



UNIVERSITY OF PAVIA

**PhD Program in Chemical and Pharmaceutical
Sciences and
Industrial Innovation**

Regulations governing the PhD Program in Chemical and Pharmaceutical Sciences and Industrial Innovation

(Approved by the Academic Board at its meeting of 18/03/2026)

Title I - General Provisions

Art. 1 - Scope and definitions

These Regulations apply to all activities of the PhD Program in Chemical and Pharmaceutical Sciences and Industrial Innovation of the University of Pavia (hereinafter, the PhD Program). For all matters not governed by these Regulations, reference shall be made to the University Regulations on PhD Programs, issued by Rectoral Decree no. 900 of 1 April 2022, as subsequently amended (hereinafter, the University Regulations). The PhD Program belongs to the School for Advanced Doctoral Training.

The body responsible for the operation of the PhD Program is the Academic Board (hereinafter, the Board), under the guidance of a Coordinator elected by the Board itself. The Coordinator may be assisted and, when necessary, temporarily replaced by a Deputy Coordinator appointed by the Coordinator.

The PhD Program in Chemical and Pharmaceutical Sciences and Industrial Innovation aims to train graduates in scientific research and its industrial applications in the following areas: organic synthesis and reactivity; photochemistry; synthesis and structural and functional characterization of organic and inorganic molecules and coordination compounds; synthesis of new multifunctional polymeric, metallic, ceramic and composite materials, including meso- or nanostructured materials; physicochemical and functional properties of materials; design and development of new drug candidates; advanced analytical methodologies in chemistry and pharmaceutical chemistry; and design and development of innovative drug-delivery systems and medical devices.

Title II - Academic Board and Coordinator

Art. 2 - Academic Board

For the definition, composition, organization and description of the duties of the Board, and for the duties of the Coordinator, without prejudice to the provisions of the University Regulations, the following provisions shall apply.

Duties of Academic Board members.



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Membership of the Board entails a series of duties that are essential to the proper functioning of the PhD Program. Attendance at Board meetings is mandatory. Members who are unable to attend for serious and documented reasons must submit a request for an excused absence.

Board members are responsible for keeping their publications up to date on the IRIS platform and for verifying that they meet the applicable eligibility requirements. They must also promptly inform the Coordinator and the UOC Training and Research if they no longer meet the above requirements.

Title III - Admission to the PhD Program, Teaching and Training

With regard to the structure of the call for applications, the composition of the selection committee and the definition of the evaluation criteria, without prejudice to the University Regulations, the following provisions shall apply.

Art. 3. Publication of the call for applications.

The call for applications is published on the University website dedicated to PhD Programs: <http://phd.unipv.it> and through a link on the website of the PhD Program in Chemical and Pharmaceutical Sciences and Industrial Innovation:

<https://chimica.dip.unipv.it/it/didattica/dottorato-di-ricerca/dottorato-sienze-chimiche-e-farmaceutiche-e-innovazione-industriale>

Art. 4. Start of the PhD Program

Following admission to the PhD Program, the PhD student shall submit their research project and study plan by the date specified by the Academic Board. The Board shall review the submitted documentation and officially appoint the Supervisors and co-Supervisors of the new PhD students.

Art. 5. Composition of the Study Plan

PhD students are free to choose the courses to be included in their study plan, including courses outside those offered by the PhD Program, provided that they are part of third-level teaching offered by the University of Pavia or another university. The study plan proposed by the PhD student, subject to the Supervisor's positive opinion, must be approved by the Board.

Art. 6. Year-to-Year Progression

To be admitted to the following year and/or to access the final examination for the award of the degree, PhD students must meet the following requirements in terms of Training Credits (CF).

Teaching activities

Institutional courses for the PhD Program

Year I: 12 CF; Year II: 12 CF; Year III: --; Total: 24 CF

Presentation of doctoral research

Year I: 3 CF; Year II: 3 CF; Year III: 2 CF; Total: 8 CF

Other teaching activities (seminars for PhD students, other courses, Schools, Conferences, etc.).



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Year I: 3 CF; Year II: 3 CF; Year III: 3 CF; Total: 9 CF

Experimental Research.

Year I: 42 CF; Year II: 42 CF; Year III: 43 CF; Total: 127 CF

During their doctoral career, each PhD student must obtain at least 6 CF through courses or activities aimed, pursuant to Art. 6, paragraph 1, letter h of the University Regulations on PhD Programs, at acquiring transversal skills. Transversal-skill credits may be obtained through: attendance at courses offered by SAFD; attendance at initiatives promoted by the PhD Program having the characteristics set out in Art. 6, paragraph 1, letter h of the University Regulations on PhD Programs; or attendance at initiatives organized by other bodies, including bodies external to the University of Pavia, which, on the basis of a reasoned assessment by the Academic Board pursuant to Art. 29-bis, paragraph 3 of the University Regulations on PhD Programs, correspond to the purposes referred to in the aforementioned Art. 6, paragraph 1 and are consistent with the PhD student's research project. Of the 6 transversal-skill CF, at least 3 must be obtained by attending courses offered by SAFD.

At the end of each year of activity, the PhD student must also prepare an annual report accompanied by all supporting documentation (for example, certificates of attendance at courses and conferences, publications and awards). The PhD student's Supervisor must submit a written assessment of the activities carried out during the previous academic year for the purposes of progression to the following year or completion of the study and research program. The material must be sent to the Coordinator at phd.cfi@unipv.it.

Art. 7. Supplementary Teaching Activities.

PhD students may carry out supplementary teaching activities, seminars, tutoring and assistance in teaching laboratories up to a maximum of 50 hours per academic year (of which a maximum of 40 hours may consist of supplementary teaching, in accordance with the University Regulations).

Art. 8. Research periods abroad.

The PhD Program provides for and promotes research periods at foreign academic institutions, organizations or industrial research laboratories, with the aim of fostering cultural exchange and creating or consolidating long-term scientific collaborations between research groups participating in the PhD Program and research groups at foreign institutions. Requests for such periods must be submitted to the Board sufficiently in advance to allow proper and thorough evaluation of the proposal (at least three months before departure). There is no minimum period of stay at the host institution, but the period may not exceed 18 months.

Art. 9. Participation in international conferences or schools.



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The PhD Program promotes and supports students' participation in international conferences or schools and requires, as an essential condition, that the student be a co-author of a scientific contribution presented at the event (as a Poster or Oral Communication).

Title IV - Rights and Duties of PhD Students and Supervisors

With regard to the rights and duties of PhD students, without prejudice to the provisions of the University Regulations on PhD Programs, the following provisions shall apply.

Art. 10. PhD Students.

The Academic Board emphasizes the fundamental right of students enrolled in the PhD Program to carry out their activities in a climate of collaboration and harmony.

Art. 11. Supervisors.

Supervisors are responsible for ensuring that PhD students comply with the stated obligations and carry out their activities under the best possible conditions.

Supervisors are also required to submit an annual assessment of the PhD student's work and to collaborate in organizing the year-to-year progression examination. By the end of each year of activity, Supervisors are required to provide comments on the progress of their PhD student. The material must be sent to the Coordinator at phd.cfi@unipv.it.

Title V - Award of the Degree

The steps for submitting the application, evaluating the thesis and taking the final examination are described in detail at the following link:

<https://chimica.dip.unipv.it/it/didattica/dottorato-di-ricerca/dottorato-scienze-chimiche-e-farmaceutiche-e-innovazione-industriale>

With regard to the procedure for obtaining the degree of Doctor of Philosophy in Chemical and Pharmaceutical Sciences and Industrial Innovation, and in addition to the provisions of the University Regulations, the following shall apply.

Art. 12. *Doctoral Thesis.*

PhD students who have reached the end of their study and research program must submit a thesis prepared in the format deemed most appropriate, as agreed with their Supervisor and co-Supervisor.

Theses may be written and presented, at the PhD student's discretion and in agreement with the Supervisor, as a collection of articles published (or in the process of publication/submission)



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during the doctoral program. In such cases, the thesis must be supplemented by a general introductory chapter, where appropriate by a general methodological description, and by a final chapter containing conclusions and perspectives.

Alternatively, candidates may write their thesis as a monograph organized in the manner deemed most appropriate, always in agreement with the Supervisor.

The official language of the thesis is English.

Art. 13. Preliminary Evaluation of the Doctoral Thesis.

The thesis must be sent for evaluation and review to two evaluators external to the University of Pavia, proposed by the Supervisor to the Academic Board and appointed by the Board. They shall provide an evaluation report together with any requests for revision.

Art. 14. Final Evaluation Examination.

Once the opinions of the external evaluators have been obtained, the candidate must give an oral presentation (in English, 30 minutes) describing the methodology and results obtained during the study period, before a committee comprising one internal member (a faculty member of the University of Pavia) and which may also include the two external evaluators referred to above, identified pursuant to Art. 13, who examined the written thesis. The committee shall prepare a final evaluation document for the candidate and, if the outcome is positive, shall propose the award of the degree of Doctor of Philosophy in Chemical and Pharmaceutical Sciences and Industrial Innovation.

Title VI - Relations with External Bodies, Civil Society and Industry

Art. 15. - Rights and Duties of (Co-)Funders.

Italian or foreign companies or external bodies may fund three-year PhD scholarships, subject to presentation of the research topic to the Academic Board together with a letter of intent in which they undertake to cover the costs of the scholarship for the three years (in full or in part, and in the latter case indicating the co-funding percentage) and to enter into an Agreement. The costs include the scholarship amount, the estimated INPS contribution payable by the funding body, and funding for the PhD student's research activities in Italy and abroad equal to 10% of the scholarship amount (for years one to three). In addition, the company/body undertakes to cover the scholarship increase in the event of a stay abroad, pursuant to Article 9, paragraph 3, of Ministerial Decree no. 226 of 30 December 2021, which provides that the scholarship amount shall be increased by fifty percent for any duly authorized and documented period spent abroad by the PhD student. If the scholarship amount is increased by ministerial decree, the body/company undertakes to pay an additional sum equal to the amount of that increase. Likewise, it undertakes to pay any sums required to cover additional costs arising from tax and social-security updates.



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Art. 16. *Involvement of PhD Students in Third Mission Activities.*

PhD students are made aware of Third Mission and Public Engagement activities in light of the development and promotion of these areas in universities at national and European level. The Academic Board encourages engagement with the wider community and participation in initiatives that are not limited solely to technology transfer, through information on courses, seminars and outreach initiatives within the framework of Third Mission, which is regarded as an essential component of research and training activities.

The activities of PhD students represent an important source of ideas and projects that can enrich the case studies used for the qualitative and quantitative assessment of universities' degree of engagement in Third Mission activities.

Title VII - Final and Transitional Provisions

1. For all matters not expressly provided for in these Regulations, the provisions contained in the University Regulations on PhD Programs approved by Rectoral Decree no. 900 of 11 April 2022, as subsequently amended, shall apply.
2. These Regulations shall fully apply to PhD cycles activated after their entry into force.