

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

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 Michal Hron 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	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 n Vr. Course	o more than 12 credit units from the following list.	CRDT Ref MT1	Session	Study
	Investment Analysis Michael Frömmel Department of Economics	6	A:1	180
2 F000898	Business Valuation Leentje Moortgat Department of Accounting, Corporate Finance and Taxation	4	A:2	120
3 F001006	Management Accounting and Control Sophie Maussen Department of Accounting, Corporate Finance and Taxation	4	A:2	120
4 F000717	Financial Risk Management Frank De Jonghe Department of Economics	6	A:1	180
5 F000706	Advanced Production Management Veronique Limère Department of Business Informatics and Operations Management	6	A:2	180
6 F000899	Quality Management Dries Goossens Department of Business Informatics and Operations Management	6	B:1	180
7 F000836	Decision Making for Business Mario Vanhoucke Department of Business Informatics and Operations Management	6	A:1	180
8 F000710	Supply Chain Management Louis-Philippe Kerkhove Department of Business Informatics and Operations Management	6	A:2	180
9 F000676	Econometrics: Time Series Analysis Gerdie Everaert Department of Economics	6	A:1	180
10 F000920	Networks in Socio-Economic Systems Luis Enrique Correa da Rocha Department of Economics	6	A:2	180
11 F000707	Project Management Mario Vanhoucke Department of Business Informatics and Operations Management	6	A:1	180
12 F000918	Deep Learning Seppe vanden Broucke Department of Business Informatics and Operations Management	6	A:2	180
13 F000889	Internship [nl, en] Frederik Gailly	6	A:J	180
14 1002700	Clean Technology Sophie Huysveld Department of Green Chemistry and Technology	5	A:1	150
15 E065460	Rational Use of Materials Tom Depover Department of Materials, Textiles and Chemical Engineering	5	A:1	150
16 E004153	Heuristics and Search Methods Sidharta Gautama Department of Industrial Systems Engineering and Product Design	3	A:1	90
17 E076380	Methods Engineering and Work Measurement Dieter Claeys Department of Industrial Systems Engineering and Product Design	6	A:2	180
18 E004720	Network Modelling and Design Mario Pickavet Department of Information Technology	4	B:2	120
19 E076820	Project Management Mario Vanhoucke Department of Business Informatics and Operations Management	6	A:2	180
20 E060240	Quality Engineering and Industrial Statistics Stijn De Vuyst Department of Industrial Systems Engineering and Product Design	6	A:2	180
21 E011320	Queueing Theory Joris Walraevens Department of Telecommunications and Information Processing	6	A:1	180
22 E018130	NoSQL Databases Antoon Bronselaer Department of Telecommunications and Information Processing	3	A:2	90
23 E018700	Data Quality Antoon Bronselaer Department of Telecommunications and Information Processing	3	A:1	90
3.2 Electiv	ve General Courses			
Vr Course		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
3 F000687	Advanced Econometrics: Non-Linear Methods Gerdie Everaert Department of Economics	6	A:2	180

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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	F000653	Insurances [nl] Thomas Verheyen Department of Interdisciplinary Study of Law, Private Law and Business Law	6			A:1	180
9	F000640	Audit Anschi De Wolf Department of Accounting, Corporate Finance and Taxation	6			A:1	180
10	F000852	Taxation [nl] Annelies Roggeman Department of Accounting, Corporate Finance and Taxation	5			A:2	150
11	F000694	Advanced Financial Statement Analysis Heidi Vander Bauwhede Department of Accounting, Corporate Finance and Taxation	6			A:1	180
12	F000696	Market Research Methods Hendrik Slabbinck Department of Marketing, Innovation and Organisation	6			A:1	180
13	F000859	Corporate Social Responsibility [nl] Saskia Crucke Department of Marketing, Innovation and Organisation	3			A:2	90
14	B001339	Law and Economics [nl] Ben Depoorter Department of Interdisciplinary Study of Law, Private Law and Business Law	3			A:2	90
15	F000933	Environmental Economics [nl] Johan Albrecht Department of Economics	4			A:1	120
16	E075310	Ethics, Engineering and Society [nl] Seppe Segers Department of Philosophy and Moral Sciences	3			A:2	90
17	D012535	Health Economics [nl] Dominique Vandijck Department of Public Health and Primary Care	5			A:1	150
18	H001977	Coaching and Diversity [nl] Elisabeth De Schauwer Department of Special Education	3	UKV		A:J	90
19	D002354	Movement and Sports: Now and Later [nl] Veerle Segers Department of Movement and Sports Sciences	3	UKV		A:2	90
20	F000750	Labour and Employment [nl] Stijn Baert Department of Economics	6			A:1	180
3.	3 Electiv	e Courses Academic Teacher Education					
		more than 12 credit units from the following list.	CRDT	Ref	MT1	Session	Study
1	H002169	Powerful Learning Environments [nl] Bram De Wever Department of Educational Studies	6	Kei	IVIII	A:1	180
2	H002196	Classroom Management and Reflection [nl] Tijs Rotsaert Department of Educational Studies	4			A:2	120
3	H002197	The Teacher within School and Society [nl] Melissa Tuytens Department of Educational Studies	4			A:1	120
4	H002198	Psychology of Adolescence [nl] Wim Beyers Department of Developmental, Personality and Social Psychology	4			A:1	120
4_	Master's	s Dissertation				24	credits

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Nr Course

1 F000612 Master's Dissertation

CRDT Ref MT1

2

A:J

720

24

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

pt: Portuguese cs: Czech el: Greek fr: French nl: Dutch 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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