Silabus Pemrograman untuk Perangkat Bergerak Dasar
D3 Teknik Informatika, Telkom University

Minggu	Sesi Teori (kelas)	Sesi Praktikum (lab)
1	Introduction to Mobile Programming - Mobile, desktop and web app comparison - Mobile OS platform: Android vs others - What is Android? - Android architecture, building blocks - Android Development Tools + docs	Introduction to Android App Development - Tools: Java Development Kit, Android Studio, Android SDK - Creating new project: Hello World - Running app in emulator and real device - Importing Android project
2	Android Projects Fundamentals - Gradle scripts: Android API levels, app version, proGuard, dependencies - Android Manifest: application, permissions, activity, intent filter MAIN + LAUNCHER - Java scripts: package, class - Resource: drawable, layout, menu, values	Android App Fundamentals - Project structure: Hello World Revisited - Working with layouts: LinearLayout, RelativeLayout, CoordinatorLayout - UI widgets: text controls, button controls, toggle, spinner, etc. - Supporting different language, screens
3	Working with Activity - Activity life cycle - Starting another activity - Transferring data via putExtra and startActivityForResult - Starting activity from another app	Working with Activity - Activity life cycle - Starting another activity - Transferring data via putExtra and startActivityForResult - Starting activity from another app
4	Notifying Users - Toast - Status bar notification - Dialog: AlertDialog, custom dialog - Logging	Notifying Users - Toast - Status bar notification - Dialog: AlertDialog, custom dialog - Logging
5	Processing Data in Background - AsyncTask - HttpURLConnection (GET and POST) - ProgressBar - XML parser - JSON parser	Processing Data in Background - AsyncTask - HttpURLConnection (GET and POST) - ProgressBar - XML parser - JSON parser
6	Presentasi Ide Tugas Besar	
7	Saving Data (1) - Shared preferences - Preferences activity - Files access in internal storage - Files access in external storage	Saving Data (1) - Shared preferences - Preferences activity - Files access in internal storage - Files access in external storage
8	Working with List - ListView, GridView and RecyclerView - Adapters - Adding header and footer - ExpandableListView	Working with List - ListView, GridView and RecyclerView - Adapters - Adding header and footer - ExpandableListView

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	Assessment 1 **(Coding on The Spot)**	
9	Working with Menu - Options menu and app bar - Context menu and contextual action mode - Popup menu	Working with Menu - Options menu and app bar - Context menu and contextual action mode - Popup menu
10	Working with Fragment - Creating a Fragment - Communicating with Activity - Navigation Drawer Activity - Tabbed Activity	Working with Fragment - Creating a Fragment - Communicating with Activity - Navigation Drawer Activity - Tabbed Activity
11	Saving Data (2) - SQLite Database - Cursor	Saving Data (2) - SQLite Database - Cursor
12	Monitoring dan Evaluasi Tugas Besar	
13	Location Aware App - Getting the Last Known Location - Receiving Location Updates - Displaying a Location Address - Using Google Maps	Location Aware App - Getting the Last Known Location - Receiving Location Updates - Displaying a Location Address - Using Google Maps
14	Publishing Apps - Create certificate - Using ProGuard - Generate Signed APK - Publish to Play Store	Publishing Apps - Create certificate - Using ProGuard - Generate Signed APK
	Assessment 2 **(Presentasi Tugas Besar)**	