

## Physical Sciences for Innovative Technologies - FAQ

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### GENERAL INFORMATION

#### Who is this Bachelor's degree designed for?

It is designed for students who enjoy physics and mathematics and want to study science in an international environment, with a strong focus on innovation, technology, and real-world applications.

#### What is this Bachelor's degree about?

It aims to provide a solid foundation in physics with a strong emphasis on industrial applications for innovative technologies. The program combines experimental and theoretical physics focusing on sustainable energy, quantum technologies, electronic device design, and AI data management.

#### How is the course organized between the two universities?

The degree is a joint program offered by the *University of Milano-Bicocca* and the *University of Pavia*, and is organized as follows:

- 1<sup>st</sup> semester: in-person lectures are held in Pavia.
- 2<sup>nd</sup> semester: in-person lectures are held in Milano-Bicocca.
- Laboratories: all lab activities are held in-person in Milano-Bicocca.

#### What does "Blended Mode" mean?

For non-laboratory courses, teaching is delivered *50% online* (recorded or live streaming) and *50% in person*. This allows for greater flexibility across the two universities, while maintaining essential face-to-face interaction with professors and peers.

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## **ADMISSION & ENROLLMENT**

### **How many students can be enrolled per-year?**

- Total Capacity: 120 places per academic year
- International quota: up to 20 places reserved for non-EU applicants.
- Selection: entry is merit-based. if the number of applicants exceed the available places, the admission test score is used for the ranking

### **Which admission test should I take?**

You must take a CISIA test. You can take either the English CEnT-S or the TOLC-S. The test evaluates Logic, Reading Comprehension, Mathematics, and Sciences.

### **How does the application process work?**

Admission is not a single event but takes place through multiple selection windows throughout the year. Each window has a specific number of allocated places and may be dedicated to either EU or non-EU applicants. Since deadlines and availability change for each ranking period, it is crucial to check the official website regularly for the latest updates.

### **What should I do if I am interested?**

Read the official admission call, check the current deadlines and accepted test options, and contact the programme team if you need guidance.

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## **STUDY PLAN & INTERNSHIP**

### **What will I study during the 1<sup>st</sup> year?**

The focus is on building strong foundations. You will study calculus, chemistry, fundamental physics (mechanics and thermodynamics), linear algebra, probability and statistics, physical modeling and simulation.

### **What will I study during the 2<sup>nd</sup> year?**

You will dive deeper into core physics with courses in electromagnetism, quantum mechanics, condensed matter, and dedicated computational laboratories.

### **What happens in the 3<sup>rd</sup> year?**

You will choose one of the three specialized tracks (sustainable energy, quantum systems, or electronics & data management). You will attend specialized courses and laboratories, as well as complete your studies with the Bachelor's thesis.

### **How does the internship/thesis work?**

The final internship can be carried out in a partner company or in a research laboratory, including Milano-Bicocca, Pavia, or other approved institutions.

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## RESOURCES & LINKS

- Course Webpage: <https://www.unimib.it/triennale/physical-sciences>
- Course Syllabus: <https://elearning.unimib.it/course/index.php?categoryid=11559>
- Admission Test (CISIA): <https://www.cisiaonline.it/>