

MGT-504

Environmental assessment and reporting

Friot Damien Antoine

Cursus	Sem.	Type
Managmt, dur et tech	MA2	Obl.
Sustainable Construction minor	E	Opt.

Language of teaching	English
Credits	4
Withdrawal Session	Unauthorized Summer
Semester	Spring
Exam	During the semester
Workload	120h
Weeks	14
Hours	3 weekly
Courses	2 weekly
Project	1 weekly
Number of positions	40

Il n'est pas autorisé de se retirer de cette matière après le délai d'inscription.

Summary

Learn how to assess, analyse, report and communicate the environmental impacts of companies, projects and products considering whole value chains, i.e. applying Life Cycle Impact Assessment. State-of-the-art standards, methodologies, databases and indicators will be considered.

Content

- Understand the interest and challenges of assessing products and services, companies, and value chains over their life cycle.
- Learn about the existing reporting standards, tools, databases and indicators. And which ones to use.
- Quantify the impacts and generate meaningful Key Performance Indicators (KPI) for a product/service or a company considering its supply chain.
- Develop a critical perspective on published environmental assessments.

The class will be a combination of:

- Theory lectures
- Case studies
- Practical exercises to train critical thinking and computation skills

Learning Outcomes

By the end of the course, the student must be able to:

- Assess / Evaluate the environmental impacts of companies, projects and products considering whole value chains
- Plan environmental studies including data collection and reporting
- Analyze existing studies from a critical perspective

Transversal skills

- Communicate effectively with professionals from other disciplines.
- Access and evaluate appropriate sources of information.

- Take responsibility for environmental impacts of her/ his actions and decisions.

Assessment methods

Grading will be based on 3 components:

- Individual quantitative assignment: 20%
- Class participation: 20%
- Group assignment (report and presentation): 60%

Resources

Bibliography

Documentation is distributed on the Moodle platform during the semester.

Notes/Handbook

Documentation is distributed on the Moodle platform during the semester.

Moodle Link

- <https://go.epfl.ch/MGT-504>