

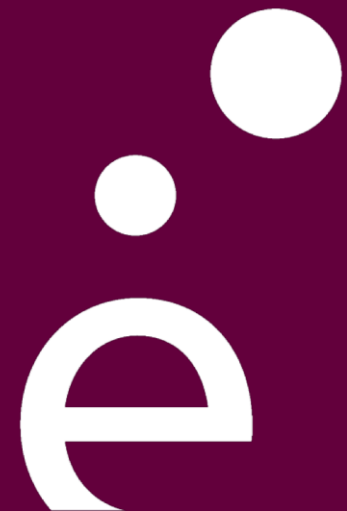
Formation et activités doctorales complémentaires à l'ED PHENIICS

Training and complementary doctoral activities at ED PHENIICS

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Text of the law



0/ Doctoral training is governed by a series of official texts stemming from the law.

1/ The internal regulations for doctoral studies at the University of Paris-Saclay, adopted in October 2020, provide the main guidelines for its implementation within the University PSay.

2/ The internal regulations of PHENIICS specify the concrete implementation within the ED

Partie législative (Articles L111-1 à L974-3)

- Troisième partie : Les enseignements supérieurs et la recherche (Articles L611-1 à L854-2)
 - Livre VI : L'organisation des enseignements supérieurs et de la recherche (Articles L611-1 à L684-3)
 - Titre Ier : L'organisation générale des enseignements (Articles L611-1 à L614-3)
 - Chapitre II : Déroulement des études supérieures. (Articles L612-1 à L612-7)
 - Article L612-1 Article L612-1-1

Section 3 : Le troisième cycle. (Article L612-7)

Naviguer dans le sommaire du code

Article L612-7

Version en vigueur depuis le 27 décembre 2020

Modifié par LOI n°2020-1674 du 24 décembre 2020 - art. 18
Modifié par LOI n°2020-1674 du 24 décembre 2020 - art. 31

Le troisième cycle est une formation à la recherche et par la recherche qui comporte, dans le cadre de formations doctorales, la réalisation individuelle ou collective de travaux scientifiques originaux. Ces formations doctorales sont organisées en étroite liaison avec des laboratoires ou équipes de recherche dont la qualité est reconnue par une évaluation nationale périodique. Elles prennent en compte les besoins de la politique nationale de recherche et d'innovation et comportent une ouverture internationale. Elles constituent une expérience professionnelle de recherche, sanctionnée, après soutenance de thèse, par la collation du grade de docteur.

Les formations doctorales sont organisées dans le cadre d'écoles doctorales dans des conditions fixées par arrêté du ministre chargé de l'enseignement supérieur. Elles comprennent un encadrement scientifique personnalisé de la meilleure qualité ainsi qu'une formation collective comportant des enseignements, séminaires ou stages destinés à conforter la culture scientifique des doctorants, à préparer leur insertion professionnelle ou leur poursuite de carrière dans le secteur public comme dans le secteur privé et à favoriser leur ouverture internationale. L'arrêté du ministre chargé de l'enseignement supérieur définit les conditions dans lesquelles un établissement d'enseignement supérieur peut être accrédité, pour une durée limitée, à organiser des formations doctorales et à délivrer le doctorat à la suite d'une

université
PARIS-SACLAY

Règlement intérieur des études doctorales de l'Université Paris-Saclay

ADOPTÉ SUR PROPOSITION DE L'ASSEMBLÉE DES DIRECTEURS ET DIRECTRICES DES ÉCOLES DOCTORALES ET APRES AVIS DU CONSEIL DE LA POLITIQUE DOCTORALE (VOTE ELECTRONIQUE DU 29/09/2020 AU 01/10/2020) ET APRES APPROBATION A L'UNANIMITE DE LA COMMISSION DE LA RECHERCHE DU CONSEIL ACADEMIQUE (LE 21/10/2020)

Doctoral training at PHENIICS Doctoral School:

new rules applicable from the start of the 2021-2022 academic year

From the beginning of the 2021 academic year, the University of Paris-Saclay will propose a new system of validation of doctoral training based on a points system, and it will be up to each Doctoral School (ED) to apply the Paris-Saclay framework according to its own disciplinary or other specificities. **In this new system, the PhD student must acquire between 20 and 30 training points during his or her thesis, divided into the following three main categories :**

Training and complementary doctoral activities : the main objectives



In the national regulations, **in addition to training through laboratory research**, doctoral training also includes group training and work experience activities intended mainly to (cf. article 612-7 of the Education Code):

- strengthen **the scientific culture** of doctoral students,
- prepare them for their **professional future** in the public and private sectors,
- promote their **international exposure**.

In addition to these major objectives, other, more specific objectives are also set out in national texts: each doctoral student must have received training in **research ethics and scientific integrity** and doctoral schools must ensure that each doctoral student is aware of or trained in the issues of **open science** on the one hand and **sustainable development** on the other.

Last but not least, these complementary doctoral activities and training courses must contribute to the development of the skills of future Doctors, as defined in the decree of 22 February 2019, which registers the Doctorate (PhD) in the national repertoire* of professional certification.

* this repertoire serves as a reference for company Human Resource Departments and for professional branches

Training and complementary doctoral activities : a system of “training points”



The doctoral training plan is represented in terms of "training points" in order to facilitate the taking into account of activities of a very different nature (courses, training, participation in seminars, validation of various experiences, associative commitment, etc.).

The choice of using points, rather than referring to course hours, is primarily intended to **avoid implicitly indicating that the reference form of learning would be the course**, while other forms of learning (e.g. through experience) would remain considered as exceptions.

The use of points should also **facilitate international partnerships** (international thesis co-tutelles) and the master-doctorate link, based on the equivalences between points, course hours and personal work hours that are already commonly accepted in the LMD system.

This should also encourage the setting up by the Graduate Schools of training courses and activities (e.g. seminar cycles) providing a broader scientific culture and aimed at all members of a Graduate School, whether they are master's students, doctoral students or researchers and teacher-researchers.

Training and complementary doctoral activities : the PHENIICS requirements



you must acquire **25 training points** over the whole duration of your thesis, divided into the following three main categories :

- ☞ Training directly related to your thesis work (6-15 pts).
- ☞ Training designed to broaden your scientific culture (6-15 pts).
- ☞ Training related to your future professional insertion either in the academic (or more generally in the public sector) or in the private sector (6-15 pts).

A general equivalence is also proposed: 1 point ↔ 5h of training.

Training and complementary doctoral activities : the PHENIICS requirements



| | |
|---|---|
| Doctoral School or Master courses | pts flat rate + 1 pt/5h |
| Scientific events with a pedagogical vocation (summer schools, specialisation workshops etc...) | 5h = 1 pt (max 10 pts/category) |
| Student representatives in bodies (ED council, lab, Graduate School, university ...) | 1 year mandate = 2 pts |
| Participation in juries, evaluations, etc. (e.g. doctoral school contest) | 1 pt/day (max 3 pts) |
| Involvement in a student association (e.g. D2I2) | 1 pt/year of mandate (max 2 pts) |
| Organisation of scientific events | PHENIICS Fest = 5 pts Other: 1 pt/conference day + 1 pt flat rate if in person |
| Supervision of trainees/internships | Flat rate 3 pts |
| Teaching duties | Pedagogy training courses followed: 1 pt/half day (max 5 pts) Teaching hours : 20h ETD = 1 pt (max 9 pts) |
| Scientific mediation mission (e.g. Palais de la Découverte) | Pedagogy training courses followed: 1 pt/half day (max 5 pts) Mediation activity : pts = nb of days of activity/4 (max 5 pts) |
| Other | See your PHENIICS referent |

2021-22 PHENIICS scientific lectures



| PHENIICS Courses | Teacher | Date |
|---|--|------|
| Where do we stand in nuclear structure theory ? | Jean-Paul EBRAN (CEA Bruyères-le-Châtel) | |
| Astro/cosmo promised by cap'tain Hello | To be announced | |
| Quarkonium Production | Jean-Philippe Lansberg (IJCLab) | |
| Formation Geant 4 | Laurent Garnier (IRISA), Ivana Hrivnacova (IJCLab), Marc Verderi (LLR) | |
| Understanding basic principles of particle accelerators | Nicolas Delerue, David Longuevergne, Guillaume Martinet, Bruno Mercier, Luc Perrot | |
| Beam manipulation for precision experiments | Enrique Minaya (IJCLab) | |
| Maintenance and operation of Ge detectors for high-resolution nuclear gamma spectroscopy | Gabriel CHARLES (IJCLab) To be confirmed | |

Remark : a huge majority of IJCLab-Orsay lecturers... while there are many talented people at IRFU Saclay too

Hands on work, limited attendance : 6 people

Training and complementary doctoral activities : a few loose tips



- ☞ discuss with your supervisor your participation in a summer school well in advance
- ☞ avoid procrastination: no overloaded programme in 3rd year!
- ☞ if in doubt, talk to your PHENIICS referent !!

good training
and
welcome to PHENIICS doctoral school !