

Study Programme

Academic year 2020-2021

Faculty of Bioscience Engineering

Master of Science in Environmental Science and Technology

Campus: UGent

Language(s) of instruction: English (Programme sheet as of: 2020)

Programme version 1 Valid as from the academic year 2020-2021 (VOORSTEL)

1 General Courses - IMESTEalg

60.0 credits

1.1 Module Environmental sustainability and policy - IMESTEalgESP

Nr	Course		CRDT	Ref MT1 MT2	Session	Contact	Study
1	1002506	Clean Technology [en]	3.0	1	A:1	30.0	90
2	1002585	Sustainability and Environmental Economics [en]	4.0	1	A:2	40.0	120
		Stijn Speelman Department of Agricultural Economics					
3	1002586	Multidisciplinary Analysis of Climate Change [en]	3.0	1	A:2	30.0	90
		Pascal Boeckx Department of Green Chemistry and Technology					
4	1001571	Environmental Legislation [en]	3.0	1	A:1	30.0	75
		Frank Maes Department of European, Public and International Law					

1.2 Module Environmental diagnostics - IMESTEalgED

N	Course		CRDT	Ref MT1 MT2	Session	Contact	Study
1	1002587	Environmental Chemistry and Analysis: Atmospheric Processes [en] Christophe Walgraeve Department of Green Chemistry and Tech	5.0 nology	1	A:1	50.0	150
2	1002588	Environmental Chemistry and Analysis: Water, Soil and Sediment [en] Filip Tack Department of Green Chemistry and Technology	5.0	1	A:1	50.0	150
3	1002606	Environmental Risk Assessment [en] Karel De Schamphelaere Department of Animal Sciences and Ac	5.0 Juatic Ecolo	1 gv	A:1	50.0	150

1.3 Module Environmental technology - IMESTEalgET

Nr	Course		CRDT	Ref MT1 MT2	Session	Contact	Study
1	1002508	Environmental Technology: Water [en]	5.0	1	B:2	50.0	150
		Korneel Rabaey Department of Biotechnology					
2	1002589	Environmental Technology: Soil and Sediment [en]	3.0	1	A:2	30.0	90
		Filip Tack Department of Green Chemistry and Technology					
3	1002590	Environmental Technology: Air [en]	4.0	1	A:2	40.0	120
		Christophe Walgraeve Department of Green Chemistry and Techn	ology				
4	1002591	Environmental Technology: Waste [en]	3.0	1	A:2	30.0	90
		Frederik Ronsse Department of Green Chemistry and Technology					

1.4 Module Applied ecology - IMESTEalgAE

Nr	Course		CRDT	Ref	MT1 MT2	Session	Contact	Study
1	1002504	Applied Freshwater Ecology [en]	3.0		1	A:1	30.0	90
		Peter Goethals Department of Animal Sciences and Aquatic Ecology	/					
2	1002535	Applied Marine Ecology [en]	3.0		1	A:1	30.0	90
		Colin Janssen Department of Animal Sciences and Aquatic Ecology						
3	1002609	Environmental Microbiology [en]	3.0		1	A:1	30.0	90
		Nico Boon Department of Biotechnology						

1.5 Module Environmental research skills - IMESTEalgERS

Nr			CRDT		Session		Study
1	1002593	Introduction to Environmental Modelling and Simulation [en]	3.0	1	A:2	30.0	90
		Ingmar Nopens Department of Data Analysis and Mathematical Mo	delling				
2	1002594	Environmental Research Skills and Experimental Design [en]	5.0	1	A:J	50.0	150
		Gijs Du Laing Department of Green Chemistry and Technology					

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Subscribe to 24 credit units from 1 major from the following list.

2.1 Major Environmental assessment and management of chemicals - IMESTEmajorChemicals

24.0 credits

Subscribe to 24 credit units from the following list.

Nr	Course		CRDT	Ref MT1 MT:	2 Session	Contact	Study	
1	1002595	Emerging Topics and Current Practice in Environmental Risk Assessment [en] Karel De Schamphelaere Department of Animal Sciences and Aqu		2 gy	A:2(2021)	60.0	180	
2	1002596	Environmental Fate and Management of Pesticides [en] Pieter Spanoghe Department of Plants and Crops	6.0	2	A:1	60.0	180	
3	1002597	Urban and Indoor Air Quality [en] Christophe Walgraeve Department of Green Chemistry and Techno	6.0 ology	2	A:2(2021)	60.0	180	
4	1002411	Metals and Metalloids in Environment and Technology [en]	6.0	2	B:1	60.0	180	
2.	2.2 Major Resource recovery technology - IMESTEmajorRecovery 24.0 credits							

Subscribe to 24 credit units from the following list.

Nr	Course		CRDT	Ref MT1 MT2	Session	Contact	Study
1	1000260	Life Cycle Assessment [en] Sophie Huysveld Department of Green Chemistry and Technology	3.0	2	A:1	30.0	75
2	1002598	Physico-Chemical Resource Recovery from Aqueous Waste Streams [en] Arne Verliefde Department of Green Chemistry and Technology	6.0	2	A:1(2021)	60.0	180
3	1002599	Digitalisation for Resource Recovery [en] Ingmar Nopens Department of Data Analysis and Mathematical Mo	6.0	2	A:1	60.0	180
4	1002607	Resource Recovery Technology [en] Ramon Ganigué Department of Biotechnology	5.0	2	B:2	50.0	150
5	1002600	Non-technological Drivers and Challenges of Resource Recovery [en] Stijn Speelman Department of Agricultural Economics	4.0	2	A:2(2021)	40.0	120

2.3 Major Environmental health and technology for developing economies - IMESTEmajorDeveloping

24.0 credits

Subscribe to 24 credit units from the following list.

Nr	Course		CRDT	Ref MT1 MT2	Session	Contact	Study
1	1002601	Basic Concepts in Environmental Health [en] Stefaan De Henauw Department of Public Health and Primary Care	4.0	2	A:1(2021)	40.0	120
2	1002608	Decentralized Sanitation and Treatment Technologies for Developing Economies [en] Korneel Rabaey Department of Biotechnology	6.0	2	A:1(2021)	60.0	180
3	1002607	Resource Recovery Technology [en] Ramon Ganigué Department of Biotechnology	5.0	2	B:2	50.0	150
4	1001848	Water Quality Management [en]	4.0	2	A:2	45.0	105
5	1001584	Rural Project Management [en]	5.0	2	A:2	60.0	135
2.4	4 Major	Urban environmental management - IMESTEmajorU	Irban		24.0	credits	

Subscribe to 24 credit units from the following list.

Nr	Course		CRDT	Ref MT1 MT2	Session	Contact	Study
1	1001568	Urban Ecology and Management [en] Martin Hermy Catholic University of Leuven	3.0	2	B:1	30.0	90
2	1002597	Urban and Indoor Air Quality [en] Christophe Walgraeve Department of Green Chemistry and Techno	6.0 ology	2	A:2(2021)	60.0	180
3	C003534	Urban Mobility and Logistics [en] Frank Witlox Department of Geography	3.0	2	B:1	30.0	90
4	1001439	Environmental Noise [en] Timothy Van Renterghem Department of Information Technology	4.0	2	B:1	40.0	120
5	E084571	Urban Analysis and Design [en] Michiel Dehaene Department of Architecture and Urban Planning	3.0	2	B:1	30.0	90
6	1001542	Environmental Impact Assessment: Integrated Project [en] Sophie Huysveld Department of Green Chemistry and Technology	5.0	2	A:2(2021)	60.0	135

2.5 Major Environmental health and technology for marine systems - IMESTEmajorMarine

24.0 credits

Subscribe to 24 credit units from the following list.

Nr Course	CRDT R	Ref MT1 MT2	Session	Contact Study

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1	1002603	Blue Growth: An Interdisciplinary Approach to Research and Innovation in the Marine Environment [en] Colin Janssen Department of Animal Sciences and Aquatic Ecology	3.0	2	A:1(2021)	30.0	90
2	C003870	Marine Policy and Governance [en]	3.0	2	A:1	30.0	75
		Andrew Serdy Department of European, Public and International Law					
3	1000928	Aquaculture Environmental Impact [en]	3.0	2	A:2	30.0	90
		Peter Bossier Department of Animal Sciences and Aquatic Ecology					
4	1002604	Oceans and Human Health [en]	3.0	2	A:1	30.0	90
		Jana Asselman Department of Animal Sciences and Aquatic Ecology					
5	E054820	Inland Waterways and Locks [nl, en]	4.0	2	C:2, D:2	40.0	120
		Tom De Mulder Department of Civil Engineering					
6	C002642	Dredging and Offshore Constructions [en]	3.0	2	A:2	30.0	75
		Adam Bezuijen Department of Civil Engineering					
7	1002605	Seminars and Company Visits [en]	5.0	2	A:J(2021)	50.0	150
		Colin Janssen Department of Animal Sciences and Aquatic Ecology			, ,		
3	Elective	Courses - IMESTEkeuze			6.0	credits	

Subscribe to 6 credit units from no less than 1 and no more than 3 modules from the following list.

3.1 Courses from the Majors - IMESTEmajorskeuze

Subscribe to no more than 6 credit units from the majors, with the exception of the courses taken within the chosen major.

3.2 Internship - IMESTEStage

Ni	Course		CRDT Re	f MT1 MT2	Session	Contact	Study
1	1001884	Internship [en]	6.0	2	A:J(2021)	60.0	150
		Karel De Schamphelaere Department of Animal Sciences and	Aguatic Ecology				

3.3 Ghent University Elective Courses in English - IMESTEUnivbredekv

Subscribe to no more than 6 credit units from the Ghent University elective courses in English ($\underline{https://studiegids.ugent.be/current/EN/FACULTY/I/UBKV/IUKEUZ/IUKEUZ.html$)

4 Master's Dissertation - IMESTEMasterproef	aster's Dissertation - IMES I Emasterproet			30.0 credits	
Nr Course	CRDT	Ref MT1 MT2	Session	Contact Study	
1 I001508 Master's Dissertation [en]	30.0	2	A:J	300.0 900	

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