



COURSE INTRODUCTION

COURSE OVERVIEW

- **Subject name:** Mobile App Development
- **Code:** 503074
- **Credit:** 3(2,1)

COURSE OBJECTIVES

- Provide students the overview of programming on mobile devices in general.
- Provide students the in-depth knowledge about programming on Android mobile operating system.
- Students can apply the learned knowledge to build the applications that can run on the Android mobile phones.

COURSE OUTLINE

- Introduction
- Android lifecycle
- GUI
 - ✓ Simple widgets: EditText, Button, TextView, Toast, ...
 - ✓ Layouts
 - ✓ List-based widgets
 - ✓ Complex widgets: Fragments, Tab, Menus, ...
- Data interaction:
 - ✓ Data Persistence
 - ✓ SQLite
 - ✓ Files
 - ✓ Web Service
- Intent
- ContentProvider

COURSE OUTLINE

- Thread, AsyncTask
- Service
- BroadcastReceiver
- Networking, webservice
- Notifications
- Location Service
- Google map
- Seminar

BOOKS & REFERENCES

- Main book:
 - ✓ Beginning Android Application Development (Wei-Meng Lee).
- Additional books:
 - ✓ Android Application Development: Programming With The Google SDK, O'Reilly Media, Inc
 - ✓ Professional Android Application Development (Wrox Programmer to Programmer), Wrox

BOOKS & REFERENCES

- [1] Dave MacLean and Satya Komatineni. 2012. Pro Android 4.
- [2] Wei-Meng Lee. 2012. Beginning Android 4 Application Development
- [3] Reito Meier. 2012. Professional Android 4 Application Development
- [4] Joel Murach. 2013. Murach's Android Programming

BOOKS & REFERENCES

- Website android developer:
✓ <http://developer.android.com/index.html>

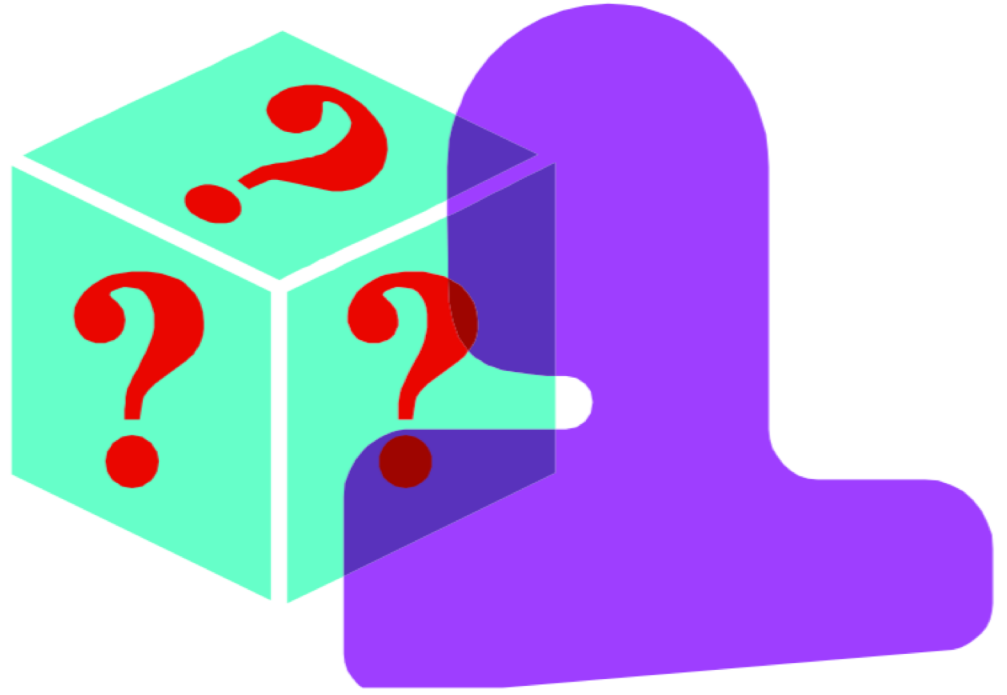
Grades

- Progress I: **10%**
 - ✓ 10 in-class/homework exercises
- Midterm exam: **20%**
 - ✓ In LAB
- Progress II: Presentation **20%**
 - ✓ Work in group
 - ✓ Research cross-platform frameworks
- Final Report: **50%**
 - ✓ Work in group
 - ✓ Build a medium/big professional Android application

Regulations

- Follow the general rules/regulations of the Faculty & TDT University
- No essay submission and presentation
- Absent $\geq 20\%$ the lessons
- Progress I: 50% 0 point

Thanks for being here



Questions?