

**Course offered for the PhD program
in Civil, Chemical and Environmental Engineering
a.y. 2023/2024 (XXXIX cycle)**

(course is open for participation of students from other PhD cycles or programs)

1. Title

Molten carbonate fuel cells for energy transition

2. Course Description

The course aims at providing notions to the PhD students on Molten Carbonate Fuel Cells (MCFC) and their applications.

The course will include the following topics related to MCFC:

- state of the art
- thermodynamics and kinetics fundamentals
- system integration and process applications
- modelling approaches
- laboratory experience

3. Course Organization

The course will consist of classroom and laboratory lessons.

4. Teacher

The course teacher will be Prof. Barbara Bosio.

5. Duration and credits

The course (15 hours) will consist of 3 classroom lessons and 2 laboratory lessons for a total of 3 credits.

6. Activation mode and teaching period

The course will be held if at least one student will be registered by simple contact with the teacher by email. The course will be held during the period May-June 2024. The exact dates of the lessons will be confirmed by February 2024.

7. Deadline for registration

Registration to the course must be made before March 30, 2024. Students are requested to inform the teacher by e-mail (barbara.bosio@unige.it) about their registration.

8. Final exam

The final exam will consist in an interview on the topics covered by the course. The students are requested to contact the teacher by email to establish the date of the exam.