



A.D. 1308

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DIPARTIMENTO  
DI INGEGNERIA  
CIVILE E AMBIENTALE

# CIVIL AND ENVIRONMENTAL ENGINEERING

## DOCTORAL PROGRAM 2023-2024



Daniela Pezzolla is Associate Professor in Agricultural Chemistry at the Department of Civil and Environmental Engineering of the University of Perugia. She works on sustainable valorization of organic wastes to obtain high quality fertilizers and plastics influences on soil chemical parameters.



Nicolò Montegiove is a researcher at the Department of Civil and Environmental Engineering of the University of Perugia. He was granted a Ph.D. in Biotechnology at the University of Perugia and his research is now focused on the waste biomass valorization.

## ENVIRONMENTAL IMPACT OF PLASTICS AND BIOPLASTICS

### Instructors

Daniela Pezzolla, Ph.D.,

Associate Professor, University of Perugia

Nicolò Montegiove, Ph.D.,

Researcher, University of Perugia

### Course Description

The course aims to provide knowledge to evaluate the environmental impacts of plastics and bioplastics, giving particular importance to the degradation processes of bioplastics during the biological treatment of organic waste.

The topics covered include:

- environmental pollution of plastics and bioplastics;
- biological processes for waste treatment and the fate of bioplastics;
- analytical methods to identify and quantify different types of plastics and microplastics in organic fertilizers and soil;
- recovery and reuse of plastics.

### Course Schedule (12 hours, 2 CFU)

Day 1, June 18th, 14:30-17:30 ROOM 13

Day 2, June 20th, 14:30-17:30 ROOM 13

Day 3, June 25th, 14:30-17:30 ROOM 13

Day 4, June 27th, 14:30-17:30 ROOM 13

### Location

Campus of Engineering of University of Perugia  
Via G. Duranti, 93 - Perugia

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