



Direzione Ricerca,
Innovazione e
Internazionalizzazione

**UNIVERSITÀ
DI TORINO**

ID

VP_028_CHIM_SSST

Visiting Professor Program Academic Year 2025/2026

TEACHING COMMITMENT: 18 hours

COURSE TITLE

Reuse of Treated Waste Water: Regulatory Framework, Risk Management and Applications

TEACHING PERIOD

I semester

SCIENTIFIC AREA

Chemistry

LANGUAGE USED TO TEACH

English

COURSE SUMMARY

This course provides an in-depth exploration of water reuse practices, beginning with a detailed analysis of European legislative framework. Students will learn about opportunities and challenges of water reuse within the integrated water management cycle. Special emphasis will be placed on risk management aspects, with an overview of risk assessment methodologies and discussion of various case studies showcasing its application.

LEARNING OBJECTIVES

Gain an understanding of how water reuse can address water scarcity and stress across various sectors, including agriculture, domestic and industrial use, groundwater replenishment, recreational, and civil applications.

Learn about the roles and responsibilities of key stakeholders involved in water reuse systems, such as water utilities, regulatory authorities, policymakers, water users, and the general public.

Identify the main drivers and barriers, as well as the challenges and opportunities, associated with water reuse practices.

Understand the regulatory framework governing water reuse and the essential elements of risk management plans for water reuse systems.

OTHER ACTIVITIES BESIDE THE COURSE

VISITING PROFESSOR PROFILE

The Visiting Professor candidate for this course should meet the following requirements:

- Ph.D. in environmental field
- Industrial and accademic experience in wastewater treatment
- Scientific and technical expertise related to the implementation of the Water Reuse Regulation 741/2020
- Knowledge of guidelines on risk management for water reuse in agricultural irrigation
- Knowledge of case studies concerning water reuse in the EU for agricultural irrigation, urban and landscape, and industrial reuse.

CONTACT REFERENT

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