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**Individual Training Plan**

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| **Requirements of the individual training plan** |
| For each PhD student, the individual training plan is established together with the supervisor. The training plan usually includes the courses as described below, to be chosen among the activities included in the training offer (see the list below).  ECTS value is equivalent to 25 hours of training which is 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.  **For Crop Science it is mandatory to attend:**   * *Courses specific for Crop Science*   5 courses, already marked, for a total of 4 ECTS   * *Cross-disciplinary* and *Soft skills* activities:   8 courses for a total of 15 ECTS (7.5 ECTS are already allocated) |
| **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** |
| Attend 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> |
| **Type of Training offer** |
| 1. Compulsory course. To complete their training, PhD students *must* attend those courses indicated as “compulsory”. |
| 1. Specialized course. To complete their training, PhD students *can* attend specialized courses. |
| 1. *Soft skills* course. To complete their training, PhD students *must* attend the suggested number of soft skills courses. |
| 1. Seminars. To complete their training, PhD students *must* attend at least four seminars (1 ECTS). |
| 1. Group activities. To complete their training PhD students *can* take part in group activities. |
| 1. Winter/Summer Schools To complete their training PhD students *must* attend Winter/Summer Schools. |
| 1. 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.) |
| 1. Conferences. To complete their compulsory training PhD students *can* attend conferences. |

**Training offer (instructions)**

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 select 8 courses among the list below. **Three compulsory courses are already marked** within ***Cross-disciplinary*** and ***Soft skills courses***and the PhD student has to select five courses among all the ***ELIGIBLE*** ones (not marked). Three out of these five courses must be selected among the ***Soft skills: research organization and communication***.

Additional courses listed under ***Other activities*** could be selected, but do not contribute to satisfy the minimal requirements (the ECTS reported are referred to other PhD Courses).

Beside the minimal requirements, the PhD students of Crop Science have **5** **additional compulsory courses** **already marked** (*see Courses specific for Crop Science*)**.**

**Updated details related to dates, syllabus, teaching rooms of each course are available [here](https://docs.google.com/spreadsheets/d/1YMk_BVtIoDTZkEFvbrJfir_u879v0GId/edit" \l "gid=121930982).**

***ELIGIBLE COURSES***

***Courses specific for Crop Science***

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| **[X]** | **Experimental design in Crop Science: principles** (1 ECTS) – 1st year PhD Students  Teacher: Lorenzo Marini Where: Paluzza (UD) - Italy  When: 19-22 February 2024 |
| **[X]** | **Experimental design in Crop Science: from lab to field** (1 ECTS) – 1st year PhD Students  Teacher: Lorenzo Marini Where: Paluzza (UD) - Italy  When: 19-22 February 2024 |
| **[X]** | **Navigating the peer review process** (1 ECTS) – 2nd year PhD StudentsTeacher: Lorenzo Marini Where: Agripolis  When: Autumn 2024 (to be confirmed) |
| **[X]** | **Living organisms as biorefineries toward a more sustainable future** (0.5 ECTS)  Teacher: Willem van Zyl Where: Agripolis  When: 4 April 2024 |
| **[X]** | **Biotechnological approaches in the biorefinery concept** (0.5 ECTS)  Teacher: Willem van Zyl Where: Agripolis  When: 5 April 2024 |

***Cross-disciplinary courses***

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| **[ ]** | **Basic Statistics** (2 ECTS) Teachers: Lorenzo Picco and Giulia Zuecco Where: Agripolis When: 12-14 December 2023 |
| **[ ]** | **Introduction to R for statistical analysis** (0,5 ECTS) Teacher: Giulia Zuecco Where: to be defined When: 11 January 2024 (9 am – 12 pm + 2 – 5 pm) |
| **[X]** | **Applied Statistics with Applications in R** (2 ECTS) Teachers: Alessio Cecchinato and Sara Pegolo Where: Agripolis When: 16-18 January 2024 (9 am - 12 pm) |
| **[ ]** | **Advances Statistics with R: Mixed Models** (2 ECTS) Teacher: Cristina Sartori Where: Agripolis When: 30 January - 2 February 2024 (10 am – 1pm) |
| **[X]** | **Experimental design with R: from theory to practice** (1,5 ECTS) Teacher: Roberto Mantovani and Ilaria Piccoli Where: Agripolis When: 5-8 February 2024 (9 am – 12 pm) |
| **[ ]** | **Introduction to GIS**(2 ECTS) Teacher: Roberto Rossi  Where: online (zoom virtual room)  When:21-22 March and11-12 April 2024 (9 am – 1 pm) |
| **[ ]** | **Geomatics and Earth Surface Modelling**(2 ECTS)Teacher: Francesco Pirotti  Where: to be defined  When:13-15 March 2024 |
| **[ ]** | **Spatial statistics**(2 ECTS)Teachers: Marco Borga and Giulia Zuecco  Where: online (to be confirmed) When:21-22 May 2024 |
| **[ ]** | **Spatial statistics in socio-economic research**(2 ECTS)Teachers: Francesco Pagliacci  Where: Agripolis  When:14-16 and 21 February 2024 |

***Soft skills: research organization and communication (please select 3 courses)***

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| **[ ]** | **The role of the Principal Investigator** (1 ECTS)  Teacher: Giancarlo Renella Where: Agripolis When: 23 January 2024 (9 am – 1 pm) |
| **[ ]** | **Introduction to your entrepreneurial post-doc life** (0,3 ECTS) Teachers: Alessandro Leonardi  Where: Agripolis When: 28 November 2023 (4- 6 pm) |
| **[ X ]** | **Scientific Writing in English** (4 ECTS) Teacher: Mark E. Olson Where: to be defined When: 3-7 June 2024 |
| **[ ]** | **How to prepare and present a scientific paper** (1,5 ECTS) Teachers: Severino Segato and Davide Pettenella Where: to be defined When: 6-7-8 February 2024 (2-6 pm) |
| **[ ]** | **Dissemination of science: contents and tools** (1,5 ECTS)   Teacher: Massimo Polidoro  Where: to be defined When: 5-6 December 2023 |
| **[ ]** | **Exploring humans: from individual to collective data collection tools and techniques** (3 ECTS) Teachers: L. Secco, R. Cassini, R. Da Re, E. Pisani, A. Moriggi  Where: to be defined When: 7-8 and 11 March 2024 |
| **[ ]** | **Ethics in writing and reviewing** (0,5 ECTS)   Teacher: Marco Borga Where: TESAF council ROOM When: 28 May 2024 (9-11 am) |
| **[ ]** | **Media training** (0,5 ECTS)   Teacher: K. Leech Where: to be defined  When: 12 March 2024 |
| **[ ]** | **The evaluation of research output** (1 ECTS)   Teacher: Leonardo Cei Where: Agripolis  When: 26 January 2024 (9 am–1 pm + 2–4 pm) |

***OTHER ACTIVITIES*** *(the ECTS reported are referred to other PhD Courses)*

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| **[ ]** | **Research integrity: pills of ethics before spritz break (4 events - 1.5 h)** (no ECTS) Organizers: Mary Giantin, Andrea Squartini  Where: to be defined  When: 23 Oct and 27 Nov 2023, 29 Jan 2024 (5-6 pm) |
| **[ ]** | **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 |
| **[ X ]** | **Health and Safety at work**(no ECTS) Where: on-line  When: at the PhD student's choice |
| **[ X ]** | **Welcome day**(No ECTS) Organized by: PhD Coordinators  When: 6 October 2023 |
| **[ X ]** | **Welcome to DAFNAE**(No ECTS) Organized by: PhD Coordinators  When: 9 October 2023 |
| **[ X ]** | **Welcome to Research**(No ECTS) Teacher: Nicola Bertin  Where: Agripolis When: 15 November 2023 + November 2024 (to be confirmed) (3 pm - 6 pm) |
| **[ ]** | **Climate change and forests** (1,5 ECTS) Teachers: M. Carrer, D. Castagneri & A. Prendin Where: Agripolis  When: 18-19 March 2024 |
| **[ ]** | **THE AI ACCELERATION: Opportunities and Challenges of Large Language Models & Foundation Models for Academic Research and Education (0,3 ECTS)**  Teachers: C. Furlanello  Where: Agripolis (to be confirmed)  When: 23 April 2024 (to be confirmed) |

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 when you are abroad.

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***Seminars:***

In addition, the PhD student must attend at least **4 seminars** which will account for **1 ECTS**. The list of seminars must be reported in the periodic reports due at the end of each year.

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