

**Course offered by the PhD program
in Civil, Chemical and Environmental Engineering
a.y. 2025/2026 (41° cycle)
(open to students of other doctoral schools)**

1. Title

Catalysts and Adsorbents

2. Course Objectives and Description

The course, held in English, describes the main families of catalysts and adsorbents applied in industrial and environmental chemistry and the nature of their behavior. Insight will be provided on materials properties, technologies and interactions at molecular level, with special focus on organo-inorganic composite materials.

3. Course Organization

The course consists of classroom lessons.

4. Teacher

The course teachers will be Prof. Gabriella Garbarino (9 hours) and Prof. Elisabetta Finocchio (6 hours).

5. Duration and credits

The course (15 hours) will consist of 5 lessons, 3 hours each, for a total of 3 credits.

6. Activation mode and teaching period

The course will be held during the period January-February 2026. Please contact the teachers: Gabriella Garbarino, Gabriella.Garbarino@unige.it, Elisabetta Finocchio, Elisabetta.Finocchio@unige.it

7. Final exam

Course participants will take an oral exam, by appointment with the teachers. The exam will be focused on a discussion on the topics covered during the course.