



PARIS

# IPSA

## INSTITUT POLYTECHNIQUE DES SCIENCES AVANCÉES



The Institut Polytechnique des Sciences Avancées (IPSA) is a Graduate School of Engineering specialized in air, space and sustainable mobility, offering a 5-year syllabus 100% dedicated to Aeronautics and Space rewarded with a Master's degree.

Recognized by the French Ministry of Higher Education, IPSA is also fully accredited by the National accrediting body in charge of assessing French schools of engineering (CTI).

### ◆ MAIN PROGRAMMES OF STUDY

IPSA's programs include a strong aeronautics and space component from the outset.

IPSA offers French and Francophone students a 3-year bachelor program and a 5-year engineering program.

The bachelor program is delivered in Paris and Toulouse. Classes are in French or English.

The 5-year program includes a 2-year master's degree delivered in Paris. Courses at the master level are mainly in English. In the 4th year, students must complete a study semester in one of the partner universities. Internships are compulsory in 2nd, 4th and 5th year. They are carried out in companies or in research laboratories.

IPSA offers international students 2 programs: the Master in Aeronautical Engineering and the Summer School Program.

The Master in Aeronautical Engineering is delivered in Paris for a period of 2 years and begins each year in September.

The program consists of 4 semesters of 30 ECTS each.

There are two majors: Vehicles and Systems and several options each semester. In the 1st year, 2nd semester there are 5 scientific and technological options:

- Embedded systems and telecommunications
- Mechatronic systems.
- Space, launchers and satellites.
- Energetics and propulsion.
- Mechanics and structures.

In the 5th year, students still choose from 8 other options.

The master's program also includes two internships: an internship of at least 8 weeks at the end of the 1st year and an internship of 5-6 months during the last semester.

Most courses are delivered in English.

International students benefit from French language courses throughout the program.

### ◆ RESEARCH

IPSA has 2 research teams and 7 laboratories in total:

Research at IPSA is managed by the Direction of research and innovation.

Micro Aeronautics Team:

- Autonomous Air Systems Laboratory
- IPSA Intelligent Systems Laboratory
- IPSA Complex Systems Laboratory

Computational Science for Mechanics and Energy Team:

- Modeling and Aerodynamical Testing Laboratory
- Thermal and Thermodynamics Laboratory of IPSA
- Materials and Structural Mechanics Laboratory
- Simulation and Scientific Computing Laboratory

### ◆ STRENGTHS

Since its creation in 1961, IPSA has been driven by the constant concern to match the training provided to students with the needs of companies. IPSA training also allows graduates to work in related advanced fields of aeronautics and space, particularly in land transport, which uses techniques and technologies similar to those used in aeronautics.

The program (coursework and projects) has a strong aeronautical orientation from the first year. Students personalize that component through their choice of specialization. The curriculum also follows the industrial needs and feedbacks: which enhances the employability of IPSA graduates. Voluntary projects and events organized by the school point to the passion that reigns at IPSA.

Several students associations, ranging from scientific and cultural projects, convey a message of a family run school.

### ◆ LOCATION

IPSA has 2 campuses:



### IDENTITY FORM

#### ◆ Precise name of the institution

IPSA - Institut Polytechnique des Sciences Avancées

#### ◆ Type of institution

Association organized under the law of 1901: private institution of higher education

#### ◆ City where the main campus is located

Paris

#### ◆ Number of students

2000

#### ◆ Percentage or number of international students

10%

#### ◆ Type and level of qualifications awarded

Master's degree in aeronautical engineering  
Bachelor's degree

#### ◆ French language courses

Yes - International Master students must reach level B2 before finishing the program and benefit from intensive courses adapted to reach this level.

#### ◆ Programs for international students

Yes

#### ◆ Programs in English

Yes - The Master's courses are taught mainly English. From the second semester there are some courses in French as well.

#### ◆ Registration fees/year (for information only)

Master tuition fees: 11.884€

#### ◆ Postal address

Paris : 63 bis Boulevard de Brandebourg  
94200 Ivry-sur-Seine

<https://www.ipsa.fr/en/>



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