

# Android – Application Development I

Course code: ANDROID1

The course is intended for developers who want to start developing applications on the Android mobile platform. In the course, you will get to know the development environment and learn how to develop modern applications. We will explain the basic principles of development for Android, you will learn the basics of designing a user interface in Android, structuring an application and its settings, you will use Activities, Intents, Adapters and Fragments and you will learn how to store in a database (SQLite).

Affiliate	Duration	Course price	ITB
Praha	3	13 500 Kč	30
Brno	3	13 500 Kč	30
Bratislava	3	600 €	30

The prices are without VAT.

## Course terms

Date	Duration	Course price	Type	Course language	Location
🛡️ 04.05.2026	3	600 €	Online	CZ/SK	Online
⚙️ 20.07.2026	3	600 €	Presence	CZ/SK	GOPAS Bratislava
⚙️ 27.07.2026	3	13 500 Kč	Presence	CZ/SK	GOPAS Praha
09.09.2026	3	600 €	Online	CZ/SK	Online
23.09.2026	3	13 500 Kč	Presence	CZ/SK	GOPAS Brno
04.11.2026	3	13 500 Kč	Presence	CZ/SK	GOPAS Praha
18.11.2026	3	600 €	Presence	CZ/SK	GOPAS Bratislava

The prices are without VAT.

## What we will teach you

- We will explain the basic principles of development for Android
- You will learn the basics of UI design in Android
- You will learn how to structure the application and its settings
- Use Activities, Intents, Adapters and Fragments
- You will use modern design
- You will learn to store in a database (SQLite)

## Required entry skills

- The course assumes knowledge and experience with programming in Kotlin at the level of the course [KOTLIN1]
- It is advisable to have programming experience at the level of smaller projects (dozens of classes)
- It is advisable to know the basics of the SQL language

## Teaching methods

- Expert interpretation with practical examples, exercises on computers. The course is led by a lecturer with developer experience

## Studying materials

- Presentation of the material discussed in printed or online form

## Syllabus:

Introduction to Android

**GOPAS Praha**  
Na Strži 2097/63  
140 00 Praha 4 - Krč  
Tel.: +420 226 201 390  
[info@gopas.cz](mailto:info@gopas.cz)

**GOPAS Brno**  
Nové sady 996/25  
602 00 Brno  
Tel.: +420 530 513 590  
[info@gopas.cz](mailto:info@gopas.cz)

**GOPAS Bratislava**  
Dr. Vladimíra Clementisa 10  
Bratislava, 821 02  
Tel.: +421 902 903 132  
[info@gopas.sk](mailto:info@gopas.sk)



Copyright © 2026 GOPAS, a.s.,  
All rights reserved

# Android – Application Development I

- System architecture
- Application development capabilities
- Application structure

## Development environment

- The basics of working with the Android Studio development environment
- Application debugging
- Using your own device to debug applications

## Creating a simple application

- Basic UI elements, layouts and event reactions

## Activities and Intents

- Starting another activity using an implicit or explicit intent, an activity with a result
- Intent filters and their use
- Work with activity lifecycle

## Action bar and modern Navigation Drawer

- Principle, definition in sources
- Navigation in the Android application, up vs. back button
- Using the support library, Navigation Drawer

## Dialogues

### Storage of data on the device

- SharedPreferences, PreferenceScreen and its usage, PreferenceFragment
- Working with the file system
- SQLite database
- SQLiteOpenHelper
- Queries, browsing cursors

## Adapters

- Connecting the data structure with the user interface
- SQL adapter
- ListView, GridView, Spinner
- Modern RecyclerView and RecyclerView.Adapter

## Fragments

- Why fragments
- Fragments and support library
- Fragments and initialization
- Fragments and manipulation of data belonging to the activity (via interface)

## Something extra

- Practical advice programmer versus project versus management
- Testing and testing
- Important factors in the design and start of the project

### GOPAS Praha

Na Strži 2097/63  
140 00 Praha 4 - Krč  
Tel.: +420 226 201 390  
[info@gopas.cz](mailto:info@gopas.cz)

### GOPAS Brno

Nové sady 996/25  
602 00 Brno  
Tel.: +420 530 513 590  
[info@gopas.cz](mailto:info@gopas.cz)

### GOPAS Bratislava

Dr. Vladimíra Clementisa 10  
Bratislava, 821 02  
Tel.: +421 902 903 132  
[info@gopas.sk](mailto:info@gopas.sk)



Copyright © 2026 GOPAS, a.s.,  
All rights reserved