

TRAINING PROJECT

PHD ENVIRONMENTAL AND ENERGY ENGINEERING SCIENCE

The Teaching Board approves the training programme for each doctoral student.

The doctoral student's training programme consists of:

a) the development, under the guidance of the Supervisor, of an individual research programme relating to a specific subject area among those on which the Course focuses. The disciplinary areas of interest for the PhD programme involve areas of expertise such as: Eco-sustainable plants and processes for energy production; Materials for energy and/or environmental applications; Catalysis science and technology; Energy transport, conversion, storage and distribution systems; Process, structural and environmental safety; Chemical technologies and processes for the environment and energy; Transport of matter, momentum and energy; Cross-sector safety for disaster risk reduction and resilience. The PhD programme therefore has a distinctly multidisciplinary focus, bringing together in a single programme a wide range of topics related to the environment and energy that have a significant impact on the local area (e.g. risk and resilience at regional level, waste and pollutant treatment at national level). Another distinctive feature of the PhD programme is the strong interaction that is pursued and guaranteed between process engineering (energy, environmental, chemical and materials) and basic sciences (physics and continuum mechanics in particular).

b) attendance of doctoral-level teaching activities complementary to research, worth no less than 20 credits. The recognition of credits, which can be acquired by attending courses and other training activities, is carried out by the Doctoral Board, which authorises attendance and assesses the results. Teaching activities, which may also be organised jointly between several courses, also include training activities aimed at supporting research and providing tools to shape the professional identity of future PhD graduates.

Energy and Environmental Engineering Sciences requires the acquisition of at least 20 credits, broken down as follows:

At least 15 CFU	<p>By attending (and passing the final examinations) specialist courses in the relevant area and discipline, chosen from those scheduled annually by the Doctoral Board. The doctoral programme study guide highlights the courses scheduled for the academic year, indicating the credits awarded. The courses offered as part of the PhD programme, the relevant programmes with an indication of the credits awarded and the final exams, which may vary from course to course, are also available each year on the PhD programme website at the following link: https://phd.diegm.uniud.it/eees-phd-activities</p> <p>By attending (and passing any final exams) specialist courses in the relevant area and discipline organised by other universities and/or research institutions and/or companies. The Doctoral Board assesses the suitability of these activities in relation to the student's training and research objectives and determines the number of credits to be awarded. The programme also participates in two "virtual doctoral schools" initiatives (organised respectively by PhD Net in Industrial System Engineering and the Italian Association of Fluid Machinery and Systems for Energy and the Environment - AIMSEA), certifying the acquisition of credits for courses taught (in person or online) by university lecturers within these schools.</p> <p>By attending advanced training seminars (up to 2 hours, 0.25 credits) offered by the PhD programme in the relevant curricula and disciplines. Seminars are scheduled on a monthly basis and students are informed of the seminar times and programme by email and via the "news" section of the website, available</p>
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	<p>at the following link: https://phd.diegm.uniud.it/ees-phd-news/</p> <p>Participation in weekly courses and workshops (up to 4 credits) organised by the University of Udine or other universities and institutions (e.g. CISM) and announced by email or on the website.</p> <p>Participation as a speaker or auditor in conferences that are in line with the student's research project (1 credit per conference day + 1 additional credit for any presentation by the PhD student) and which will be identified by the Board, also on the recommendation of the supervisors of the PhD student's training project.</p> <p>Summary of credits awarded by type of activity organised by Doctoral Board:</p> <ul style="list-style-type: none"> • 6-8 hour courses offered for the PhD programme with assessment (up to 1 credit) • 1-2 hour seminars (up to 0.25 credits) • Weekly courses and workshops/summer schools (up to 4 credits) • One-day courses and conferences (up to 1 credit) • Conferences in which the doctoral student participates as a speaker or listener (1 credit per conference day + 1 credit for the presentation, up to a maximum of 4 credits) <p>The activities planned for the course will be made available on the course website, indicating how to acquire credits (attendance, final exam, etc.).</p>
At least 5 CFU	<p>By attending (and passing the final assessments, where applicable) cross-disciplinary courses and/or seminars, chosen from the transversal training activities annually organized by the University in the areas of mobility, research, career development, enterprise, communication, digital, cognitive and interpersonal. The activities organized by the University will be made available on the dedicated website, indicating the methods for obtaining CFU (attendance, final test, etc.).</p> <p>Link: https://www.uniud.it/it/ricerca/bacheca-ricercatori/iniziativa-ricerca</p> <p>By attending (and passing the final assessments, where applicable) courses and/or seminars and/or conferences organized by the University. The Doctoral Board evaluates the suitability of these activities with respect to the student's training and research objectives and determines the number of credits to be awarded.</p> <p>By attending (and passing the final assessments, where applicable) transversal courses organized by other universities and/or research institutions and/or companies. The Doctoral Board evaluates the suitability of these activities with respect to the student's training and research objectives and determines the number of credits to be awarded.</p>
5 CFU	<p>With regard to attendance of the Academic English (5 CFU) course, the student is exempt if they already hold a valid English language certification at level C1 or higher.</p>