

**Course offered for the PhD program
in Civil, Chemical and Environmental Engineering
Curriculum in Chemical, Material and Process Engineering – a.a. 2022/2023**

(possibility of participation for students in other PhD cycles or other PhD courses)

1. Title

Climate change and EU-ETS directive

2. Course Description

The aim of the course is to give a general overview about climate change and Greenhouse gases emissions (GHG). The application of the Kyoto Protocol mechanism, the Paris Agreement and the EU Emission Trading System (2003/87/CE) will be discussed. Calculation and monitoring methodologies of the greenhouse gases for production plants under the CE directive application will be analysed. Moreover, an annual communication of GHG emissions according to EU-ETS Directive (EU-ETS) will be introduced as case study and the related carbon credits market.

3. Course Organization

The course is based on frontal lessons or on online lessons depending on the situation.

4. Teacher

Prof. Michela Gallo

5. Duration and credits

The course lasts 15 hours of frontal or online lessons (3 credits).

6. Activation mode and teaching period

The course will start in case of 2 registrations at least and it be held during the II semester, between April and May 2023

7. Deadline for registration

The students have to inform the teacher about the registration by 28th February 2023, by sending an e-mail to: michela.gallo@unige.it.

8. Final exam

The students have to sit a written text about all the topics discussed in the course.