

# Mobile Programming



Course overview



# Intro

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## ■ Tutor

- Jin-Woo Jeong
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- Office: Frontier 610

## ■ Class homepage

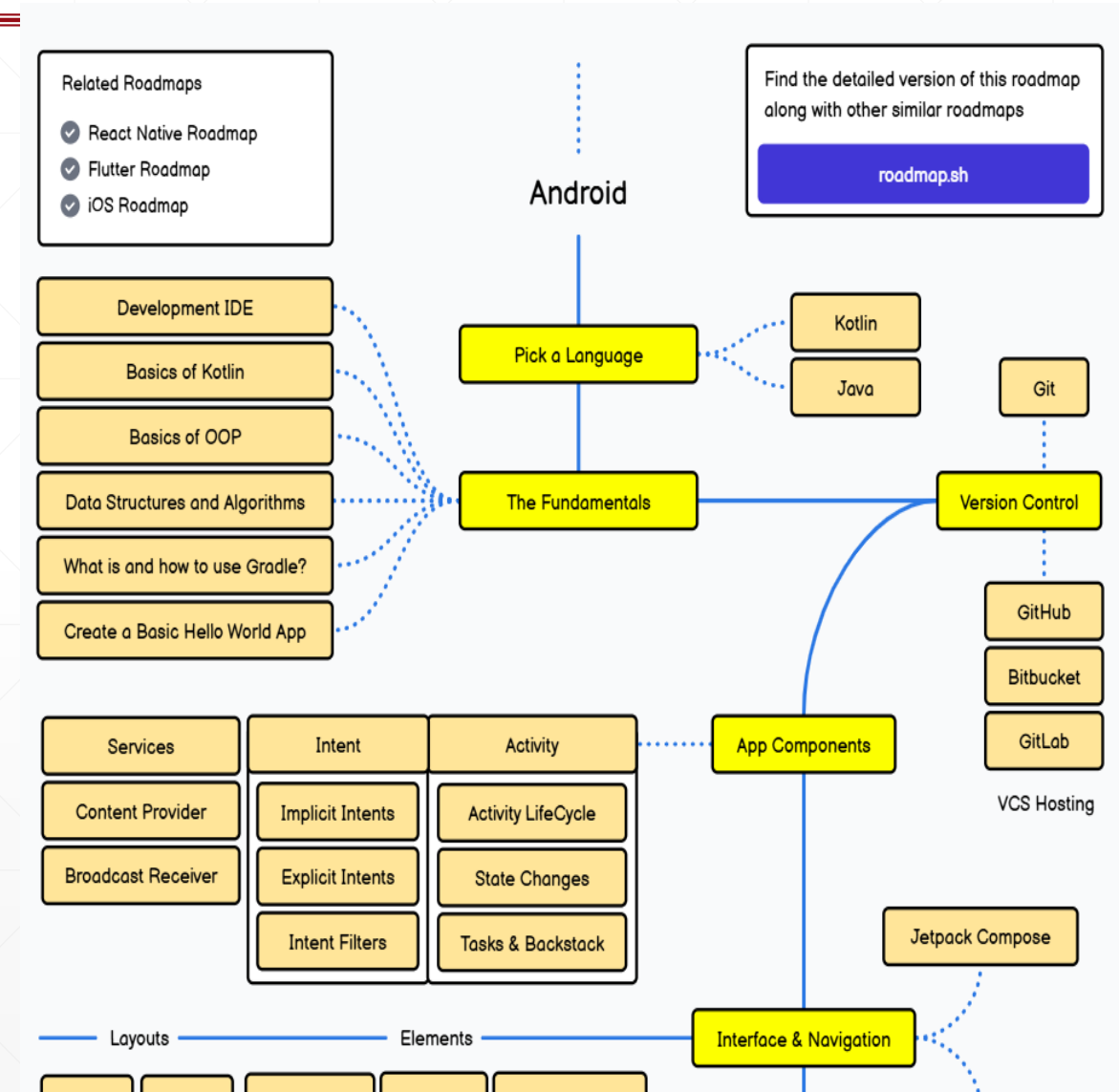
- E-class (<http://eclass.seoultech.ac.kr>)

## ■ Prerequisites

- Java → Kotlin
- Web/Cloud, Database skills

# Android Developer Roadmap

■ <https://roadmap.sh/android>



# Goal

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## ■ Kotlin Basics

- Understand Kotlin basics
- Understand Kotlin's flow control, collections, etc.
- Understand Kotlin OOP concepts

## ■ Mobile App programming with Android

- Understand Android OS
- Utilize Android programming environment
- Develop mobile applications using Android APIs

# Curriculum

Week	Contents	Lecture Methods, Assignments, Contents of Evaluation
1	Course Introduction, IDE setup Kotlin Basics	
2	Kotlin Basics	
3	Kotlin Basics	
4	Android App Basics	
5	Layout & Navigation	
6	Activity & Fragment	Project Overview
7	Midterm exam	
8	Project proposal presentation	

(subject to change)

# Curriculum

9	UI (Part I)	
10	UI (Part II)	
11	Data & Permissions	
12	Interaction with Web	
13	Interaction with Device (Part I)	
14	Interaction with Device (Part II)	
15	Project final presentation	

(subject to change)

# Curriculum (cont'd)

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## ■ Lecture + Lab

- Win11, Kotlin, Android 13+ (AVD can be used)

## ■ Assignment

- Programming practices
- Submission: e-class + github (optional)

## ■ Grading

- Assignment 25%
- Project 50%
- Midterm exam (written+lab) 25%

# Project (50%)

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## ■ Develop a mobile application based on your own

- Scenario
- Design
- Implementation
- Report/Presentation

## ■ Team-based project

- Github project management (optional, but recommended)
  - or any other project management solutions should be used



# Note

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## ■ No cheating, please!

- All assignments scores throughout the semester will be considered 0 (zero)
- This also applies to the original source owner

## ■ Reference

- <https://developer.android.com/docs>
- Online lectures/guides/tutorials

# More Important Note

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## ■ Focus on Core

- Tooo.....many components there!
- Impossible to cover all the things about Android

## ■ Then, a **self-motivated study for project development!**

- More widgets?
- More layouts?
- More device features?
- More 3<sup>rd</sup> party libraries?
- More platform?
- ...

# Q&A

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## ■ This week (+eClass video)

- IDE Setup
- Introduction to Android
- Homework #1

## ■ Next week

- Kotlin Basics Part I (eClass video)
- Kotlin Basics Part II (eClass video)