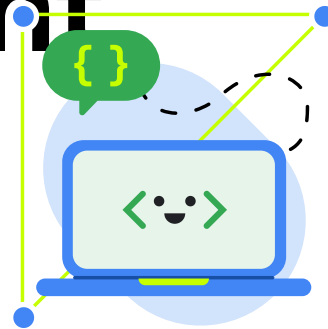


Teach Android Development

Shape the knowledge for learners to build apps for Android, a platform with billions of active Android devices in the world.



Teach a Class (#teach-a-class)

Lead a Study Jam (#lead-a-study-jam)



**Motivate
students with
tangible,
relevant
examples**



**Android
development
is Kotlin-first**

Kotlin is the
recommended



**Prepare
students for
exciting
career
opportunities**

There are over 2.6 billion active Android users in the world. As the mobile industry continues to grow globally, there has never been a better time for students to learn how to create and influence the technology they use in their daily lives.

programming language for building new Android apps. For students who are learning programming for the first time, Kotlin's code safety features and concise syntax allows them to focus on learning core programming fundamentals.

Android development is a valuable skill set that is in-demand around the world. There are a variety of careers within the Android ecosystem, and opportunities to create new businesses.

Hear from professors who are already teaching Kotlin (<https://www.youtube.com/watch?v=MQPeEOf3G7A>) as part of their curriculum.

Teach a Class



The Android Development with Kotlin course is designed for educators to teach the fundamentals of Android development with the Kotlin programming language in a classroom setting.

Prerequisites

Learners are expected to be familiar with object-oriented programming language, how to use an IDE, and how to use GitHub. No prior experience with Kotlin or Android is necessary. It is recommended that educators complete the course content before teaching it.

Lecture Slides and Code Samples

The course is 13 lessons long with each lecture being approximately 1 hour long. Each lecture is accompanied by 2 hours of hands-on codelabs for learners to complete on their own. If you're ready to start teaching Android, use these materials to get started today. We have lessons covering the Kotlin language, introduction to Android development, UI basics, Android app architecture, and many others. Use the following slides to deliver lectures in a classroom setting.

Lecture Slides and Code Samples

Lesson	View Slides	View App Sam
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Note: Lessons 1 to 3 cover the Kotlin language, and you Android app in Lesson 4.

Introduction Android Development with – Kotlin
(<https://goo.gle/3sPw3Fz>)

Lesson 1 Kotlin Basics –
(<https://goo.gle/3sSg7lK>)

Lesson 2 Functions –
(<https://goo.gle/2Y5Pv2D>)

Lesson 3 Classes and Objects –
(<https://goo.gle/2Y2S8SO>)

Lesson 4 Build your first Android app Dice Roller App
(<https://goo.gle/3caByJb>) (<https://github.com/android-training/android-roller-with-button>)

Lesson 5 Layouts Tip Calculator App
(<https://goo.gle/2NqsrcN>) (<https://github.com/android-training/android-app-solution>)

Lesson 6 App Navigation Android Trivia App
(<https://goo.gle/3sONg1R>) (<https://github.com/android-training/android-apps/tree/master>)

Lesson 7 Activity and Fragment Lifecycle Dessert Clicker App
(<https://goo.gle/3o43QH>) (<https://github.com/android-training/android-apps/tree/master>)

Lesson 8	<u>App Architecture (UI Layer)</u> (https://goo.gle/3iLOiJ5)	<u>Unscramble App</u> (https://github.com/android-training/android-app/tree/starter)
Lesson 9	<u>App Architecture (Persistence Layer)</u> (https://goo.gle/3iLIWvO)	<u>TrackMySleepQu</u> (https://github.com/android-training/android-apps/tree/master)
Lesson 10	<u>Advanced RecyclerView use cases</u> (https://goo.gle/3qIPcqP)	<u>RecyclerView Ap</u> (https://github.com/android-training/android-apps/tree/master)
Lesson 11	<u>Connect to the Internet</u> (https://goo.gle/2Nlr9jc)	<u>MarsRealEstate /</u> (https://github.com/android-training/android-apps/tree/master)
Lesson 12	<u>Repository pattern and WorkManager</u> (https://goo.gle/365eUOa)	<u>WorkManager Ap</u> (https://github.com/android-workmanager/workmanager/)
Lesson 13	<u>App UI Design</u> (https://goo.gle/3qMZ4A2)	<u>Shrine App</u> (https://github.com/android-components/material-components-codelabs/tree/master)
	<u>Download all slides</u> (https://goo.gle/3iKdGx4)	–

Learning Pathways

In parallel with the slides, use these [learning pathways](https://g.co/android/student) as assignments for learners. Once completed,

learners can take quizzes and earn badges for each lesson.

Professor Testimonials



As it's mostly a hands-on course, students learn implementations which helps them in their placements in Mobile app companies.

Dr. Kavita S. Oza
Shivaji University



Students should learn an app development language for [developing] mobile apps. Kotlin is most suitable to be learned.

Dr. Satvir Singh
*I. K. Gujral Punjab
Technical University*



Compared to other languages a student may learn, Kotlin is better to understand and good for implementation.

Dr. Priyank Singhal
*Teerthanker
Mahaveer University*

For additional resources, check out the [JetBrains Kotlin for Education](https://kotlinlang.org/education/) (<https://kotlinlang.org/education/>) page.

Lead a Study Jam

The Android Study Jams program is designed for a group of people in the community to come together to learn how to build Android apps.



Prerequisites

No prior experience with programming is necessary. For Study Jams organizers, it is not required to be an expert on the material or to deliver lectures because participants work through a self-paced online curriculum provided by Google. However, we recommend that organizers complete the content before leading the group.

Guides

These materials can be used in a meetup group, after-school program, or among any group of peers. At the end of the program, you can offer a fun challenge for participants to create an Android app that tackles a local community problem.

- [Organizer guide](https://goo.gle/3sUY5Sw) (https://goo.gle/3sUY5Sw) - A thorough guide on how to run Android Study Jams, complete with tips on recruiting participants
- [Presenter guide](https://goo.gle/3zoill1) (https://goo.gle/3zoill1) - Tips on how to engage your audience and create slides for sessions
- [Sample slides for Sessions 1 & 2](https://goo.gle/3pvR4V0) (https://goo.gle/3pvR4V0) - Slides you can adapt and use to facilitate the initial sessions of Study Jams
- [Download all slides](https://bit.ly/AndroidStudyJamsSlides) (https://bit.ly/AndroidStudyJamsSlides)

Learning Pathways

Explore the learning pathways from the [Android Basics in Kotlin course](https://g.co/android/basics) (https://g.co/android/basics) that your participants will be going through as part of Study Jams.

Facilitator Testimonials



Students were lined up two hours before entering the computer lab... all of whom were eager for the program and knew they were going to learn something new today.

Sorosh Shiwa

DSC Lead of Aria University

Introducing people to Kotlin and being by their side at this first step which could touch their lives created great happiness and excitement for us.

Ceren Tunay and Serkan Alc

DSC Turkey, Android Core Mentor Team

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(https://twitter.com/search?q=%23AndroidStudyJams&src=typed_query)
on Twitter

How two developers learned Android and launched their careers

Android Developer Story: Two developers launch their car...



