**Begin**  
Activity  
Layout  
Custome View Adapter  
Data Storage : *SQLite*  
Struct Of Project : *org.cnc.projectname, org.cnc.projectname.views, org.cnc.projectname.adapters, org.cnc.projectname.databases*  
  
**Intermediate**  
Working with webservice : *parse XML, JSON*  
Working in background: *Thread, AsynTask, TimerTask ...****new***  
Intent  
Google-map : marker, tap, add location, gps...***new***  
Service : *Broadcast service, Service*  
Widget  
Data Storage : *Content Provider, Internal File (Cache), External File, Share Preferences*  
Localtion : *GPS, Network Provider ...*  
Touchscreens : *MotienEvents, Multi-touch ...*  
  
**Advanced**  
Custom View : *how to draw a view?*  
System, Telephony APIs, Media Framework, Camera ...  
Working With XML : *Style, Shape …*  
Touchscreens : *example with pinch zoom*  
  
**Research And Development in future:**  
  
QRCode → seminar trong thứ 7 tuần này  
Java native interface  
  
Service : AIDL Services  
Near Field Comunication  
Augmented reality - ***important***  
Media stream : mms, http, rtsp; stmp, stmps... ***new***  
In-app billing (Working in device, not emulator) ***new***  
  
**Documents**  
  
Apress - Android Essentials (2008)  
Apress - Beginning Android (2009)  
Apress - Pro Android (2009)  
Apress - Pro Android 2 (2010)  
Wrox - Professional Android Application Development (2008)