

## Study Programme

Academic year 2024-2025

Faculty of Economics and Business Administration

Master of Science in Business Engineering -- Data Analytics

Language of instruction: English

Programme version 10

1	General	Courses			50	credits
	Course F000442	Strategic Management	CRDT 6	Ref MT1	Session A:1	Stud 180
	1 000 1 12	Johan Verrue Department of Marketing, Innovation and Organisation	ŭ	·	7	.00
<u> </u>	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
ļ	F000124	System Dynamics Mia Loccufier Department of Electromechanical, Systems and Metal Engine	5 eering	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  Michal Hron Department of Business Informatics and Operations Managem	4 lent	2	A:1	120
3	F000892	Innovation Management Katrien Verleye Department of Marketing, Innovation and Organisation	3	2	A:2	90
)	F000778	Business Process Management Michaël Verdonck Department of Business Informatics and Operations Man	4 nagement	1	A:2	120
0	F000704	Financing High Tech Entrepreneurial Companies  Miguel Meuleman Department of Accounting, Corporate Finance and Taxat	4 tion	2	B:1	120
1	F000891	Technology Entrepreneurship Johan Verrue Department of Marketing, Innovation and Organisation	4	2	A:1	120
2	Courses	Related to the Main Subject			34	credit
1r	Course		CRDT	Ref MT1	Session	Stud
	F000799	Social Media and Web Analytics Matthias Bogaert Department of Marketing, Innovation and Organisation	6	1	A:2	180
	F000712	Analytical Customer Relationship Management Dirk Van den Poel Department of Marketing, Innovation and Organisation	6	1	A:1	18
	F000942	Machine Learning Dries Benoit Department of Marketing, Innovation and Organisation	6	1	A:1	18
	F000941	Simulation Modelling and Analysis Broos Maenhout Department of Business Informatics and Operations Mana	4 agement	1	A:2	12
	F000801	Predictive and Prescriptive Analytics Matthias Bogaert Department of Marketing, Innovation and Organisation	6	2	A:2	18
	F000802	Big Data Dirk Van den Poel Department of Marketing, Innovation and Organisation	6	2	A:1	18
	Flective	Courses			_ 12	credit

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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## 3.1 Elective Advanced Courses

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

r Course E000683		CRDT Ref MT1	Session A:1	Study
F000683	Investment Analysis Michael Frömmel Department of Economics	6	A:1	180
F000898	Business Valuation Leentje Moortgat Department of Accounting, Corporate Finance and Taxation	4	A:2	120
F001006	Management Accounting and Control Sophie Maussen Department of Accounting, Corporate Finance and Taxation	4	A:2	120
F000717	Financial Risk Management Frank De Jonghe Department of Economics	6	A:1	180
F000706	Advanced Production Management Veronique Limère Department of Business Informatics and Operations Management	6 ement	A:2	180
F000899	Quality Management Dries Goossens Department of Business Informatics and Operations Manager	6 ment	B:1	180
F000836	Decision Making for Business Mario Vanhoucke Department of Business Informatics and Operations Manag	6 ement	A:1	180
F000710	Supply Chain Management Louis-Philippe Kerkhove Department of Business Informatics and Operations	6 Management	A:2	180
F000676	Econometrics: Time Series Analysis Gerdie Everaert Department of Economics	6	A:1	180
F000920	Networks in Socio-Economic Systems Luis Enrique Correa da Rocha Department of Economics	6	A:2	180
F000707	Project Management  Mario Vanhoucke Department of Business Informatics and Operations Manag	6 ement	A:1	180
2 F000918	Deep Learning Seppe vanden Broucke Department of Business Informatics and Operations N	6 Nanagement	A:2	180
3 F000889	Internship [nl, en] Frederik Gailly	6	A:J	180
1 1002700	Clean Technology Sophie Huysveld Department of Green Chemistry and Technology	5	A:1	150
5 E065460	Rational Use of Materials  Tom Depover Department of Materials, Textiles and Chemical Engineering	5	A:1	150
6 E004153	Heuristics and Search Methods Sidharta Gautama Department of Industrial Systems Engineering and Product	3 Design	A:1	90
' E076380	Methods Engineering and Work Measurement Dieter Claeys Department of Industrial Systems Engineering and Product Des	6 ign	A:2	180
B E004720	Network Modelling and Design Mario Pickavet Department of Information Technology	4	B:2	120
E076820	Project Management  Mario Vanhoucke Department of Business Informatics and Operations Manag	6 ement	A:2	180
) E060240	Quality Engineering and Industrial Statistics Stijn De Vuyst Department of Industrial Systems Engineering and Product Des	6 sign	A:2	180
E011320	Queueing Theory  Joris Walraevens Department of Telecommunications and Information Proces	6 sing	A:1	180
? E018130	NoSQL Databases Antoon Bronselaer Department of Telecommunications and Information Proce	3 ssing	A:2	90
E018700	Data Quality Antoon Bronselaer Department of Telecommunications and Information Proce	3 ssing	A:1	90
2 Electiv	ve General Courses			
r Course		CRDT Ref MT1	Session	Study
F000681		6	A:1	180
F000764	Economics of Financial Markets William De Vijlder Department of Economics	6	A:1	180

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4 F0		Advanced Microeconomics: Game Theory [en, nl] Dirk Van de gaer Department of Economics	6			A:1	180
5 F0		Microeconomics: Decision Theory Dirk Van de gaer Department of Economics	6			B:1	180
6 F0		Monetary Economics [nl] Gert Peersman Department of Economics	5			A:1	150
7 F0	000935	Ecological Economics Brent Bleys Department of Economics	6			A:2	180
8 F0		Insurances [nl] Thomas Verheyen Department of Interdisciplinary Study of Law, Private Law an	6 d Bus	iness L	_aw	A:1	180
9 F0		Audit Anschi De Wolf Department of Accounting, Corporate Finance and Taxation	6			A:1	180
10 FC		Taxation [nl] Annelies Roggeman Department of Accounting, Corporate Finance and Taxation	5 n			A:2	150
11 F0		Advanced Financial Statement Analysis Heidi Vander Bauwhede Department of Accounting, Corporate Finance and Tax	6 cation			A:1	180
12 F0		Market Research Methods Hendrik Slabbinck Department of Marketing, Innovation and Organisation	6			A:1	180
13 F0		Corporate Social Responsibility [nl] Saskia Crucke Department of Marketing, Innovation and Organisation	3			A:2	90
14 B(		Law and Economics [nl] Ben Depoorter Department of Interdisciplinary Study of Law, Private Law and B	3 usines	s Law		A:2	90
15 F0		Environmental Economics [nl] Johan Albrecht Department of Economics	4			A:1	120
16 E0	075310	Ethics, Engineering and Society [nl] Seppe Segers Department of Philosophy and Moral Sciences	3			A:2	90
17 D		Health Economics [nl] Dominique Vandijck Department of Public Health and Primary Care	5			A:1	150
18 H		Coaching and Diversity [nl] Elisabeth De Schauwer Department of Special Education	3	UKV		A:J	90
19 D(		Movement and Sports: Now and Later [nl] Veerle Segers Department of Movement and Sports Sciences	3	UKV		A:2	90
20 FC	000750	Labour and Employment [nl] Stijn Baert Department of Economics	6			A:1	180
3.3 I	Elective	e Courses Academic Teacher Education					
	ribe to no ourse	more than 12 credit units from the following list.	RDT	Ref	MT1	Session	Study
1 H(		Powerful Learning Environments [nl] Bram De Wever Department of Educational Studies	6			A:1	180
2 H	002196	Classroom Management and Reflection [nl] Tijs Rotsaert Department of Educational Studies	4			A:2	120
3 H	002197	The Teacher within School and Society [nl] Melissa Tuytens Department of Educational Studies	4			A:1	120
4 H(		Psychology of Adolescence [nl] Wim Beyers Department of Developmental, Personality and Social Psychology	4			A:1	120
4 M	aster's	Dissertation				24 c	redits
Nr Co	ourse	C	RDT	Ref	MT1	Session	Study
1 FC	100612	Master's Dissertation	24		2	Δ·Ι	720

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1 F000612 Master's Dissertation

24

2

A:J

720

## 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 it: Italian ru: Russian da: Danish en: English no: Norwegian 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:

c: annually, from 2025-2026 f: annually, from 2026-2027 i: annually, from 2027-2028 a: bi-annually g: bi-annually, from 2026-2027 j: bi-annually, from 2027-2028 b: tri-annually d: bi-annually, from 2025-2026 h: tri-annually, from 2026-2027 k: tri-annually, from 2027-2028 e: tri-annually, from 2025-2026

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