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**Individual Training Plan (ITP)**

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| **Requirements of the Individual Training Plan** |
| For each PhD student, an Individual Training Plan (ITP) is decided together with the supervisor. The training plan includes both compulsory and eligible courses.  To each course corresponds a specific amount of ECTS (European Credit Transfer System); Each ECTS is equivalent to 25 hours of training including the sum of 4 to 8 hours of lectures – depending on the complexity of the course – and of the remaining hours for personal study.  Courses are usually attended during the first year. In case this is not possible, they could be attended in the following years.  Upon approval of their supervisors, PhD students can ask to replace some courses with equivalent ones organized by other PhD programs, even abroad. The replacements must be based on a reasoned justification. |
| **Aims of the individual training plan** |
| The training activity is meant to let PhD students acquire the competences needed to carry out research in a specific scientific field. In this context, both specific and cross-disciplinary competences must be defined. PhD students, together with their supervisors, identify the competences to be acquired, considering the specific object of their research. |
| **Training Offer** |
| Attending scheduled courses and assessments   1. Definition of Course   *Teaching activity of at least 1 ECTS (lectures of 4 to 8 hours) including: 1. A final assessment; 2. Compulsory attendance of at least 70% of the lecture; 3. Evaluation of the lecture by the PhD student.*  A complete list of available courses can be found below.   1. Definition of Seminar   *Teaching activity, the total duration of which is less than 4 hours. Seminars are taught by qualified staff on highly specialized or cross-cutting themes.*  A continuously upgraded agenda can be found here: [Activities&Courses](https://www.sciproveg.com/spv/?page_id=3337&lang=en)  It is also recommended to follow the upgrade in the website <http://www.sciproveg.com>  Seminar dates will be also communicate to the PhD students directly from the PhD secretariat. |
| **Type of Training offer** |
| Crop Science offers different types of courses:   1. *Courses specific for Crop Science:*  * Crop Science courses. Courses proposed specifically for the Crop Science PhD students. They correspond to 3 courses (3 ECTS). To complete their training, PhD students *must* attend these courses which are indicated as “compulsory”. * Winter/Summer Schools. To complete their training PhD students *must* attend Winter/Summer Schools.  1. *Cross-disciplinary* and *Soft skills* activities:  * Compulsory courses. To complete their training, PhD students *must* attend a number of soft skills courses already allocated as compulsory for a total of 9.5 ECTS. * Eligible courses. To complete their training, PhD students *must* attend a number of soft skills courses for a total of at least 2.5 ECTS. * Seminars. To complete their training, PhD students *must* attend at least 4 seminars. * Group activities. To complete their training PhD students *can* take part in group activities. * Specialized courses. To complete their training, PhD students *can* attend specialized courses specifically relevant to his/her research. * Other training activities. PhD students *can* take part in other training activities to complete their compulsory training (e.g. courses organized by other PhD programmes at UNIPD or in other Universities, even abroad, Master course lectures, courses organized by qualified sector associations, etc.) * Conferences. To complete their training PhD students *can* attend scientific conferences. |

**Training offer: instructions for compilation**

On the basis of the above definitions, the student, together with the supervisor, must mark by an **X** the courses that she/he would like to attend, considering that the minimal requirement is **at least 15 ECTS**. Specifically, the student must follow 11 courses compulsory for Crop Science (already marked for a total of 12.5 ECTS), and select a number of eligible courses among the list below for a total of at least 2.5 additional ECTS.

**Updated details related to dates, syllabus, teaching rooms of each course are available [here](https://docs.google.com/spreadsheets/d/1B-F1b4Pq5OHKsMAPM-VBkyLUNOFf1t4D/edit?gid=1496158660" \l "gid=1496158660).**

**COURSES SPECIFIC FOR CROP SCIENCE (3 ECTS)**

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| **[X]** | **Experimental design in Crop Science: principles** (1 ECTS) – 1st year PhD Students  Teacher: L. Marini Where: Winter School in Paluzza (UD) - Italy  When: 18-21 February 2025 |
| **[X]** | **Experimental design in Crop Science: from lab to field** (1 ECTS) – 1st year PhD Students  Teacher: L. Marini Where: Winter School in Paluzza (UD) - Italy  When: 18-21 February 2025 |
| **[X]** | **Navigating the peer review process** (1 ECTS) – 2nd year PhD StudentsTeacher: L. Marini Where: Agripolis, Aula Studio Bonsembiante, DAFNAE, First Floor  When: 28-29 Nov. 2024, 9 am – 5 pm |

**CROSS-DISCIPLINARY AND SOFT SKILLS ACTIVITIES**

***Compulsory courses (9.5 ECTS)***

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| **[X]** | **Welcome to Agripolis (No ECTS)** Organized by: PhD Coordinators  Where: Aula Magna – Corte Benedettina  When: 7 Nov 2024, 9.30-13.30 | |
| **[X]** | **Welcome to DAFNAE (No ECTS)** Organized by: PhD Coordinators  Where: Room 1PS, 4.30 pm  When: 13 Nov 2024 | |
| **[X]** | **Welcome to Research (No ECTS)** Teacher: N. Bertin  Where: Agripolis, 12 CG When: 22 November 2024, 8.30-12.30 am (and November 2025) | |
| **[X]** | **Basic Statistics** (2 ECTS) Teachers: G. Zuecco, S. Iacopino Where: Agripolis, room 1MV When: 17-20 December 2024, 09:00-13:00 - 14:00-16:00 |
| **[X]** | **Applied Statistics with Applications in R** (2 ECTS) Teachers: Alessio Cecchinato and Sara Pegolo Where: Agripolis, Room 1MV and 2 MV When: 20-21 January 2025, 9.00-12.00 and 9.00-17.00 |
| **[X]** | **Experimental design with R: from theory to practice** (1,5 ECTS) Teacher: R. Mantovani and I. Piccoli Where: Agripolis, Room 1CG When: 4-7 February 2025, 9.00-13.00 |
| **[X]** | **Scientific Writing in English** (4 ECTS) Teacher: M. E. Olson Where: On-line course When: 26-30 May 2025 | |
| **[X]** | **Health and Safety at work (no ECTS)** Where: on-line course  When: at the PhD student's choice | |

***Eligible courses (choose for at least 2.5 ECTS)***

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| **[ ]** | **The role of the Principal Investigator** (1 ECTS)  Teacher: G. Renella Where: Agripolis, Room 16CG When: 22 January 2025, 9.00-13.00 |
| **[ ]** | **Introduction to your entrepreneurial post-doc life** (0,3 ECTS) Teachers: Alessandro Leonardi  Where: Agripolis, to be defined When: 10 June 2025, 11.00-13.00 |
| **[ ]** | **How to prepare and present a scientific paper** (1,5 ECTS) Teachers: S. Segato and D. Pettenella Where: Agripolis, to be defined When: 5-7 March 2025, 14.00-18.00 |
| **[ ]** | **Dissemination of science: contents and tools** (1,5 ECTS)   Teacher: M. Polidoro  Where: Agripolis, Room “Xiloteca” CG (first floor) When: 17-18 Feb 2025, 14.30-18.30 and 9.30-18.30 |
| **[ ]** | **Exploring with humans: from individual to collective data collection tools and techniques** (3 ECTS) Teachers: L. Secco, R. Da Re, E. Pisani, A. Moriggi  Where: Agripolis, to be defined When: 14-16 April 2025 |
| **[ ]** | **Ethics in writing and reviewing** (0,5 ECTS)   Teacher: M. Borga Where: Agripolis, TESAF council Room (to be confirmed)  When: 28 May 2025, 9.00-11.00 am (to be confirmed) |
| **[ ]** | **Media training** (0,5 ECTS)   Teacher: K. Leech Where: Agripolis, to be defined  When: 19 March 2025 (date have to be confirmed) |
| **[ ]** | **The evaluation of research output** (1 ECTS)   Teacher: L. Cei Where: Agripolis, room 1P  When: 27 January 2025, 09.00-16.00 |
| **[ ]** | **Research integrity: pills of ethics before spritz break (5 events - 1.5 h)** (1 ECTS) Organizers: M. Giantin, A. Squartini  Where: to be defined  When: to be defined (*Every year starting in 2025-26)* |
| **[ ]** | **PhD educational week on transferable skills** (no ECTS)  Organizers: UNIPD  Where: to be defined  When: to be defined (for info see: UniPD/ PhD Educational Week) |
| **[ ]** | **English and Italian languages** (no ECTS) Teacher: Centro Linguistico di Ateneo (CLA)  Where: See CLA's program When: See CLA's program |
| **[ ]** | **Italian languages for foreigners** (no ECTS)  Teacher: Centro Linguistico di Ateneo (CLA)  Where: See CLA's program When: See CLA's program |
| **[ ]** | **Climate change and forests** (1,5 ECTS) Teachers: D. Castagneri, A. Prendin Where: Agripolis (to be defined)  When: 19-20 March 2025 |
| **[ ]** | **THE AI ACCELERATION: Opportunities and Challenges of Large Language Models & Foundation Models for Academic Research and Education (0,5 ECTS)**  Teachers: C. Furlanello  Where: Agripolis (to be defined)  When: 21 May 2025 |
| **[ ]** | **Analysis and interpretation of transcriptomic data (2 ECTS)**  Teachers: G. B. Tornielli  Where: Agripolis, room 13 CG  When: 23-26 Jun 2025, 9.00-13.00 |
| **[ ]** | **Modeling and big data for biological systems (3 ECTS)** – 2nd year PhD Students  Teachers: M. Putti, E. Bachini  Where: Agripolis, Room Bonsembiante, DAFNAE I Floor  When: 4-6 and 10-12 Dec. 2024 |
| **[ ]** | **Advanced Statistics with R: Mixed models (2 ECTS)**  Teachers: C. Sartori  Where: Agripolis, Room MV1 and MV2  When: 28-31 Jan 2025, 10.00-13.00 |
| **[ ]** | **Geostatistics (2 ECTS)**  Teachers: M. Borga, G. Zuecco  Where: Agripolis (to be defined)  When: 23 April 2025 (to be confirmed) |
| **[ ]** | **Introduction to GIS (2 ECTS)**  Teachers: R. Rossi  Where: On-line via Zoom  When:27-28 March 2025, 9.00-13.00 |
| **[ ]** | **Geomatics and Earth surface modelling (2 ECTS)**  Teachers: F. Pirotti  Where: Room at Corte Benedettina (Legnaro) - Centro CIRGEO  When:13-14 and 17 March 2025 |
| **[ ]** | **Spatial statistics in regional economics (2 ECTS)**  Teachers: F. Pagliacci  Where: Agripolis, Room 5CG.  When: 12-14 Feb 2025, 13:00-17:00 |
| **[ ]** | **A better PhD experience: practical tools to improve your impact and self-efficacy (2 ECTS)**  Teachers: A. Moriggi  Where: Agripolis, room 1P  When: 24-25 Feb and 3-4 Mar. 2025, 09.00-13.00 |
| **[ ]** | **Living organisms as biorefineries toward a more sustainable future (0.5 ECTS)**  Teachers: Prof. van Zyl  Where: Agripolis  When:*Every two years (next 2025-26)* |
| **[ ]** | **Living Biotechnological approaches in the biorefinery concept (0.5 ECTS)**  Teachers: Prof. van Zyl  Where: Agripolis  When:*Every two years (next 2025-26)* |
| **[ ]** | **Science communication: Public speaking (0.5 ECTS)**  Teachers: External expert  Where: Agripolis (to be defined)  When: 10 Mar 2025 |
| **[ ]** | **Science communication: Social Media (0.5 ECTS)**  Teachers: External expert  Where: Agripolis (to be defined)  When: 11 Mar 2025 |
| **[ ]** | **DAFNAE PHD SCHOOL: Science Communication (2 ECTS)**  Teachers: External expert (Chiara Di Benedetto/Valeria Cappelli)  Where: Casa San Marco, Monteortone - Abano Terme (PD)  When: 8-9 Jan 2025 |

Please list here the courses not included above you will attend. You can choose courses provided by other PhD courses, or even by other universities.

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***Seminars:***

In addition, the PhD student must attend at least **4 seminars**. The list of seminars must be reported in the periodic reports due at the end of each year.

***Interdisciplinary teachings***

The PhD Office, in collaboration with other University Offices and external experts, offers PhD students interdisciplinary training courses, seminars, and lessons related to academic world, job market and career development. The calendar of the interdisciplinary teachings is available at: www.unipd.it/en/phd-interdisciplinary-teachings.

Any changes in your educational program should be communicated and approved by the Council of the course.

Agripolis, \_\_\_\_\_\_\_\_\_\_\_\_\_\_

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The PhD student           The Supervisor