

Master in Physics

The programme offers the following course(s) :

- › Astrophysics
- › Complex Matter Living Matter
- › Quantum matter
- › Subatomic physics and cosmology
- › Nanophysics
- › Photonics and semiconductors
- › Materials for energy
- › Medical physics
- › Optics and Management Technical (OptiCo)
- › Nuclear energy

Presentation

Course co-accredited by the Université Grenoble Alpes, the National Polytechnic Institute of Grenoble and the Université Savoie Mont Blanc


The Master in Physics is a general physics course. Its aim is to provide students with a solid knowledge base in physics, enabling them to specialise in any of the different physics fields.

The first year of the Master consolidates this general physics base, through a substantial foundation programme, while preparing students for specialisation in one of the nine physics programmes. More detailed information on this first year is available from: <https://master-physique.univ-grenoble-alpes.fr/master-1-physique/>

Four programmes ("Astrophysics", "Complex Matter, Living Matter", "Quantum Matter" and "Subatomic Physics and Cosmology") offer high-level training in one of the Grenoble site's four main research themes. A Nanophysics programme completes the courses available in fundamental physics. It is positioned at the interface between nanophysics and condensed-matter physics (as a complement to the Nanophysics programme of the N2 specialisation). The Materials for Energy and Photonics and Semiconductors programmes address the more applied aspects of physics through a "research and innovation" offer, and have been developed in close collaboration with Grenoble INP. Lastly, the Medical Physics programme is shared between the Physics and Health Engineering specialisations.

In Semester 3, students can either choose all of their courses from within the same programme, in order to acquire all the theoretical, experimental and/or digital concepts specific to the chosen theme, or they can substitute four modules (UEs) from their programme with four from a second programme (excluding Nano, MatEng and PhysMed). This option should therefore interest students looking for a more cross-cutting (bidisciplinary) and also more theoretical course.

The Master includes a 4-month internship carried out during Semester 4 (M2) but also a "summer" internship that takes place at the end of M1. This first internship (a minimum of two months from mid-May) is a real bridge between M1 and M2, and enables students to discover the research profession and finalise their specialisation choices. It is an integral part of the course and therefore contributes to obtaining the diploma (unless entering the M2 following a Master obtained in another university).

 **Attention : The lessons of the first year of the master are taught in French; courses are fully taught in English from the second year**

A general overview of the specialisation (structure, photo gallery, internships, teaching team, etc.) is available on our website: <https://master-physique.univ-grenoble-alpes.fr/>

Registration and scholarships

The Master in Physics is open to all students who have completed a bachelor degree (licence) in Physics at a French or foreign university (subject to validation of the course by the attainment validation board). Access is possible for students who have completed a bachelor degree in Physics-Chemistry, subject to the agreement of the course manager.

For the second year of the Master: students who have completed the first year of a compatible programme or one of equivalent level.

Public continuing education:

You are in charge of continuing education:

- if you resume your studies after 2 years of interruption of studies,
- or if you followed a formation under the regime formation continues one of the 2 preceding years
- or if you are an employee, job seeker, self-employed.

If you do not have the diploma required to integrate the training, you can undertake a [validation of personal and professional achievements \(VAPP\)](#).

Further studies

The programs "astrophysics", "complex matter / living matter", "quantum matter", "subatomic physics & cosmology" and "nanophysics" are very clearly oriented towards a continuation of PhD studies. The courses "materials for energy", "photonics & semiconductors" and "medical physics" can lead either to a continuation of studies in thesis or to an insertion in the professional environment (R & D engineer or physicist in a hospital environment). The course "technique of commercialization in optics" is clearly professionalizing him (Technico-commercial engineer).

Practicals informations :

- > **School :** Grenoble INP, UFR PhITEM (physique, ingénierie, terre, environnement, mécanique)
- > **Level :** Baccalaureate +5
- > **Duration :** 2 years
- > **Credits :** 120
- > **Course type :** Initial and Continuing Education
- > **Location(s) :** Grenoble - University campus
- > **Contacts :**

Programme director

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Programme administration

Application
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Registrar's Office for the Master in Physics
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