

Embedded Systems

Course Introduction

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課程目標

- 培養手機環境的程式設計能力
- 累積團隊合作開發的能力
- 體驗創意過程



本課程的一些提醒

1. 本學期課程在程式實習上將以pair programming的方式進行。各位要找好組員，每組最多2人。
2. 閱讀Android相關資料。Android的資料非常豐富，中英文都有。並且熟悉 Android Studio。
3. 同學需要自習Java程式設計。因為時間有限，課程中無法針對Java來講解。
4. 組員要能與你一起激發創意。

What you will experience ...

- Android programming
- Project development
- Proposal writing
- A complete software system
- Presentation
- Team work
- Cross-domain participation

課程教材

- Trish Cornez and Richard Cornez, **Android Programming Concepts**, Jones & Barlett Learning, 2017.
- 參考資料
 - DiMarzio, J. F., Beginning Android programming with Android Studio, Wrox, John Wiley & Sons, c2017.
<https://onlinelibrary.wiley.com/doi/book/10.1002/9781119419334>
 - Android application development for the Intel platform, Berkeley, CA : Imprint: Apress, 2014.
 - GUI Design for Android Apps, Berkeley, CA : Imprint: Apress, 2014.

Evaluation

- Lab: 50% (~10)
- Term Project: 20%
 - Proposal: 5%
 - Demo: 10%
 - Report: 5%
- Midterm and Final: 30%

Tentative Course Schedule

Week 1	Course Introduction	
Week 2	Introduction to Android	
Week 3	Building User Interfaces	
Week 4	Activity and Intent	
Week 5	Activity and Intent	
Week 6	Fragments, ActionBar, and Menu	
Week 7	Graphics, Drawings, and Audio	Project Proposal
Week 8	Graphics, Drawings, and Audio	
Week 9	Midterm	

Tentative Course Schedule

Week 10	Threads, Handlers, and Programmatic Movements	
Week 11	Threads, Handlers, and Programmatic Movements	
Week 12	File Storage, Shared Preferences, and SQLite	
Week 13	Networking and Multimedia/App Testing	
Week 14	Project Demo	Project Demo
Week 15	Happy New Year	
Week 16	Project Demo	Project Demo
Week 17	Final Exam	
Week 18	Case Studies	

- Any change is subject to the announcement.

課程公約

- **不可抄襲**：任何報告、程式、以及相關作業，除非事先允許外，不可抄襲
 - 該次作業0分
 - 嚴重情況將至該次作業為止，所有過往作業0分
- **不可作弊**：考試作弊者重修
- **不可遲交**：任何報告、程式、以及相關作業
 - 除請假核可外，遲交的作業視同放棄0分
- **不可含有病毒**：任何報告、程式、以及相關作業
 - 該次作業0分
- **維持課堂良好秩序**：
 - 不吃食物，不隨意交談，上廁所舉手，...

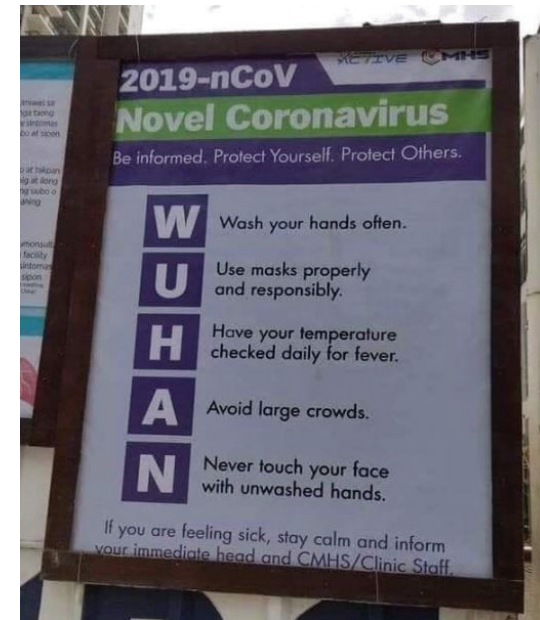
分組座位

- 2位同學一組
- 實體上課
 - 組別固定座位
 - 如有人數限制，採分流上課方式。單週由學號較小的同學上課，雙週由學號較大的同學上課。



Reminding

- 若有感冒、咳嗽、發燒等呼吸道相關症狀，請居家休養。
- If you have respiratory-related symptoms such as a cold, cough, or fever, take a rest at home.
- 如有新冠肺炎相關情況，請立即通知。
- If you have any conditions related to coronavirus, please notify the teacher immediately.



Office Hours

- 104,203,204,404
- 或另外約定時間
- Our TA
 - 1405B 系統實驗室
 - 林彤樺、林純宇

Q & A