

IMIMET

International Master of Science in Environmental Technology and Engineering

Campus: UGent

Language(s) of instruction: English (Programme sheet as of: 2019)

Programme version 2 Valid as from the academic year 2020-2021 (VOORSTEL)

1 General Courses - IMETEBalg 60.0 credits

Subscribe to 60 credit units from 3 modules from the following list.

Trajectory to follow:

- First semester in Prague
- Second semester in Delft
- Third semester in Ghent

1.1 Basic Introductory Courses - University of Chemistry and Technology Prague, CZECH REPUBLIC - IMETEBalgICTPrague 30.0 credits

This part includes environmental technology courses at the introductory level that provide the conceptual basis to specialize in later semesters. They cover environmental biotechnology and remediation technologies for soil, sludge, water, air and waste. Elective project I aims to integrate this knowledge by exposing the students to specific environmental issues, on which they elaborate under guidance. A communication and writing skills course for engineering students is designed to introduce them to written and oral communications in Engineering.

Details are available at <https://www.imete.eu/programme>.

1.2 Specialisation Courses with Focus on Water Treatment - IHE Delft Institute for Water Education - Delft, THE NETHERLANDS - IMETEBalgIHEDelft 15.0 credits

This part proceeds with advanced courses with focus on water treatment. All students take the course Environmental Process Technology, where fundamentals of process technology are covered quantitatively and in detail. In Elective project II students continue working on the problem introduced in the 1st semester at a more advanced level, with a stronger quantitative engineering approach. Communication and writing skills for engineers II focuses on planning a research project. Through an International Field Trip the participants are exposed to different international practices in the design, operation and management of water supply, wastewater, solid waste and urban civil infrastructure networks.

Details are available at <https://www.imete.eu/programme>.

1.3 Specialisation Courses and Engineering Skills - Ghent University, BELGIUM - IMETEBalgUGent 15.0 credits

Nr	Course	CRDT	Ref	MT1	MT2	Session	Contact	Study
1	I002407 Advances & Trends in Environmental Technology [en] Gijs Du Laing -- Department of Green Chemistry and Technology	3.0		2		A:1	30.0	75
2	I002406 Basics of Process Engineering [en] Frederik Ronsse -- Department of Green Chemistry and Technology	3.0		2		A:1	30.0	75
3	I002405 Basics of Control Engineering [en] Eveline Volcke -- Department of Green Chemistry and Technology	3.0		2		A:1	30.0	75
4	I002403 Bioresource Recovery Processes and Engineering [en] Erik Meers -- Department of Green Chemistry and Technology	6.0		2		A:1	60.0	150

2 Elective Courses - IMETEBtrajecten 23.0 credits

Subscribe to 23 credit units from 2 modules from the following list. Subject to approval by the faculty.

Trajectory to follow:

- Second semester in Delft
- Third semester in Ghent

2.1 Elective Tracks IHE Delft Institute for Water Education: Water - IMETEBtrackIHEDelft 15.0 credits

Subscribe to 15 credit units from 1 track from the following list.

The track Ecotechnologies focusses on the management of water quality, including water quality assesment, sustainable management of resources in urban and industrial settings to reduce and prevent environmental burdens, and use of wetlands for water treatment.

The track Advanced wastewater treatment technologies focusses on technological waste water treatment, including design, engineering and modelling of wastewater treatment processes. The students will integrate cleaner production, industrial water management, wastewater treatment processes, and sludge handling and disposal in the design on an industrial waste treatment process for a selected industry.

Details are available at <https://www.imete.eu/programme>.

2.1.1 Track Ecotechnologies - IMETEBt1listIHEDelft 15.0 credits

2.1.2 Track Advanced Wastewater Treatment Technologies - IMETEBt2listIHEDelft 15.0 credits

2.2 Elective Tracks Ghent University: Air or Soil - IMETEBtrackUGent 8.0 credits

Subscribe to 8 credit units from 1 track from the following list.

2.2.1 Track Air - IMETEBt1listUGent 8.0 credits

Nr	Course	CRDT	Ref	MT1	MT2	Session	Contact	Study
1	I002671 Urban and Indoor Air Pollution [en] Christophe Walgraeve -- Department of Green Chemistry and Technology	5.0		2		A:1	50.0	150
2	I000675 Advanced Waste Gas Treatment [en] Kristof Demeestere -- Department of Green Chemistry and Technology	3.0		2		A:1	30.0	75

2.2.2 Track Soil - IMETEBt2listUGent 8.0 credits

Nr	Course	CRDT	Ref	MT1	MT2	Session	Contact	Study
1	I002404 Soil Remediation [en] Filip Tack -- Department of Green Chemistry and Technology	5.0		2		A:1	40.0	150
2	I002775 Pedology [en] Peter Finke -- Department of Environment	3.0		2		B:1	30.0	75

3 Elective Courses - IMETEBkeuze 7.0 credits

Subscribe to 7 credit units from no less than 1 and no more than 2 module(s) from the following list. Subject to approval by the faculty. Upon approval of the programma responsible and IMETE management board

3.1 Elective Courses - Ghent University, BELGIUM - IMETEBkeuzeUGent

Subscribe to no more than 7 credit units from the master programmes at UGent (excl. internships or other integration course units)..

Trajectory to follow:

- Third semester in Ghent

Upon approval of programme responsible and IMETE management board.

3.2 Elective Internship - IHE Delft Institute for Water Education - Delft, THE NETHERLANDS - IMETEBstage 7.0 credits

To be taken in the summer between the first and second year, or in the second year (third or fourth semester), co-ordinated by IHE Delft: not more than 7 credit units for one course unit 'Internship'

3.3 Elective Language Courses - IMETEBlanguage

Subscribe to maximum 4 credit units for language courses at Prague and/or Delft respectively

Trajectory to follow:

- First semester in Prague
- Second semester in Delft

4 Master's Dissertation - IMETEBmasterproef 30.0 credits

Subscribe to course units from the following list.

The Master's Dissertation can be taken at either:

- UNESCO-IHE Institution for Water Education - Delft, THE NETHERLANDS
- University of Chemistry and Technology Prague, CZECH REPUBLIC
- Ghent University, BELGIUM

but can be hosted by one of the associated member institutions.

Nr	Course	CRDT	Ref	MT1	MT2	Session	Contact	Study
1	I001871 Master's Dissertation [en]	30.0		2		A:2	300.0	900