providers
   - Understanding Content providers
   - Writing and integrating a Content provider

6. Visualizing Activity LifeCycle
Optional:

7. Advanced Topics (can be optional or select few from below)
   - Multimedia: Audio, Video
   - Location and Mapping
   - Sensors, Speech, Gesture