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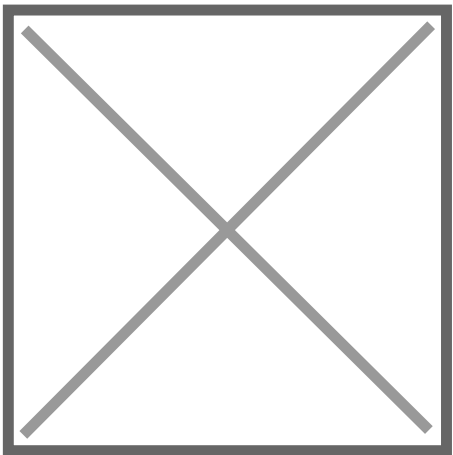
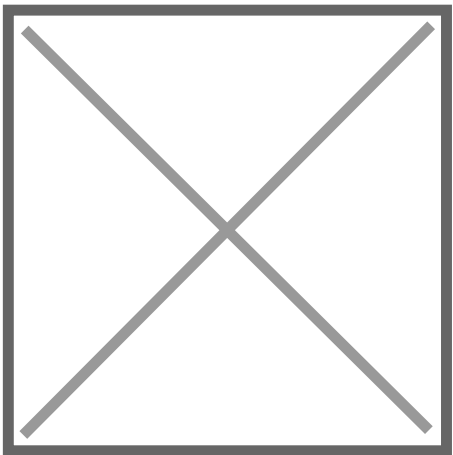
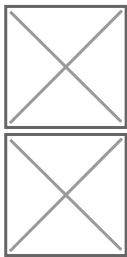
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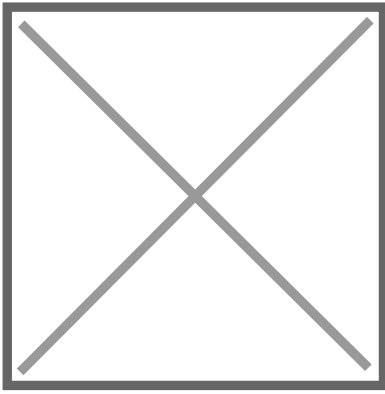
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Une erreur est survenue. Merci de réessayer ultérieurement
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Add to Compare

M1 Physics - Irène Joliot-Curie lane - IOGS





Master's degree

Specialisation Physique fondamentale et applications

Language(s) of instruction

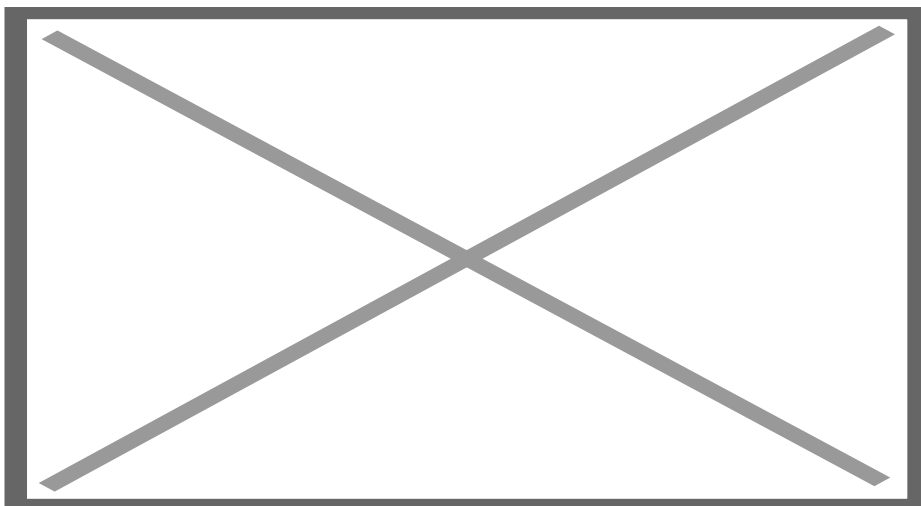
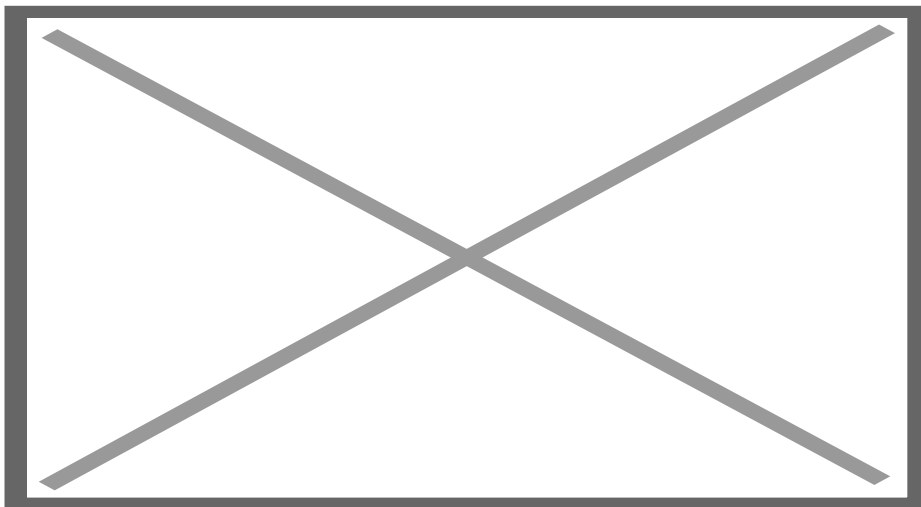
English French

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

The 1st year Master's Irène Joliot 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.

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

Photonique et ingénierie - S2

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	practical class	directed study/practical class	distance learning
Travaux pratiques de photonique	4	Semestre 2			36				
■									

Travaux pratiques de photonique

ECTS : 4

Semester: Semestre 2

Detail

Practical study : 36

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

Optique des ondes guidées	2	Semestre 2	23
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Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	distance learning
----------	------	----------	---------	----------------	-----------------	------------------------	-------------------------	--------------------------------	-------------------



Optique des ondes guidées

ECTS : 2
 Semester: Semestre 2
 Detail
 Lecture: 23
 Language(s) of instruction
 Français
 Remote teaching
 non
 Type of assessment
 Evaluation Continue non Intégrale

Photonique et ingénierie - S1

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	distance learning
----------	------	----------	---------	----------------	-----------------	------------------------	-------------------------	--------------------------------	-------------------

Ondes et Matière	9	Semestre 1	51.5	18	36				
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Ondes et Matière

ECTS : 9
 Semester: Semestre 1
 Detail
 Lecture: 51.5
 Practical study : 36
 Directed study: 18
 Language(s) of instruction
 Français
 Remote teaching
 non
 Type of assessment
 Evaluation Continue non Intégrale

Fondamentaux d'Optique	3	Semestre 1	27.5	0	18				
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Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	distance learning
----------	------	----------	---------	----------------	-----------------	------------------------	-------------------------	--------------------------------	-------------------

Fondamentaux d'Optique

ECTS : 3

Semester: Semestre 1

Detail

Lecture: 27.5

Practical study : 18

Directed study: 0

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

[Calcul Scientifique](#) 3 Semestre 1 32

Calcul Scientifique

ECTS : 3

Semester: Semestre 1

Detail

Lecture: 32

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

Physique fondamentale - S1

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	distance learning
----------	------	----------	---------	----------------	-----------------	------------------------	-------------------------	--------------------------------	-------------------

[Noyaux et particules](#) 6 Semestre 1 24

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	distance learning
----------	------	----------	---------	----------------	-----------------	------------------------	-------------------------	--------------------------------	-------------------

■

Noyaux et particules

ECTS : 6

Semester: Semestre 1

Detail

Lecture: 24

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

[Physique](#)

[atomique et](#)

[moléculaire](#)

Semestre

1

24

■

Physique atomique et moléculaire

ECTS : 6

Semester: Semestre 1

Detail

Lecture: 24

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

Languages - S1

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	distance learning
----------	------	----------	---------	----------------	-----------------	------------------------	-------------------------	--------------------------------	-------------------

[Think](#)

[international](#)

[\(S1\)](#)

3

Semestre

1

26

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	distance learning
■									

Think international (S1)

ECTS : 3

Semester: Semestre 1

Detail

Lecture: 26

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

Physique fondamentale - S2

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	distance learning
----------	------	----------	---------	----------------	-----------------	------------------------	-------------------------	--------------------------------	-------------------

[Physique](#)

[des](#)

[plasmas](#)

■

3
Semestre 2 10

8

Physique des plasmas

ECTS : 3

Semester: Semestre 2

Detail

Lecture: 10

Practical study : 8

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

Langues - S2

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	distance learning
----------	------	----------	---------	----------------	-----------------	------------------------	-------------------------	--------------------------------	-------------------

[Think](#)

[international](#)

[\(S2\)](#)

2
Semestre 2 18

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	distance learning
■									

Think international (S2)

ECTS : 2

Semester: Semestre 2

Detail

Lecture: 18

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

Stage

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	distance learning
stage	15	Semestre 2							
■									

stage

ECTS : 15

Semester: Semestre 2

Detail

Tutored project 491

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

Electifs scientifiques

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

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
----------	------	----------	---------	----------------	-----------------	------------------------	-------------------------	--------------------------------

Entrepreneuriat et Innovation

ECTS : 2

Semester: Semestre 2

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

[Projet de Formation Scientifique](#)

2

Semestre
2

Projet de Formation Scientifique

ECTS : 2

Semester: Semestre 2

Detail

Tutored project 24

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

[Introduction à la matière condensée](#)

2

Semestre
1 18

Introduction à la matière condensée

ECTS : 2

Semester: Semestre 1

Detail

Lecture: 18

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Traitement d'Images	2	Semestre 2	9					
■								

Traitement d'Images

ECTS : 2

Semester: Semestre 2

Detail

Lecture: 9

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

Optique et Biologie	2	Semestre 2	18
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Optique et Biologie

ECTS : 2

Semester: Semestre 2

Detail

Lecture: 18

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

Sources à Semiconducteurs	2	Semestre 2	18
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■

Sources à Semiconducteurs

ECTS : 2

Semester: Semestre 2

Detail

Lecture: 18

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Holographie et Speckle	2	Semestre 2	18					
■								

Holographie et Speckle

ECTS : 2

Semester: Semestre 2

Detail

Lecture: 18

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

[Interaction](#)

[Matière](#)

[Rayonnement](#)

■

Interaction Matière Rayonnement

ECTS : 2

Semester: Semestre 2

Detail

Lecture: 18

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

Teaching Location(s)

ORSAY

PALaiseau

Contact

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Rosa TUALLE-BROURI

<http://www.universite-paris-saclay.fr/formation/master/physique-fondamentale-et-applications/m1-physique->

