

6-10 July 2026 (in-person) + 13-14 July 2026 (online)

Department of Civil Engineering, University
of Beira Interior, Covilhã, Portugal



FORMAT
Hybrid



CREDITS
3 ECTS



PLACES
30



Why this BIP matters

The CE&E; UNITA Blended Intensive Programme (BIP) "Water and Wastewater Reuse Solutions for Small Communities (ReUseWater)" addresses one of the main environmental and societal challenges of the coming decades: how to provide safe, affordable and sustainable water and sanitation services in small, rural, peri-urban and isolated communities. The programme focuses on decentralised and nature-based solutions for drinking water treatment, wastewater treatment, stormwater management and water reuse, with particular attention to resilience, circular economy and climate adaptation. Through lectures, case studies, technical sessions and collaborative group work, participants will explore how to select, design and evaluate context-appropriate solutions for small communities. The BIP combines an international and interdisciplinary perspective with practical problem solving, enabling students to engage with real-world challenges and exchange experiences across different countries and institutional contexts.



What you will explore

1. Water challenges in small communities.
2. Drinking water solutions for small communities.
3. Decentralised wastewater treatment.
4. Nature-based solutions and reuse.
5. Sludge and residuals management.
6. Case studies and integrated design.

4. Nature-based solutions and reuse

Constructed wetlands, soil-based systems, evapotranspiration basins, ponds, green filters, reuse for irrigation and non-potable uses, health and environmental safety.



Why join ?

- Learn from an international network UNITA universities.
- Explore decentralised and nature-based solutions with real-world relevance.
- Work in mixed international teams on case-study-based challenges.
- Develop practical, sustainability-oriented skills in water reuse.



Learning experience

The BIP combines expert lectures, real case studies, technical visits and laboratory demonstrations, collaborative teamwork in international groups, and a final challenge in which participants develop and present a reuse solution for a small community.

Assessment will be based on participation in group work, contribution to the case study, and the final presentation or poster.



Target participants

- Advanced undergraduate students, master's and doctoral students in environmental engineering, civil engineering, water engineering, sanitary engineering, environmental sciences, environmental chemistry, economy and related areas.
- Intermediate level of English (B1/B2 CEFR).



How to reach the event venue at UBI

40°16'42.5" N, 7°30'42.2" W

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Key Takeaways

- International teamwork and intercultural exchange.
- Case-study proposal for a small-community reuse solution.
- Final presentation of the proposed solution.
- Certificate and 3 ECTS upon successful completion.