



**POLITECNICO
DI TORINO**

Dipartimento di Ingegneria
dell'Ambiente, del Territorio
e delle Infrastrutture



16-17 April 2018
Meeting Room DIATI 2 (4th floor)

WORKSHOP

“Sustainability assessment of water resources, wastewater and solid waste management systems”

*organized in the framework of ERASMUS + agreement between Politecnico di Torino and
“Gheorghe Asachi” Technical University of Iasi, Romania
Speakers from the Department of Environmental Engineering and Management*

16 April 2018 (9 am - 1 pm)

1. Life cycle assessment applications in water resources management

Contents (2 hrs):

- Water Resources Management
- Life Cycle Assessment

Case studies presentation (2hrs):

- Life cycle assessment applications in urban water systems
- Life cycle assessment applications in wastewater treatment systems



Lecturer:

Dr. eng. George Barjoveanu

16 April 2018 (2 pm - 6 pm)

2. Solid waste management systems and associated environmental impacts

Contents (2 hrs):

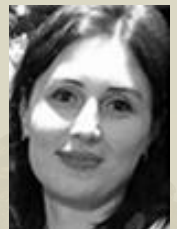
- Solid waste definitions and classifications
- Solid waste and circular economy, waste hierarchy
- Key waste streams in European Union
- Environmental impact of solid waste management systems

Application (2 hrs):

- How to design a sustainable management system for construction and demolition (C&D) and green waste?

Requirements: Recycling and reusing Hardscapes and Landscapes Waste Cost Calculator; open source excel

file available at: www.usepa.com



Lecturer:

Dr. eng. Daniela Gavrilescu

17 April 2018 (9 am - 1 pm)

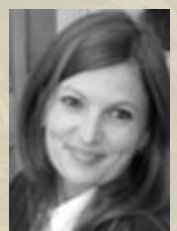
3. Sustainability assessment indicators

Contents (2hrs):

- Sustainability assessment instruments
- Wastewater treatment processes.

Applications (2h):

- ECAM tool applications in wastewater processes assessment.



Lecturer:

Dr. eng. Daniela Fighir

REGISTRATION:

The workshop is open to **PhD students and research fellows**

Max no. of participants: 16

Participants are required to bring their laptop for practical activities foreseen for each module.

Please apply writing an email to **Prof. Silvia Fiore**, DIATI, not later than 12 April 2018: silvia.fiore@polito.it