

Study Programme

Academic year 2021-2022

Faculty of Bioscience Engineering

Bachelor of Science in Bioscience Engineering -- Environmental Technology

Language of instruction: Dutch

Programme version 5

1 Genera	al Courses			150	credits
Nr Course I 1002416	Calculus Jan Baetens Department of Data Analysis and Mathematical Modelling	CRDT 6	Ref MT1	Session A:1	Study 180
2 1002417	Mechanics, Vibrations and Waves Dirk Poelman Department of Solid State Sciences	5	1	A:1	150
3 I002418	General and Inorganic Chemistry: Structure Rik Van Deun Department of Chemistry	5	1	A:1	150
1 1002419	Cellular and Molecular Biology Godelieve Gheysen Department of Biotechnology	4	1	A:1	120
5 1002420	Applied Botany: Morphology and Diversity Pieter De Frenne Department of Environment	5	1	A:1	150
6 1002421	Scientific Computing Jan Verwaeren Department of Data Analysis and Mathematical Modelling	5	1	A:J	150
7 1002422	Linear Algebra Willem Waegeman Department of Data Analysis and Mathematical Modelling	5	1	A:2	150
3 1002423	Thermodynamic Processes Frederik Ronsse Department of Green Chemistry and Technology	5	1	A:2	150
9 1002424	General and Inorganic Chemistry: Reactivity and Analysis Rik Van Deun Department of Chemistry	6	1	A:2	180
10 1002425	Applied Zoology: Invertebrates Luc Tirry Department of Plants and Crops	5	1	A:2	150
11 1002426	Earth Sciences Marc Van Meirvenne Department of Environment	5	1	A:2	150
2 1002427	Ecology Kathy Steppe Department of Plants and Crops	4	1	A:2	120
13 1002428	Differential Equations Elena Torfs Department of Data Analysis and Mathematical Modelling	5	2	A:1	150
14 1002429	Electricity, Magnetism and Sensors Toon Verstraelen Department of Physics and Astronomy	5	2	A:1	150
15 1002430	Applied Zoology: Vertebrates Luc Tirry Department of Plants and Crops	4	2	A:1	120
16 1002431	Applied Botany: Physiology Dirk Reheul Department of Plants and Crops	5	2	A:1	150
7 1002432	Organic Chemistry: Structure Matthias D'hooghe Department of Green Chemistry and Technology Ricchemistry	3	2	A:1	90
8 1002433	Biochemistry Els Van Damme Department of Biotechnology Sustainable Development in Broduction and Consumption Systems	4	2	A:1	120
19 1002434	Sustainable Development in Production and Consumption Systems Frank Nevens Department of Plants and Crops Probabilistic Models	5	2	A:2 A:2	150
20 1002435	Bernard De Baets Department of Data Analysis and Mathematical Modelling	5	2		150
21 1002436 06-07-2025	Microbiology Wim Soetaert Department of Biotechnology	5	2	A:2	150 p

06-07-2025 14:57 p 1

22 1002437	Organic Chemistry: Reactivity Matthias D'hooghe Department of Green Chemistry and Technology	7	2	A:2	210
23 1002438	Fluid Mechanics Niko Verhoest Department of Environment	3	2	A:2	90
24 1002439	Environmental Sciences Marc Van Meirvenne Department of Environment	4	2	A:1	120
25 1002440	Data Science Jan Verwaeren Department of Data Analysis and Mathematical Modelling	5	2	A:2	150
26 1002441	Statistical Data Processing Stijn Luca Department of Data Analysis and Mathematical Modelling	4	3	A:1	120
27 1002442	Process Engineering Jo Dewulf Department of Green Chemistry and Technology	4	3	A:2	120
28 1002443	Heat and Mass Transport Jan Pieters Department of Plants and Crops	4	3	A:1	120
29 1002444	Chemical Analytical Techniques Kristof Demeestere Department of Green Chemistry and Technology	4	3	A:2	120
30 1002445	Modelling and Simulation of Biosystems David Fernandes del Pozo Department of Data Analysis and Mathematical Modelling	4	3	A:2	120
31 1002446	Economics Wim Verbeke Department of Agricultural Economics	4	3	A:1	120
32 1002447	Bachelor Thesis Niko Verhoest Department of Environment	6	3	A:J	180

2	2 Courses Related to the Main Subject			30 credits		
Nr	Course		CRDT	Ref MT1	Session	Study
1	1002503	Environmental Chemistry Christophe Walgraeve Department of Green Chemistry and Technology	6	3	A:1	180
2	1002504	Applied Freshwater Ecology [en] Peter Goethals Department of Animal Sciences and Aquatic Ecology	3	3	A:1	90
3	1002505	Microbial Ecological Processes Jo De Vrieze Department of Biotechnology	4	3	A:1	120
4	1002701	Clean Technology: Theory and Concepts [en] Pieter Nachtergaele Department of Green Chemistry and Technology	3	3	A:1	90
5	1002507	Environmental Technology: Solid Waste Streams Frederik Ronsse Department of Green Chemistry and Technology	4	3	A:2	120
6	1002508	Environmental Technology: Water [en] Korneel Rabaey Department of Biotechnology	6	3	A:2	180
7	E039060	Sustainable Energy and Rational Use of Energy [en] Jeroen Beeckman Department of Electronics and Information Systems	4	3	A:2	120

Teaching

When a course is not taught (solely) in the programme's language of instruction, the effectively used languages are indicated in square brackets following the cours name, using the following ISO codes:

bg: Bulgarian de: German es: Spanish ja: Japanese pl: Polish sh: Kroatian/Serbian zh: Chinese

cs: Czech el: Greek fr: French nl: Dutch pt: Portuguese sl: Slovene da: Danish en: English it: Italian no: Norwegian ru: Russian sv: Swedish

Semester

Semesters are indicated by their number (1 or 2); semester 3 represents the summer period and J indicates a course spanning semesters 1 and 2. When a capital letter precedes a semester number, the course has multiple offerings. The letter indicates the offering concerned.

When a semester is shown in brackets, the course in not offered this year in the specific offering.

The offering frequency and first year of offering are indicated by the following codes:

a: bi-annually c: annually, from 2022-2023 f: annually, from 2023-2024 i: annually, from 2024-2025 g: bi-annually, from 2023-2024 j: bi-annually, from 2024-2025 e: tri-annually, from 2022-2023 h: tri-annually, from 2023-2024 k: tri-annually, from 2024-2025

06-07-2025 14:57 p 2