

<b>Identificative data of the program</b>	
<b>Code</b>	HDK0R
<b>Denomination</b>	Physics
<b>Areas of the program</b>	Sciences Engineering and Architecture
<b>Maximum number of students</b>	40
<b>URL of the program</b>	<a href="https://www.ub.edu/portal/web/fisica/programa-de-doctorat-de-fisica">https://www.ub.edu/portal/web/fisica/programa-de-doctorat-de-fisica</a>

<b>ADMISSION AND ACCESS OPEN</b>	<b>CALENDAR</b>
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<b>Coordinator</b>	
<b>Name</b>	Assumpta Parreño García
<b>Centre</b>	Faculty of Physics
<b>E-mail</b>	aparrenog@ub.edu

<b>Faculty/Registering Centre</b>
Faculty of Physics

In general, to access an official UB doctoral program, students must hold an official Spanish bachelor's degree, or equivalent, and a university master's degree and have passed a minimum of 300 ECTS credits in their bachelor's and master's degree studies. However, there are different ways of access depending on whether the previous studies have been completed in Spain or abroad.

The process consists of two phases that are carried out through the same application. The first phase is the admission and the second phase is the access.

Application for admission and access.

<a href="#">Doctorate enrolment fees</a>
<a href="#">Grants and financial aid</a>

## Specific requirements for admission to the doctoral program

Ideally, candidates should hold a master's degree in Physics or related sciences. Candidates with other qualifications will also be considered, provided that they meet the general academic requirements.

In addition to the general admission requirements, the Academic Committee has set the following requirements:

1. Access from related degrees, depending on the specific content and its compatibility with the research areas covered by the doctoral programme.
2. A level of comprehension equivalent to B1 in any of the languages commonly used in the field in question, particularly English.

Before starting with the admission processes, candidates must find a thesis director, who must be doctor, Spanish or foreign, member of the University of Barcelona or working in other research institutions in the Barcelona area. The director must have accredited research experience, or, if applicable, the accreditation of merits that are comparable when the researcher occupies a position in which they are not applicable.

Accredited research experience is understood as the fulfillment of any of the following conditions:

- a. To have one or six active research periods.
- b. To have 810 hours of research recognized in the academic dedication plan of the University of Barcelona.

The candidate must provide a [research proposal](#) and a signed official letter from the director accepting the supervision of the candidate.

## Steps in the admission process:

1. Create an account [here](#) and enter the admission details:
  - a) research line
  - b) full-time or part-time dedication
  - c) thesis supervisor(s)
  - d) tutor
  - e) faculty where enrolled (Physics)
  - f) faculty, department, or institution where the research will be performed
  
2. Submit the documentation:
  - a) NIF/NIE/Passport
  - b) Attested photocopies of degree certificate (or equivalent) and master's degree certificate
  - c) Attested photocopy of academic records including the subject and qualification, of the Bachelor (or equivalent) and master degrees, including the transcript average mark
  - d) Research proposal (template can be found at the top of this [webpage](#))
  - e) Pre-acceptance of advisor (free format, one paragraph, with the advisor(s) signature)

Check requirements for academic documents depending where previous studies were completed:

<https://www.ub.edu/escoladoctorat/en/access-and-admission/admission>

3. Finish the application: "Admission status: registered"

## Offered research lines:

### 1. Astronomy and Astrophysics:

Coordinator: Dr. Alberto Manrique, Departament de Física Quàntica i Astrofísica,  
[a.manrique@ub.edu](mailto:a.manrique@ub.edu)

Research:

<https://icc.ub.edu/research-areas>

<https://www.ub.edu/portal/web/dp-fquanticaastrofisica>

### 2. Applied Physics and Optics:

Coordinator: Dr. Arturo Carnicer, Department of Applied Physics,  
[artur.carnicer@ub.edu](mailto:artur.carnicer@ub.edu)

Research:

<https://www.ub.edu/portal/web/dp-fisica-aplicada>

### 3. Condensed Matter Physics:

Coordinator: Dr. Giancarlo Franzese, Department of Condensed Matter Physics,  
[gfranzese@ub.edu](mailto:gfranzese@ub.edu)

Research:

<https://www.ub.edu/in2ub/research-areas/>

<http://ubics.ub.edu/index.php>

<https://www.ub.edu/portal/web/dp-materia-condensada/recerca>

### 4. Particle Physics and Gravity:

Coordinator: Dr. Joan Soto, Departament de Física Quàntica i Astrofísica,  
[joan.soto@ub.edu](mailto:joan.soto@ub.edu)

Research:

<https://icc.ub.edu/research-areas>

<https://www.ub.edu/portal/web/dp-fquanticaastrofisica>

### 5. Electrical materials, sensors and micro/nanosystems:

Coordinator: Dr. Daniel Navarro, Departament d'Enginyeria Electrònica i Biomèdica.  
[dnavarro@ub.edu](mailto:dnavarro@ub.edu)

Research: <https://www.ub.edu/portal/web/dp-electronica>

### 6. Meteorology:

Coordinator: Dr. Joan Bech, Departament de Física Aplicada,  
[joan.bech@ub.edu](mailto:joan.bech@ub.edu)

Research:

<https://www.ub.edu/portal/web/dp-fisica-aplicada/meteorologia>