



Towards a Green and Sustainable World

For 3rd year Bachelor students & 1st year Master students
Disciplinary fields : Chemistry & Chemistry with Physics or Geosciences

Dates &
Format

7th of June until the 9th of July 2021
This course will be proposed on an **online format**

About “Towards a Green and Sustainable World” module

Today's environmental challenges are extremely high and of worldwide concern. Indeed, plastic wastes are found in the Mariana Trench as well as at the top of Mount Everest. More generally, the future of our planet is in danger because of the use of toxic products, suspended particles in air, the global warming and of course, the depletion of oil reserves. This module about “Green Chemistry” aims to enable the acquisition of a collective awareness that participants will be able to value as citizens and future chemistry scientists.

Learning
outcomes

- Grasp the 12 principles of green chemistry to put them into practice in the laboratory and in the daily life
- Develop a critical thinking about the present state of affairs and of the benefits brought by green chemistry
- Communicate and exchange ideas dealing with green or sustainable remediation
- Explain and argue about chemical experiments

Evaluation
activities

- Online quizzes
- Written synthesis reports on a given thematic based on autonomous searches and exchanges with the teaching staff
- A short video and oral presentation in front of the peers (group outcome)

Teaching
team

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Didactical activities

This module is divided in two parts **Green Label I & Green Label II**.
All the activities are proposed in an online format through our Moodle platform.

The proposed activities for the first part are :

- Reading and watching autonomously the recommended didactical content : learning clips & articles
- Answering numerous quizzes to self-asses the comprehension of the presented concepts
- Online interaction and discussion through the course's forum

Teaching modalities (7th of June to 4th of July) : Asynchronous and autonomous follow up with 2 online synchronous 30 minutes sessions

For the second part of this module students will be invited to engage on collaborative activities between students (work groups) and teachers involving:

- An initiation to the calculation of the main green metrics
- Cases studies starting from filmed research laboratory experiments and scientific presentations of the context aiming at remediation proposals

Teaching modalities (5th to 9th of July) : Synchronous and online sessions during the last five days of the module.

Equivalence

This module is equivalent to 3 ECTS. At Sorbonne University this module will be recognised as extra-curriculum activities.

*Time engagement : **Green Label I** (around 20 hours) & **Green Label II** (around 40 hours)*

Inscriptions

Application deadline : **21st of May 2021**

If you are interested following this module please contact Dr Bartłomiej Michałowicz:
michalowicz@uw.edu.pl

