



Visiting Professor Program Academic Year 2023/2024

TEACHING COMMITMENT: 12 hours

COURSE TITLE

Green Analytical Chemistry

TEACHING PERIOD

1st term

SCIENTIFIC AREA

Analytical chemistry

LANGUAGE USED TO TEACH

English

COURSE SUMMARY

The stages of an analytical procedure will be deeply discussed with special attention to their environmental sustainability; the best environmental sustainable approaches will be evidenced and the metrics for their evaluation will be discussed

LEARNING OBJECTIVES

To know the fundamental principles of environmental sustainability of a chemical process and of an analytical process in particular.

To evaluate the goodness of a method of analysis with regard to its performance and its environmental sustainability.

TUTORSHIP ACTIVITIES

N/A

LAB ACTIVITIES

N/A

OTHER ACTIVITIES BESIDES THE COURSE

A seminar addressed to research fellows

ADDITIONAL COURSE**COURSE TITLE**

Analytical Strategies for Sample Preparation

TEACHING PERIOD

1st term

SCIENTIFIC AREA

Analytical chemistry

LANGUAGE USED TO TEACH

English

COURSE SUMMARY

Deepening of the sample pretreatment procedures with particular attention to environmental sustainability in term of chemical reagents and needed energy..

LEARNING OBJECTIVES

Choose the pretreatment procedure in function of the nature of the sample and of the environmental impact.

TUTORSHIP ACTIVITIES

N/D

LAB ACTIVITIES

N/D

OTHER ACTIVITIES BESIDES THE COURSE

N/D

VISITING PROFESSOR PROFILE

The Visiting Professor's profile should include the following expertise related to Green Analytical Chemistry:

- advanced methods for sample pretreatment

environmental sustainable analytical procedures and related metrics;
- automation and miniaturization of analytical procedures;
- development of instruments for in situ measurements.

FURTHER INFORMATION

Lessons and seminars could be held in co-presence with UNITO Professors.

CONTACT REFERENT

Alessandra Bianco Prevot
alessandra.biancoprevot@unito.it