



**UNIVERSITAT POLITÈCNICA
DE CATALUNYA
BARCELONATECH**

**REGULATIONS FOR THE DOCTORATE
PROGRAMME IN NUCLEAR
AND IONISING RADIATION
ENGINEERING (DPNIRE)**

**Document approved by the Academic Committee of the
Doctorate Programme in
Nuclear and Ionising Radiation Engineering**

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REGULATIONS FOR THE DOCTORATE PROGRAMME IN NUCLEAR AND IONISING RADIATION ENGINEERING

1. Preamble

As a general rule, the UPC's regulations for doctorate studies (available at [https://doctorat.upc.edu/ca/repositori-de-documents/normativa-academica-doctorat_eng-curs-19-20-1.pdf/download/file/Normativa academica doctorat ENG curs 19-20\(1\).pdf](https://doctorat.upc.edu/ca/repositori-de-documents/normativa-academica-doctorat_eng-curs-19-20-1.pdf/download/file/Normativa%20academica%20doctorat_ENG%20curs%2019-20(1).pdf) and related links) are applicable. This document describes the specific regulations for the doctorate programme in Nuclear and Ionising Radiation Engineering that are not covered in the aforementioned regulations.

2. Admission to the doctorate programme

The preferred route of admission to the doctorate programme is to have taken a master's degree related to nuclear engineering in one of the doctorate programme's subject areas. In the case of other master's degrees, the Academic Committee of the Doctorate Programme must assess whether it is suitable and, if necessary, state the bridging courses that must be taken.

3. Appointment of tutors

When they apply for admission, PhD candidates must state their academic background and subject preferences (see the web pages of the promoting units) in the online form and, most importantly, they must attach a letter of motivation in which they also provide details of how they plan to fund their studies. This information is used by the Academic Committee of the programme to select the tutors from among the qualified staff associated with the doctorate programme.

4. Research Plan

In accordance with the UPC's doctorate regulations, PhD candidates must submit a research plan within a year of having enrolled for the first time. The terms, conditions and procedure for submitting and defending the research plan are specified in the aforementioned regulations.

5. Doctoral thesis deposit

Two situations are possible: (1) If PhD candidates have at least two high-quality scientific articles published (see below the criteria for considering an article to be of high quality), theses may be deposited once the Academic Committee of the programme has approved the deposit. (2) In other cases, the Academic Committee of the programme appoints two experts external to the UPC, who issue an assessment report on the quality of the thesis. In any event, the Academic Committee of the programme has the authority to require the intervention of external expert referees, or not to require it, as it deems appropriate and in a duly justified manner.

A scientific article is considered to be of high quality if it fulfils the following requirements:

- a) It has been published while the PhD candidate is following the doctorate programme.
- b) The PhD candidate is the first or second author.
- c) It has been published in an indexed journal between the first and third quartiles in the area of knowledge, in accordance with the classification published in the databases recognised in the scientific world, such as Web of Science.

This requirement allows publications to be identified automatically. The Academic Committee of the programme may consider other publications valid on a case-by-case basis.

6. External experts and thesis examination committee

Candidate external experts and examination committee members are automatically considered to have proven research experience if they have 10 or more publications with 10 or more citations each, that is, if they have an h-index of 10 or more. In other cases, the Academic Committee of the programme will evaluate candidates' experience on a case-by-case basis.

7. International Doctorate mention

Theses opting for the International Doctorate mention must be subjected to an assessment process by two international experts. They must be doctors belonging to a higher education institution or research centre outside Spain, who must issue officially certified reports on the thesis. The thesis examination committee must include at least one international member.

8. Article-based theses

To submit an article-based thesis, a minimum of four high-quality articles are required, in accordance with the criteria outlined above, and on a topic related to the research plan.

The specific regulations for article-based theses can be consulted at https://doctorat.upc.edu/es/escuela/legislacion-y-normativas/compendios/normativa-compendio-ing-nuclear-y-radiac-ionizantes_cp_29-11-2016_es.pdf/

Academic Committee of the Doctorate Programme in Nuclear and Ionising Radiation Engineering
