Université Paris-Saclay

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# M1 Physics - Irène Joliot-Curie lane - IOGS

Master's degree
Specialisation Physique fondamentale et applications
Enrolment type
Formation initiale
Language(s) of instruction
English
French

The 1st year Master's Irène Jolliot Curie - Institut d'Optique Graduate School (IJC-IOGS) is a double-degree programme of excellence: an engineering degree from Institut d'Optique and a 1st year Master's programme including shared courses in general physics with our partners at Université Paris Saclay.

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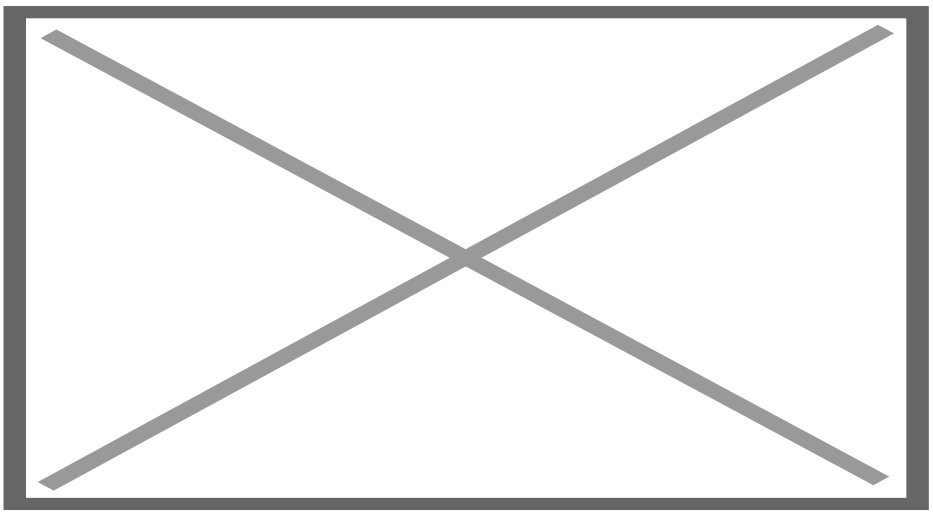

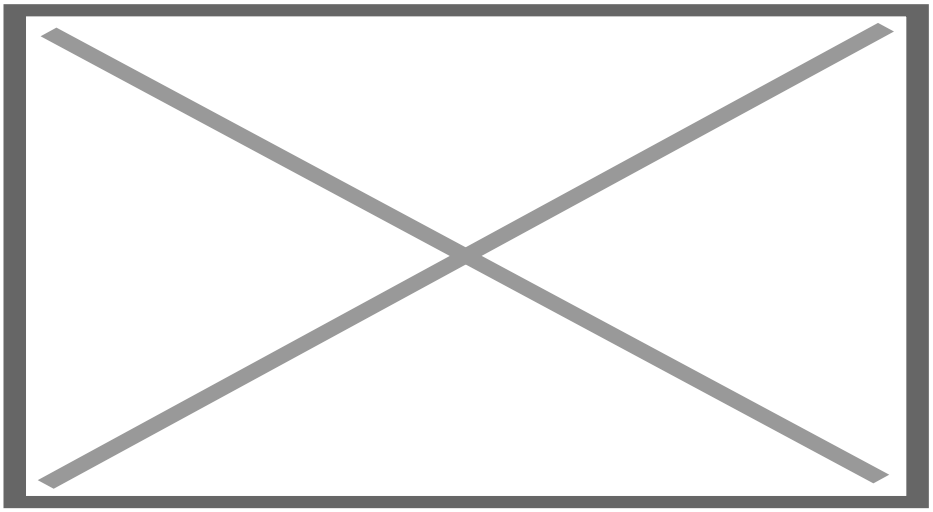

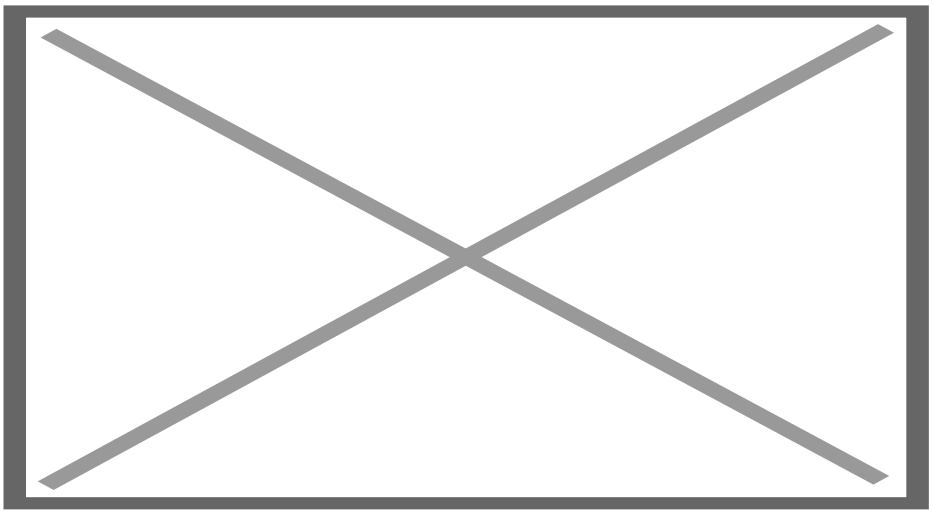

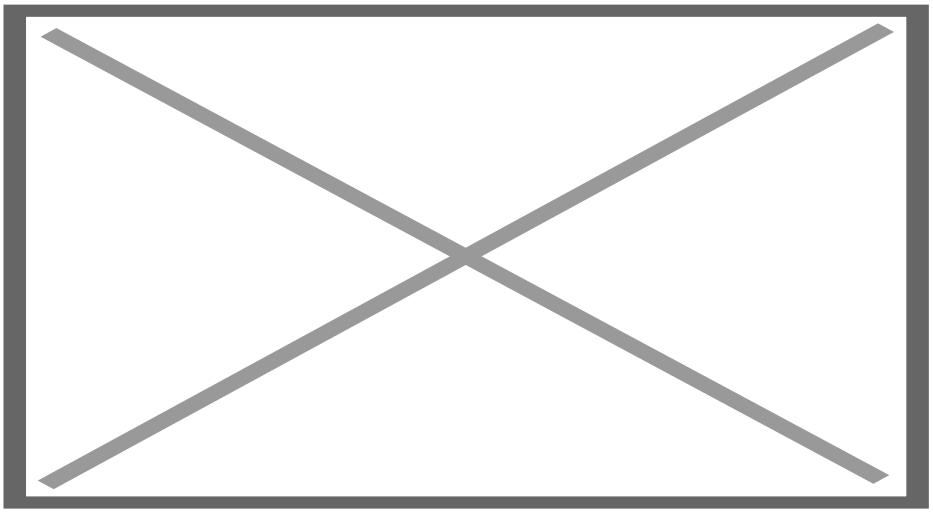

# Information

- Overview
- Application requirements
- Schedule

Présentation

# Skills

Master and apply specialised physics knowledge with the necessary scientific rigour.

# Objectives

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Admission

# Admission Route

Physics

# Capacity

## Available Places

15

# Target Audience and Entry Requirements

The 1st year Master's Irène Joliot Curie * Institut d'Optique Graduate School (IJC-IOGS) is aimed at IOGS engineering students, as well as French or international university students who have entered the Institut d'Optique engineering school on the basis of their academic qualifications, and who wish to deepen their curriculum through a double university course.

# Période(s) de candidature

Inception Platform

From 25/08/2026 to 10/09/2026

# Supporting documents

## Compulsory supporting documents

Copy of identity document.

Motivation letter.

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

Curriculum Vitae.

## Additional supporting documents

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

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

Recommendation letters.

Supporting documents :
- Residence permit stating the country of residence of the first country
- Or receipt of request stating the country of first asylum
- Or document from the UNHCR granting refugee status
- Or receipt of refugee status request delivered in France
- Or residence permit stating the refugee status delivered in France
- Or document stating subsidiary protection in France or abroad
- Or document stating temporary protection in France or abroad.

Programme

| Subjects | ECTS | Semester | Lecture | directed study | practical class | Lecture/directed study | Lecture/practical class | directed study/practical class | dista lear cou |
|---|---|---|---|---|---|---|---|---|---|
| Travaux pratiques de photonique | 4 | Semestre 2 | | | 36 | | | | |
| Charger le détail | | | | | | | | | |
| Optique des ondes guidées | 2 | Semestre 2 | 23 | | | | | | |
| Charger le détail | | | | | | | | | |

| Subjects | ECTS | Semester | Lecture | directed study | practical class | Lecture/directed study | Lecture/practical class | directed study/practical class | d l |
|---|---|---|---|---|---|---|---|---|---|
| Ondes et Matière | 9 | Semestre 1 | 51.5 | 18 | 36 | | | | |
| Charger le détail | | | | | | | | | |

| Subjects | ECTS | Semester | Lecture | directed study | practical class | Lecture/directed study | Lecture/practical class | directed study/practical class | d l |
|---|---|---|---|---|---|---|---|---|---|
| Fondamentaux d'Optique | 3 | Semestre 1 | 27.5 | 0 | 18 | | | | |
| Charger le détail | | | | | | | | | |
| Calcul Scientifique | 3 | Semestre 1 | 32 | | | | | | |
| Charger le détail | | | | | | | | | |

| Subjects | ECTS | Semester | Lecture | directed study | practical class | Lecture/directed study | Lecture/practical class | directed study/practical class | dist lear cou |
|---|---|---|---|---|---|---|---|---|---|
| Noyaux et particules | 6 | Semestre 1 | 24 | | | | | | |
| Charger le détail | | | | | | | | | |
| Physique atomique et moléculaire | 6 | Semestre 1 | 24 | | | | | | |
| Charger le détail | | | | | | | | | |

| Subjects | ECTS | Semester | Lecture | directed study | practical class | Lecture/directed study | Lecture/practical class | directed study/practical class | dis lea co |
|---|---|---|---|---|---|---|---|---|---|
| Think international (S1) | 3 | Semestre 1 | 26 | | | | | | |
| Charger le détail | | | | | | | | | |

| Subjects | ECTS | Semester | Lecture | directed study | practical class | Lecture/directed study | Lecture/practical class | directed study/practical class | distan learni cours |
|---|---|---|---|---|---|---|---|---|---|
| Physique des plasmas | 3 | Semestre 2 | 10 | | 8 | | | | |
| Charger le détail | | | | | | | | | |

| Subjects | ECTS | Semester | Lecture | directed study | practical class | Lecture/directed study | Lecture/practical class | directed study/practical class | dis lea co |
|---|---|---|---|---|---|---|---|---|---|
| Think international (S2) | 2 | Semestre 2 | 18 | | | | | | |
| Charger le détail | | | | | | | | | |

| Subjects | ECTS | Semester | Lecture | directed study | practical class | Lecture/directed study | Lecture/practical class | directed study/practical class | distan learni cours |
|---|---|---|---|---|---|---|---|---|---|

| | | |
|---|---|---|
| stage | 15 | Semestre 2 |

Charger le détail

| Subjects | ECTS | Semester | Lecture | directed study | practical class | Lecture/directed study | Lecture/practical class | directed study/practica class |
|---|---|---|---|---|---|---|---|---|
| Entrepreneuriat et Innovation | 2 | Semestre 2 | | | | | | |

Charger le détail

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|---|---|---|---|---|---|---|---|---|
| Projet de Formation Scientifique | 2 | Semestre 2 | | | | | | |

Charger le détail

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|---|---|---|---|---|---|---|---|---|
| Introduction à la matière condensée | 2 | Semestre 1 | 18 | | | | | |

Charger le détail

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|---|---|---|---|---|---|---|---|---|
| Traitement d'Images | 2 | Semestre 2 | 9 | | | | | |

Charger le détail

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|---|---|---|---|---|---|---|---|---|
| Optique et Biologie | 2 | Semestre 2 | 18 | | | | | |

Charger le détail

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|---|---|---|---|---|---|---|---|---|
| Sources à Semiconducteurs | 2 | Semestre 2 | 18 | | | | | |

Charger le détail

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Holographie et Speckle | 2 | Semestre 2 | 18 | | | | | |

Charger le détail

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Interaction Matière Rayonnement | 2 | Semestre 2 | 18 | | | | | |

Charger le détail

# Teaching Location(s)

ORSAY
PALAISEAU

# Contact


- **Rosa TUALLE-BROURI**


http://www.universite-paris-saclay.fr/formation/master/physique-fondamentale-et-applications/m1-physique-voie-irene-joliot-curie-iogs