

# Android Study Jams Bonus Materials - GDSC NIT Hamirpur



GDSC NIT Hamirpur: [gdsc-nith](https://gdsc-nith.github.io/)

Android Docs: <https://d.android.com/docs>

Android Courses Directory: <https://d.android.com/courses>

Android Developer Guides: <https://d.android.com/guide>

Android Samples: <https://d.android.com/samples>

Android Associate Developer Certification: <https://grow.google/androiddev>

Android Udacity Nanodegree (Paid):

<https://www.udacity.com/course/android-kotlin-developer-nanodegree--nd940>

## # Bonus Content

### Unit 1: All about Kotlin

#### Materials:

- [Get Started with Kotlin](#)
- [Learn Kotlin](#)
- [Kotlin style guide](#)
- [Kotlin-Java interop guide](#)
- [Add Kotlin to an existing app](#)

#### Articles:

- [#31DaysOfKotlin](#)
- [Collections and sequences in Kotlin](#)
- [Kotlin Standard Functions Cheat-Sheet](#)
- [Migrating an Android project to Kotlin](#)
- [Learn Kotlin through Unit Tests](#)
- [Adopting Kotlin](#)

#### Videos:

- [typealias](#)
- [inline classes](#)
- [sealed classes](#)
- [enums and R8](#)
- [inline functions](#)
- [operator overloading](#)
- [suspend modifier](#)

## **Unit 2: Layouts & List**

### **Guides:**

- [Create a List with a RecyclerView](#)
- [Material tutorials in Kotlin](#)
- [Material Components for Android](#)
- [Responsive Layouts in Android](#)

### **Articles:**

- [Display List using RecyclerView](#)

### **Samples:**

- [More Kotlin samples](#)

### **Videos:**

- [Material Design Components - MAD Skills series](#)

## **Unit 3: Navigation**

### **Guides:**

- [Get started with the Navigation component | Navigation overview](#)
- [Create destinations](#)
- [Navigate to a destination](#)
- [Update UI components with NavigationUI](#)
- [Pass data between destinations](#)
- [Global actions](#)
- [Conditional destinations](#)
- [Custom destination types](#)

### **Articles:**

- [Navigation Component: An Overview | Navigating with SafeArgs](#)
- [Navigating with Deep Links](#)
- [Deep thoughts on deep links](#)

### **Samples:**

- [More Kotlin samples](#)

### **Videos:**

- [Navigation - MAD Skills](#) | [More Navigation](#)

## **Unit 4 & 5: Coroutines & Database**

### **Guides:**

- [Best Practices for Coroutines](#)
- [Create a Room Database](#)

### **Articles:**

- [Coroutines](#)
- [Database Relations with Room](#)

**Samples:**

- [More Kotlin samples](#)
- [Curated Kotlin samples](#)
- [Android Room with a View](#)
- [Use Kotlin Coroutines in your App](#)

**Videos:**

- [Kotlin Coroutines 101 - Android Conference Talks](#)
- [Coroutines Playlist](#)
- [MAD Skills Using Room Kotlin APIs](#)

**Unit 6: Work manager****Guides:**

- [Core App Quality Guide](#)
- [Build for Billions](#)
- [Test your apps](#)

**Articles:**

- [Follow the Launch Checklist](#)
- [Workmanager Kotlin APIs](#)
- [Jetpack Curated Blogs](#)

**Videos:**

- [Android Jetpack: Introducing WorkManager](#)
- [WorkManager MAD Series](#)

**# Android Basics Pathway**

We hope that you completed Android Basics through the Android Study Jams program. If not, you can start with these links

Link: <https://g.co/android/basics>

**Content:**

- [Unit 1: Kotlin Basics](#)
- [Unit 2: Layouts](#)
- [Unit 3: Navigation](#)
- [Unit 4: Connect to the internet](#)
- [Unit 5: Data persistence](#)
- [Unit 6: Work Manager](#)

Additional perks:

- Virtual Badges

## # Android Advanced Pathway

Next learning pathway after Android Basics

Link: <https://developer.android.com/courses/kotlin-fundamentals/course>

Content:

- [Unit 1](#)
- [Unit 2](#)

Additional perks:

- Virtual Badges

## # Udacity Courses

- [Developing Android Apps \(Intermediate\)](#)
- [Advanced Android Apps \(Intermediate\)](#)
- [Udacity Google](#)

*Thank  
You*