

ADVANCED AUGMENTED REALITY CAMP

Technical sheet

Minimum Hardware Requirements

The user of this course will need the following devices to complete most of the lessons:

- **Printer access:** some lessons include downloadable resources for you to print. You will then have to scan them with a mobile device to detonate several functions in the apps.
- **Mobile device:** a cellphone or tablet with a built-in camera. The device must have Android OS 7.0 or higher and must also be compatible with Google Play Services for AR.
- **Personal computer:** with Windows 7 (or higher) in 64-bit versions or MacOS 10.13 (or higher). The computer must have a Graphics card with DX10 (shader model 4.0) capabilities.

The above requirements are needed to install the following software in your devices:



Software description

Unity is a multiplatform game engine developed by Unity Technologies. The engine can be installed in your PC and can be used to create three-dimensional, two-dimensional, virtual reality and augmented reality games, as well as simulations and other experiences. The engine has been adopted by industries other than video games, such as cinema, automotive, architecture, engineering, and construction.



vuforia® engine™

Software description

Vuforia is a software development kit (SDK) that allows augmented reality applications to be created. It uses computer vision technology to know and track flat images and simple 3D objects in real-time. It can be used together with Unity to add augmented reality functions.



Software description

Android SDK is a software development kit (SDK) that allows Android platform applications to be created. It includes libraries, a debugger, an emulator, and documentation. It can be used in combination with Unity to create mobile compatible apps.



Software description

Java JDK is a software development kit (SDK) that allows the development of applications and components using Java technology. It includes tools reliable for developing and testing. It can be used in combination with Android SDK to create mobile compatible apps.



ARCore by Google

Software description

ARCore enables your mobile device to sense the environment using the sensors and components available in the system interacting with information generated by motion tracking, environmental understanding, and light estimation.