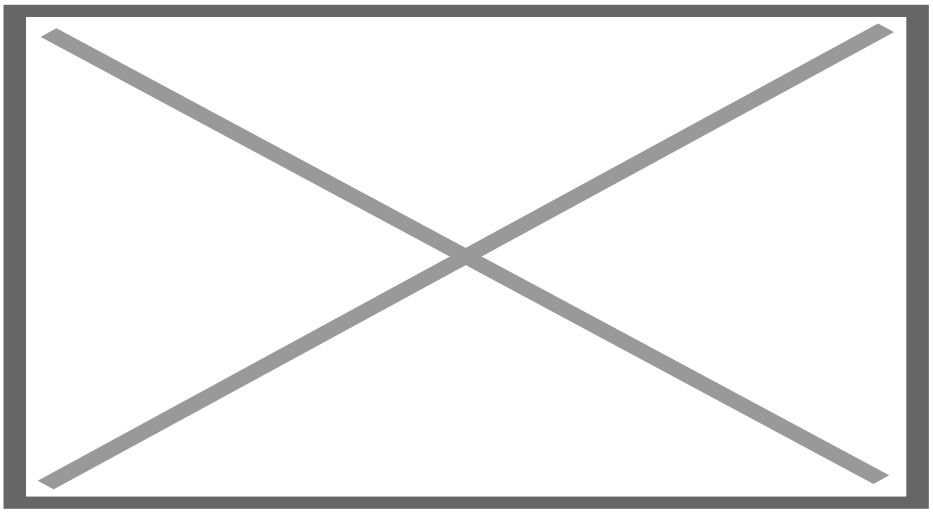
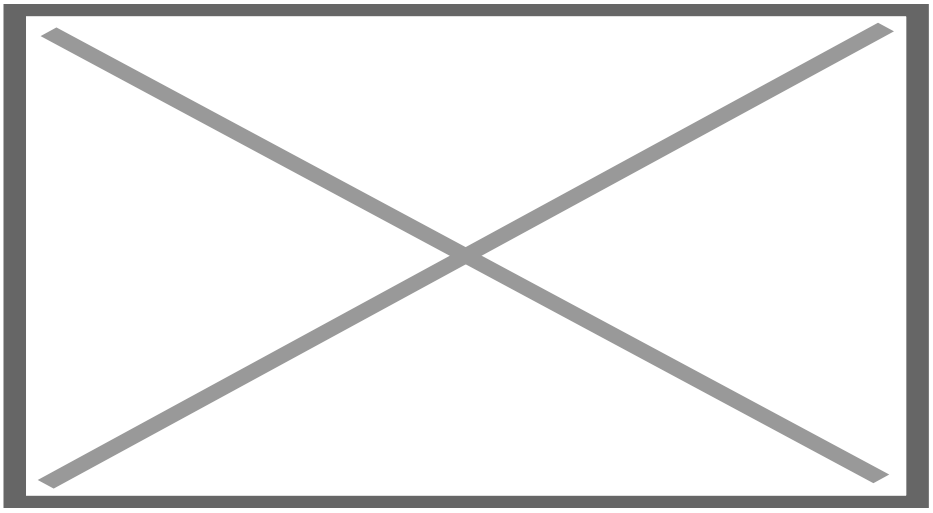
Université Paris-Saclay
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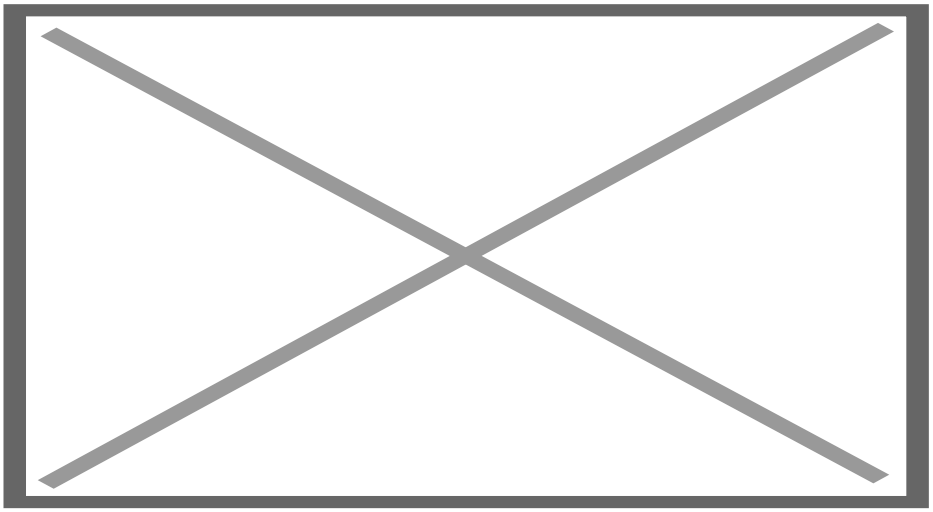
Email destinataire :
Vous devez renseigner un email valide
Envoyer
Une erreur est survenue. Merci de réessayer ultérieurement
Le mail de partage a bien été envoyé.
Add to Compare

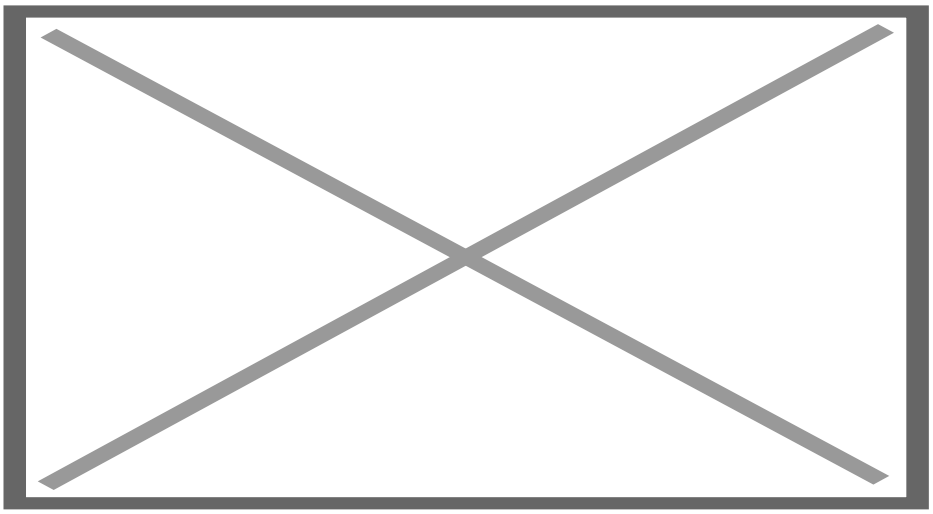
# M2 Physics, Engineering and Chemistry for Biology

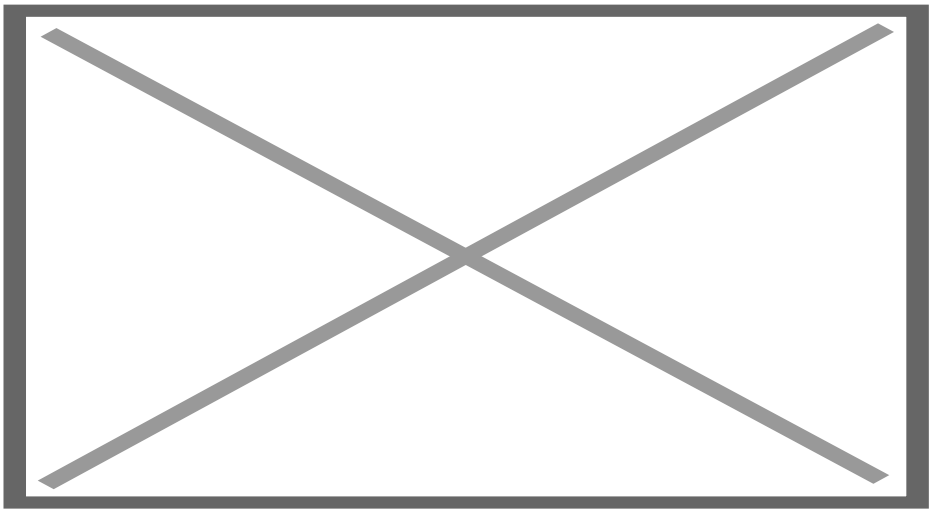
Master's degree
Specialisation Physique fondamentale et applications
Language(s) of instruction
English
Télécharger la fiche détaillée
Apply Now











# Information

- Overview
- Application requirements
- Schedule

Présentation

# Calendar

Start of programme (indicative date)
19/12/2025
Admission

# Capacity

## Available Places

24

# Période(s) de candidature

Inception Platform

From 01/01/2026 to 20/07/2026

# Supporting documents

## Compulsory supporting documents

Copy of identity document.

Supporting documents (TOEFL, TOEIC, certificate of a teacher ...) of a level of a foreign language.

Motivation letter.

All transcripts of the years / semesters validated since the high school diploma at the date of application.

Curriculum Vitae.

Detailed description and hourly volume of courses taken since the beginning of the university program.

## Additional supporting documents

Other diplomas.

VAP file (obligatory for all persons requesting a valuation of the assets to enter the diploma).

Programme

| Subjects | ECTS | Semester | Lecture | directed study | practical class | Lecture/directed study | Lecture/practical class | directed study/practical class | di le |
|---|---|---|---|---|---|---|---|---|---|
| Fundamentals in Biology | 6 | Semester 1 | 41 | | 10 | | | | |
| Charger le détail | | | | | | | | | |
| Practical works | 3 | Semester 1 | | | 30 | | | | |
| Charger le détail | | | | | | | | | |

| Subjects | ECTS | Semester | Lecture | directed study | practical class | Lecture/directed study | Lecture/practical class | directed study/practical class | di le |
|---|---|---|---|---|---|---|---|---|---|
| Cell biochips | 3 | Semester 1 | 17 | 6 | 8 | | | | |
| Charger le détail | | | | | | | | | |
| Fundamentals in Chemistry | 3 | Semester 1 | 30 | | | | | | |
| Charger le détail | | | | | | | | | |
| BioMolecular Photonics | 3 | Semester 1 | 28 | | | | | | |
| Charger le détail | | | | | | | | | |
| Light-matter interaction: from molecules to solids | 3 | Semester 1 | 30 | | | | | | |
| Charger le détail | | | | | | | | | |
| Advanced Microscopies | 3 | Semester 1 | 28 | | | | | | |
| Charger le détail | | | | | | | | | |
| Soft Condensed Matter | 3 | Semester 1 | 30 | | | | | | |
| Charger le détail | | | | | | | | | |

| Subjects | ECTS | Semester | Lecture | directed study | practical class | Lecture/directed study | Lecture/practical class | directed study/practical class | dis lea c |
|---|---|---|---|---|---|---|---|---|---|
| Python | 3 | Semester 1 | 9 | | 21 | | | | |
| Charger le détail | | | | | | | | | |

| Subjects | ECTS | Semester | Lecture | directed study | practical class | Lecture/directed study | Lecture/practical class | directed study/practical class | dis lea c |
|---|---|---|---|---|---|---|---|---|---|
| Modeling structure and dynamics of biomolecules | 3 | Semester 1 | 15 | | 15 | | | | |
| Charger le détail | | | | | | | | | |
| Image analysis for biology | 3 | Semester 1 | 30 | | 4 | | | | |
| Charger le détail | | | | | | | | | |
| Laser and Nonlinear Optics | 3 | Semester 1 | 22 | 8 | | | | | |
| Charger le détail | | | | | | | | | |

| Subjects | ECTS | Semester | Lecture | directed study | practical class | Lecture/directed study | Lecture/practical class | directed study/practical class | |
|---|---|---|---|---|---|---|---|---|---|
| Tissues and Bioengineering | 3 | Semester 2 | | 30 | | | | | |
| Charger le détail | | | | | | | | | |
| Quantum sensing | 3 | Semester 2 | 30 | | | | | | |
| Charger le détail | | | | | | | | | |
| ICR - Ion Channel Recording and nanopore technology | 3 | Semester 2 | 22 | 6 | 4 | | | | |
| Charger le détail | | | | | | | | | |
| Microfluidics | 3 | Semester 2 | 18 | 4 | 8 | | | | |
| Charger le détail | | | | | | | | | |
| Nanophotonics | 3 | Semester 2 | 30 | | | | | | |
| Charger le détail | | | | | | | | | |

| Subjects | ECTS | Semester | Lecture | directed study | practical class | Lecture/directed study | Lecture/practical class | directed study/practical class | distan learn cour |
|---|---|---|---|---|---|---|---|---|---|
| M2 final internship | 21 | Semester 2 | | | | | | | |

| Subjects | ECTS | Semester | Lecture | directed study | practical class | Lecture/directed study | Lecture/practical class | directed study/practical class | distan learn cour |
|---|---|---|---|---|---|---|---|---|---|

Charger le détail

# Contact

- **François TREUSSART**

http://www.universite-paris-saclay.fr/formation/master/physique-fondamentale-et-applications/m2-physics-engineering-and-chemistry-biology