

## Study Programme

Academic year 2025-2026

Faculty of Economics and Business Administration

Master of Science in Business Engineering -- Data Analytics

Language of instruction: English

Programme version 11

3 Elective Courses

1	General	Courses			50 credits			
Nr	Course		CRDT	Ref MT1	Session	Study		
1	F000442	Strategic Management  Johan Verrue Department of Marketing, Innovation and Organisation	6	1	A:1	180		
2	F000896	Technology for the Circular Economy Ramon Ganigué Department of Biotechnology	5	1	A:2	150		
3	F000671	Human Resources Management  Dirk Buyens Department of Marketing, Innovation and Organisation	5	1	A:2	150		
4	F000124	System Dynamics Mia Loccufier Department of Electromechanical, Systems and Metal Engineering	5	1	A:1	150		
5	F000699	Business-to-business Marketing Steve Muylle Department of Marketing, Innovation and Organisation	6	1	A:1	180		
6	F000700	Managing Service Organisations Kaat De Pourcq Department of Marketing, Innovation and Organisation	4	2	B:2	120		
7	F000897	Enterprise Architecture  Geert Poels Department of Business Informatics and Operations Management	4	2	A:1	120		
8	F000892	Innovation Management Katrien Verleye Department of Marketing, Innovation and Organisation	3	2	A:2	90		
9	F000778	Business Process Management  Michaël Verdonck Department of Business Informatics and Operations Management	4	1	A:2	120		
10	F000704	Financing High Tech Entrepreneurial Companies  Miguel Meuleman Department of Accounting, Corporate Finance and Taxation	4	2	B:1	120		
11	F000891	Technology Entrepreneurship  Johan Verrue Department of Marketing, Innovation and Organisation	4	2	A:1	120		
2	Courses	ourses Related to the Main Subject				34 credits		
Nr	Course		CRDT	Ref MT1	Session	Study		
1	F000799	Social Media and Web Analytics Matthias Bogaert Department of Marketing, Innovation and Organisation	6	1	A:2	180		
2	F000712	Analytical Customer Relationship Management Dirk Van den Poel Department of Marketing, Innovation and Organisation	6	1	A:1	180		
3	F000942	Machine Learning  Dries Benoit Department of Marketing, Innovation and Organisation	6	1	A:1	180		
4	F000941	Simulation Modelling and Analysis  Broos Maenhout Department of Business Informatics and Operations Management	4	1	A:2	120		
5	F000801	Predictive and Prescriptive Analytics  Matthias Bogaert Department of Marketing, Innovation and Organisation	6	2	A:2	180		
6	F000802	Big Data Dirk Van den Poel Department of Marketing, Innovation and Organisation	6	2	A:1	180		

Subscribe to 12 credit units from no less than 1 and no more than 3 modules from the following list. Subject to approval by the faculty. Distributed over the first standard learning path as 6 credit units in year 1 and 6 credit units in year 2, over the second standard learning path as 6 credit units in year 2 and 6 credit units in year 3.

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12 credits

## 3.1 Elective Advanced Courses

Subscribe to no more than 12 credit units from the following list.

Subscribe to Nr Course	no more than 12 credit units from the following list.	CRDT Ref MT1	Session	Study
1 F00068	•	6	A:1	180
2 F00089	Michael Frömmel Department of Economics  Business Valuation  Leentje Moortgat Department of Accounting, Corporate Finance and Taxation	4	A:2	120
3 F00100		4	A:2	120
4 F00071	7 Financial Risk Management Frank De Jonghe Department of Economics	6	A:1	180
5 F00070	Advanced Production Management  Veronique Limère Department of Business Informatics and Operations Management	6	A:2	180
6 F00089	9 Quality Management  Dries Goossens Department of Business Informatics and Operations Management	6	B:1	180
7 F00083	Decision Making for Business  Mario Vanhoucke Department of Business Informatics and Operations Management	6	A:1	180
8 F00071	O Supply Chain Management  Louis-Philippe Kerkhove Department of Business Informatics and Operations Management	6	A:2	180
9 F00067	6 Econometrics: Time Series Analysis  Gerdie Everaert Department of Economics	6	A:1	180
10 F00092	Networks in Socio-Economic Systems Luis Enrique Correa da Rocha Department of Economics	6	A:2	180
11 F00070	7 Project Management  Mario Vanhoucke Department of Business Informatics and Operations Management	6	A:1	180
12 F00091	8 Deep Learning Seppe vanden Broucke Department of Business Informatics and Operations Management	6	A:2	180
13 F00088	9 Internship [nl, en] Frederik Gailly	6	A:J	180
14 1003060	Sustainable Systems Engineering Sophie Huysveld Department of Green Chemistry and Technology	5	A:1	150
15 E06546	O Rational Use of Materials  Tom Depover Department of Materials, Textiles and Chemical Engineering	5	A:1	150
16 E00415	3 Heuristics and Search Methods Sidharta Gautama Department of Industrial Systems Engineering and Product Design	3	A:2	90
17 E07638	O Methods Engineering and Work Measurement  Dieter Claeys Department of Industrial Systems Engineering and Product Design	6	A:2	180
18 E00472	Network Modelling and Design     Mario Pickavet Department of Information Technology	4	B:2	120
19 E07682	O Project Management  Mario Vanhoucke Department of Business Informatics and Operations Management	6	A:2	180
20 E06024	O Quality Engineering and Industrial Statistics Stijn De Vuyst Department of Industrial Systems Engineering and Product Design	6	A:2	180
21 E01132	O Queueing Theory  Joris Walraevens Department of Telecommunications and Information Processing	6	A:1	180
22 E01813	O NoSQL Databases  Antoon Bronselaer Department of Telecommunications and Information Processing	3	A:2	90
23 E01870	O Data Quality  Antoon Bronselaer Department of Telecommunications and Information Processing	3	A:1	90
3.2 Elect	ive General Courses			
Subscribe to	no more than 12 credit units from the following list.			

Subscribe to no more than 12 credit units from the following list.

	Course	<b>3</b>	CRDT Ref	MT1 Session	Study
1	F000681	Economics of Banking Rudi Vander Vennet Department of Economics	6	A:1	180
2	F000764	Economics of Financial Markets  William De Vijlder Department of Economics	6	A:1	180

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3	F000687	Advanced Econometrics: Non-Linear Methods  Gerdie Everaert Department of Economics	6			A:2	180
4	F001007	Advanced Microeconomics: Game Theory [en, nl]  Dirk Van de gaer Department of Economics	6			A:1	180
5	F000628	Microeconomics: Decision Theory  Dirk Van de gaer Department of Economics	6			B:1	180
6	F000196	Monetary Economics [nl]  Gert Peersman Department of Economics	5			A:1	150
7	F000935	Ecological Economics  Brent Bleys Department of Economics	6			A:2	180
8	F000640	Audit Vincent Compagnie Department of Accounting, Corporate Finance and Taxation	6			A:1	180
9	F000852	Taxation [nl] Annelies Roggeman Department of Accounting, Corporate Finance and Taxation	5			A:2	150
10	F000694	Advanced Financial Statement Analysis  Heidi Vander Bauwhede Department of Accounting, Corporate Finance and Taxation	6			A:1	180
11	F000696	Market Research Methods Hendrik Slabbinck Department of Marketing, Innovation and Organisation	6			A:1	180
12	F000859	Corporate Social Responsibility [nl] Saskia Crucke Department of Marketing, Innovation and Organisation	3			A:2	90
13	B001339	Law and Economics [nl] Ben Depoorter Department of Interdisciplinary Study of Law, Private Law and Business Law	3			A:2	90
14	F000933	Environmental Economics [nl]  Johan Albrecht Department of Economics	4			A:1	120
15	E075310	Ethics, Engineering and Society [nl] Seppe Segers Department of Philosophy and Moral Sciences	3			A:2	90
16	D012535	Health Economics [nl] Dominique Vandijck Department of Public Health and Primary Care	5			A:1	150
17	H001977	Coaching and Diversity [nl]  Elisabeth De Schauwer Department of Special Education	3	UKV		A:J	90
18	D002354	Movement and Sports: Now and Later [nl]  Veerle Segers Department of Movement and Sports Sciences	3	UKV		A:2	90
19	F000750	Labour and Employment [nl] Stijn Baert Department of Economics	6			A:1	180
3.3	3						
		more than 12 credit units from the following list.		D (	NAT4		01 1
<u>Nr</u> 1	H002476	Powerful Learning Environments [nl]	CRDT 6	Ref	MT1	Session A:1	Study 180
•		Bram De Wever Department of Educational Studies	J			,	.00
2	H002478	The Student: Development and Motivation [nl] Wim Beyers Department of Developmental, Personality and Social Psychology	6			A:1	180
3	H002477	The Teacher within Class, School and Society [nl]  Melissa Tuytens Department of Educational Studies	6			A:2	180
4	Master's	s Dissertation				24 (	credits
Nr	Course		CRDT	Ref	MT1	Session	Study
-	<b>5</b> 000010				_		

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24

2

A:J

720

1 F000612 Master's Dissertation

## 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

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 2026-2027 f: annually, from 2027-2028 i: annually, from 2028-2029 g: bi-annually, from 2027-2028 g: bi-annually, from 2027-2028 j: bi-annually, from 2028-2029 e: tri-annually, from 2026-2027 h: tri-annually, from 2027-2028 k: tri-annually, from 2028-2029

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