



Summer School 2021

IMAGINE | DEVELOP | CONTROL | FLY

online



July 5-23, 2021

6 ECTS credits

➤ A 3-week summer program aiming at providing key concepts and general understanding of what drones and robotic arms are and how to control them.



First, you will learn how to design a robot using one of the most commonly used robotic environment: Robot Operating System.

Then, you will discover how to develop a mobile application that allows you to control such systems.



Overview

Program

4 hours / day

From Monday to Friday

Fees

900 euros



Technical courses

- Introduction to drones
- Multi-motor system
- Perception
- Inertial Measurement Unit
- GPS
- ROS
- Control the drone using ROS with a specific mission
- Presentation of the work using ROS
- Introduction to mobile programming
- Programming language
- Create responsive UI on mobile
- Handling user interactions
- Simple UI creation with the core widgets
- Navigating between views
- JSON format
- Using API to query resources



Cultural activities

- Fun virtual visits
- Interactive virtual workshops

Prerequisites

- **Basics of python and intermediate programming skills.**
- **Applicants must understand Object Oriented Programming and usual design patterns.**
- **It's recommended to have 2 years of higher education in IT or computer science.**
- **It's highly recommended to have 2 screens and good internet connection.**



Application deadline: May 31, 2021

By e-mail at
summer@epita.fr and **international@ipsa.fr**

Application

Application documents:

- Application form
- Copy of passport or ID
- Official transcripts from home university
- Proof of English language proficiency (B2 level)

**Looking forward to receiving your
application!**

summer@epita.fr and international@ipsa.fr