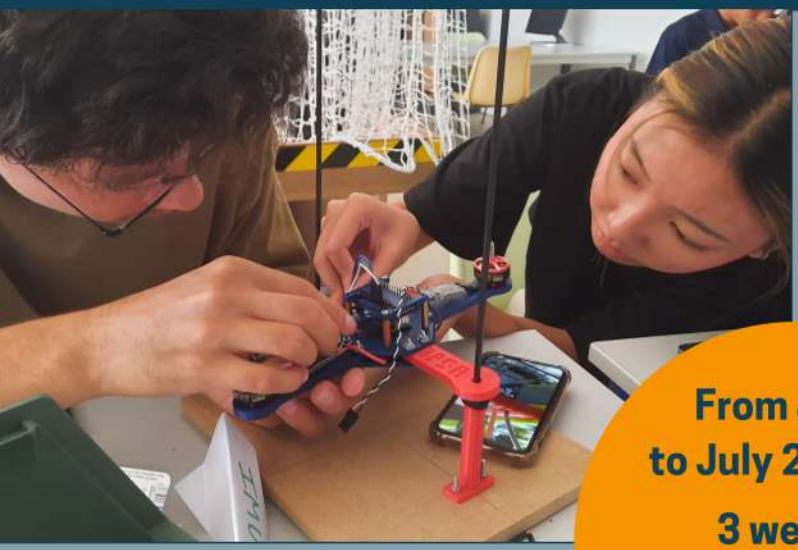
IPSA
ÉCOLE D'INGÉNIEURS DE L'AIR
DE L'ESPACE ET DE LA MOBILITÉ DURABLE

SUMMER SCHOOL 2023

IMAGINE - DEVELOP - FLY

understanding flying robots | building and controlling drones



Technical courses and experimental tests

From July 3 to July 21, 2023
3 weeks
In Paris, France
6 ECTS credits

Intercultural workshops and activities

IONIS EDUCATION GROUP
Cti Commission des titres d'ingénieur
CAMPUS FRANCE campusfrance.org
BIENVENUE EN FRANCE
European Accreditation of Engineering Programmes EUR-ACE®

IPSA Summer School

Our 3-week program aims at providing you key concepts about the flying equation system and about how to build and control drones with a robotic arm. First, with the expertise of our team, you will learn how to design a robot using one of the most used robotic environments: Robot Operating System. Second, you will build, stabilize, and make a real bicopter fly.

Agenda

Week 1: Introduction to drones

You will discover the different types of drones and all about controlling a robotic arm.

Week 2: Multi-motor systems

You will get familiar with the modeling and controlling quadrotor systems.

Week 3: From theory to practice

You will build your own drone and make it fly.

A memorable experience in Paris

The cultural fun is garanteed by the interactive visits and intercultural workshops all along the 3-week program.

Make sure you master

- Basics of python and C/C++.
- Intermediate programming skills.
- Understanding of Object Oriented Programming.
- Recommended to have 2 years of higher education in robotics.

Program fees

2 650 euros*

(including accomodation, tuition, material kit, cultural activities, lunch and coffe breaks on course days, public transport pass)

****A special discount applies to students from our partner universities.***

How to apply?

Send the following documents at international@ipsa.fr:

1. Application form;
2. Copy of passport;
3. Official transcripts from home university;
4. Proof of English language proficiency (B2 level);
5. Application fee (60 euros)*.

**Students from our partner universities are exempted from the application fee.*

Need more information?

Contact us at international@ipsa.fr

Application deadline:

May 15, 2023

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