

Course Specifications

Valid as from the academic year 2024-2025

Legal Framework for Environmental Technology (1002685)

Course size (nominal values; actual values may depend on programme)					
Credits 6.0	Study time 180 h				
Course offerings in ac	ademic year 2024-2025				
A (semester 1)	Dutch	Gent			
Lecturers in academic	year 2024-2025				
Deweerdt, Hildegard			LA27	lecturer-in-charge	
Wiels, Danny			LA27	co-lecturer	
Offered in the following programmes in 2024-2025				crdts	offering
Master of Science in Bioscience Engineering: Environmental Technology				6	А
Master of Science in Bioscience Engineering: Land, Water and Climate				6	А
Master of Science in Economics				6	А
Master of Science in Economics (Double Degree)				6	А

Teaching languages

Dutch

Keywords

Environmental management, Environmental quality standards, BAT, Environmental permit, Environmental conditions, Application of statutory provisions, Environmental law, Stakeholders, Sustainable Development Objectives SDGs, ESG legislation, Materials decree, European EURAL Waste Code, Soil decontamination project, Classified Installations or Activities

Position of the course

The purpose of this course is to give an introduction to the legal framework within which the environmental technologist can operate, with a view to exercising the function of environmental expert or environmental consultant.

Contents

A. Theory

1. Introduction

1.1. Expectations and objectives of the course

- 1.2. Practical organisation of lectures, plenary exercises and company visits
- 1.3. Course material and teachers

2. Policy framework

2.1. Instruments of the environmental policy

- 2.2. Policy plans
- 2.3. Indicators

2.4. Megatrends and system solutions

3. Basics of the Flemish environmental law - International - Supranational

European level

3.1. Brundlandt, basis of sustainable development

- 3.2. United Nations Sustainable Development Goals (SDG's)
- 3.3. International and European institutions and treaties
- 3.4. Environment Action Programme of the European Commission
- 3.5. European legislative procedures
- 3.6. Consultation and interpretation of legal provisions

4. Organisation of the Department of Environment in Flanders (and Belgium)

4.1. Tasks and distribution of competences

- 4.2. Regional level Flanders
- 4.3. Federal level

4.4. Provincial and municipal level

5. Environmental quality standards and Best Available Techniques

5.1. Basic principles Environmental Quality Standards

- 5.2. Most common Environmental Quality Standards
- 5.3. Best Available Techniques in Flanders (BAT) and Europe (BREF)
- 5.4. BAT, BREF and IBBT study reports from key industrial sectors
- 5.5. Sectoral reference documents (SRDs) on best environmental practices,
- sectoral environmental performance indicators and benchmarks of excellence
- 5.6. Analysis of case studies from various sectors

6. Flemish environmental law

6.1. Guidance on reading legal texts

- 6.2. Flemish legislative procedure
- 6.3. Exercises with search engine "Navigator Emis Vito"

7. The environmental permit

7.1. Framework and principles

- 7.2. The competent authority licensing authority
- 7.3. Classified Establishments or Activities (IIOA)
- 7.4. Procedures
- 7.4.1. Simply reporting
- 7.4.2. Usual procedure
- 7.4.3. Simplified procedure
- 7.5. Review procedures

7.6. Composition and consultation of permits via the digital Environmental Desk

8. Link with spatial planning and urban development

8.1. Spatial Implementation Plan - Geographical Plan

8.2. Link with IIOA classification list

9. Environmental conditions

9.1. General environmental conditions

- 9.2. Sectoral environmental conditions
- 9.3. Special environmental conditions

10. Air

10.1. Main legal provisions air (e.g. odour nuisance)

11. Water

11.1. Main legal provisions water (e.g. water pollution)

12. Soil

12.1. Flemish Regulations on soil remediation and soil protection

12.2. Orientation Research

12.3. Descriptive Soil Testing

12.4. Soil remediation projects and dealing with calamities

13. Materials and Waste

13.1. Flemish regulations for the sustainable management of material cycles and

waste materials

13.2. EURAL waste code and waste levy

13.3. Extended producer responsibility

13.4. Handling hazardous waste streams (e.g. labelling of hazardous products and asbestos)

14. Supervisions, control, enforcement, and liability

14.1. Supervision, Control, Enforcement and Liability

- 14.2. Enforcement of administrative law, criminal law and private law
- 14.3. Handling a PV after a visit environmental inspection

B. Practice - Exercises

- Search for classified categories IIOA classification list
- Find and interpret general and sectoral conditions
- Search for environmental quality standards

Initial competences

Basic knowledge of Environmental Technology is required. No specific prior knowledge of Environmental Policy and Law is required

Final competences

- 1 Students know which competent authorities they can call upon for specific environmental problems.
- 2 Students may search for and interpret relevant legal provisions.
- 3 *Students are familiar with the main international agreements on sustainable development.*
- 4 Students apply the principles of the environmental disturbance chain and system solutions in their approach to environmental problems.
- 5 *Students are familiar with the subject jargon and are able to communicate it easily.*

Conditions for credit contract

Access to this course unit via a credit contract is determined after successful competences assessment

Conditions for exam contract

This course unit cannot be taken via an exam contract

Teaching methods

Seminar, Lecture

Extra information on the teaching methods

Lecture, seminar: guided and PC classroom exercises.

Study material

Type: Slides

Name: Juridical framework of environmental technology Indicative price: Free or paid by faculty Optional: no Language : Dutch Number of Slides : 100 Oldest Usable Edition : slides of the current academic year Available on Ufora : Yes Online Available : No Available in the Library : No Available through Student Association : No

References

EMIS Vito Navigator Milieuwetgeving – free for students; De ESG-plicht in de praktijk - Handleiding voor het opzetten van een duurzaamheidsverslag (H. Deweerdt, Kluwer; free for students).

Course content-related study coaching

The students can contact the teachers with their questions, by appointment.

Assessment moments

end-of-term and continuous assessment

Examination methods in case of periodic assessment during the first examination period

Written assessment with multiple-choice questions, Written assessment with open-ended questions

Examination methods in case of periodic assessment during the second examination period

Written assessment with multiple-choice questions, Written assessment with open-ended questions

Examination methods in case of permanent assessment

Written assessment

Possibilities of retake in case of permanent assessment

examination during the second examination period is possible in modified form

Extra information on the examination methods

Calculation of the examination mark

90% period aligned evaluation about the theory, 10% non-period aligned evaluation (online test). Students who eschew period aligned and/or non-period aligned evaluations for this course unit may be failed by the examiner.