



Internal regulations for the PhD programme in MATHEMATICS

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PART I

General provisions

Article 1

The PhD programme

1. The PhD programme in Mathematics aims to train highly qualified researchers in the disciplines MATH-01/A (Mathematical Logic), MATH-01/B (Didactics and History of Mathematics), MATH-02/A (Algebra), MATH-02/B (Geometry), MATH-03/A (Mathematical Analysis), MATH-03/B (Probability and Statistics), MATH-04/A (Mathematical Physics), MATH-05/A (Numerical Analysis), MATH-06/A (Operational Research).
2. The official languages of the PhD programme are Italian and English.
3. The administrative headquarters is the Department of Mathematics.

PART II

Governing bodies

Article 2

Governing bodies of the PhD programme

1. The governing bodies of the programme are the Coordinator and the Faculty Council.
2. The Deputy Coordinator, appointed by Rector's Decree upon designation by the Coordinator, replaces the latter in the event of absence or impediment.
3. In accordance with the University Regulations on PhD programmes, the composition of the Faculty Council for each PhD cycle is determined by the Faculty Council.

Applications for admission to the Faculty Council must be submitted by 31 January each year through a communication sent to the Coordinator, accompanied by the applicant's CV; requests to withdraw from the Council must also be sent to the Coordinator. In the application, candidates, in addition to attaching their CV, may indicate any activities carried out within PhD programmes, such as teaching, thesis supervision, etc. They must also specify the contribution they intend to make to the PhD programme.

The Faculty Council will assess the applications as a whole prior to the annual accreditation. To join the PhD Faculty Council, candidates must meet the legal requirements. The Faculty Council will evaluate applications taking into account the candidates' scientific profile, their potential contribution to the programme, the need to ensure adequate representation of the different academic disciplines, and, where possible, gender balance.

Article 3
Permanent or subject-specific governing bodies

1. The Faculty Council establishes the following Committees:

- **Review Committee:** It analyses questionnaires on PhD candidates' opinions, interviews conducted by AlmaLaurea with those who have obtained the degree, and organises, monitors and oversees the quality assurance procedures of the PhD programme.

It prepares an annual report on the activities carried out. It is designated by the Faculty Council and consists of the Coordinator or Deputy Coordinator, three other Faculty Council members, one PhD candidate selected from among the PhD representatives on the Faculty Council, and one member of the technical-administrative staff. Its members serve for three years.

- **Study Plans and Year Progression Committee:** It approves PhD candidates' study plans, verifying their consistency with the planning of teaching and research activities decided annually by the Faculty Council, in accordance with the University Regulations on PhD programmes, analyses annual reports and organises year progression interviews. It is appointed by the Faculty Council and consists of two Faculty Council members, who serve for three years.

PART III
Admission

Article 4
Admission procedures

1. The admission procedures consist of:

- **CV assessment** (the candidate's educational background, any research experience and any publications will be assessed; a short paragraph, maximum 1 page, describing the reasons for applying to the PhD programme in Mathematics at the University of Pisa and, in the case of subject-related grants, the reasons for applying to undertake doctoral research on the specific subject will be appreciated).
- **Interview** (it will be based on the assessment of knowledge, research aptitude, and interest in scientific development. The interview will also aim to verify the candidate's basic preparation and to discuss the research interests developed during their studies and, in the case of subject-related grants, to assess the candidate's aptitude and interest in conducting research within the specific subject).

2. The scores assigned to the procedures and the passing thresholds are as follows: a maximum of 40 points is assigned to CV assessment, with a minimum threshold of 24 out of 40 for admission to the interview; a maximum of 60 points is assigned to the interview, with a minimum threshold of 30 out of 60 for passing.

3. The Call for admission to the programme must require the following documents to be attached to the application:

(a) the candidate's CV;

- (b) the Master's degree thesis or, for candidates who have not yet obtained the degree, a summary thereof;
- (c) the diploma supplement or equivalent documentation relating to all examinations taken throughout the candidate's university career, including examination marks and the final mark for both Bachelor's and Master's degrees, where already obtained (or equivalent qualifications);
- (d) a copy of any publications;
- (e) the names and contact details (including e-mail addresses) of at least two lecturers or scholars in Mathematics available to provide references through the dedicated procedure.

PART IV

Teaching activities and assessment

Article 6

Supervisor

1. At the first Faculty Council meeting following the enrolment of new PhD candidates, the Faculty Council assigns each candidate a supervisor (and at least one co-supervisor). The supervisor is preferably selected from among the members of the Faculty Council. If the supervisor is not a member of the Department of Mathematics of the University of Pisa, at least one co-supervisor must belong to the Department.

Article 7

Teaching activities

1. Seminars, courses and year progression interviews are held in Italian or English. In accordance with the University Regulations on PhD programmes, the Faculty Council plans the teaching and research activities of the programme for each academic year.
2. Each PhD candidate submits their study plan, consistent with the planning decided by the Faculty Council, within two months from the start of the first and second year, to the Study Plans and Year Progression Committee, which evaluates it, after consulting the Supervisor, within three months from the start of the year. Subject to a reasoned assessment of their consistency with the candidate's educational background and the objectives of the programme, the Committee may also approve courses not included in the annual planning decided by the Faculty Council. The first-year study plan must include at least two courses to be attended and indicate at least one course for which the candidate intends to take the examination. The second-year study plan must report on the progress of the first year and include the courses and examinations necessary to fulfil the teaching requirements of the entire PhD programme described in the following paragraph.
3. Each PhD candidate must attend at least four courses (approved in the study plan) and pass the final assessment of at least two courses (approved in the study plan), according to the following schedule:
 - by the end of the first year, the PhD candidate must have attended at least two courses and taken at least one examination;
 - all examinations must be taken within three months from the start of the third year.

Article 8

Annual assessment

1. At the end of each year, the PhD candidate submits:
 - a **written report** on teaching and research activities;
 - any scientific outputs (publications, conference presentations).
2. By the end of the first year, the PhD candidate also takes part in an interview with the Coordinator and Deputy Coordinator in which the written report on teaching and research activities is discussed and the progress of the thesis project is assessed.
3. By the end of the second year, the PhD candidate also submits a written document outlining the progress of the thesis. This document and the report on teaching and research activities are discussed before a committee appointed by the Faculty Council, which assesses the progress of the thesis.
4. After assessing the written report on teaching and research activities and obtaining the opinions of the supervisor and, in the case of progression from the second to the third year, of the committee that assessed the progress of the thesis, the Faculty Council decides on the successful completion of the year or possible exclusion (and, for candidates who have completed the first or second year, progression to the following year).

PART V

Awarding of the degree

Article 9

Specifications on the thesis

1. The PhD thesis must normally be written in English, with a summary in English. The Faculty Council may authorise the thesis to be written in another language.

PART VI

Final provisions

Article 10

Transitional and final provisions

1. In accordance with Article 5, paragraph 3, of the University Regulations on PhD programmes, these regulations and any subsequent amendments are proposed by the Faculty Council, approved by the Department Councils involved in establishing the programme, and submitted to the Central Administration for subsequent approval by the Academic Senate, subject to a favourable opinion of the Board of Directors.
2. For matters not expressly provided for in these Regulations, reference is made to the University Regulations on PhD programmes and to the applicable national legislation.

3. These Regulations enter into force on the day following their publication on the Official Online Notice Board and on the University website and apply to all those enrolled in the PhD programme in Mathematics.