

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
Nr	Course		CRDT	Ref MT1	Session	Study
1	F000442	Strategic Management Johan Verrue Department of Marketing, Innovation and Organisation Indicative price: € 0	6	1	A:1	180
2	F000896	Technology for the Circular Economy Ramon Ganigué Department of Biotechnology Indicative price: € 0	5	1	A:2	150
3	F000671	Human Resources Management Dirk Buyens Department of Marketing, Innovation and Organisation Indicative price: € 70	5	1	A:2	150
4	F000124	System Dynamics Mia Loccufier Department of Electromechanical, Systems and Metal Engineering Indicative price: € 6	5	1	A:1	150
5	F000699	Business-to-business Marketing Steve Muylle Department of Marketing, Innovation and Organisation Indicative price: € 95	6	1	A:1	180
6	F000700	Managing Service Organisations Kaat De Pourcq Department of Marketing, Innovation and Organisation Indicative price: € 10	4	2	B:2	120
7	F000897	Enterprise Architecture Michal Hron Department of Business Informatics and Operations Management Indicative price: € 0	4	2	A:1	120
8	F000892	Innovation Management Katrien Verleye Department of Marketing, Innovation and Organisation Indicative price: € 55	3	2	A:2	90
9	F000778	Business Process Management Michaël Verdonck Department of Business Informatics and Operations Management Indicative price: € 0	4	1	A:2	120
10	F000704	Financing High Tech Entrepreneurial Companies Miguel Meuleman Department of Accounting, Corporate Finance and Taxation Indicative price: € 0	4	2	B:1	120
11	F000891	Technology Entrepreneurship Johan Verrue Department of Marketing, Innovation and Organisation Indicative price: unknown	4	2	A:1	120
2	Courses	s 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 Indicative price: € 0	6	1	A:2	180
2	F000712	Analytical Customer Relationship Management	6	1	A:1	180

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Dirk Van den Poel -- Department of Marketing, Innovation and Organisation

Indicative price: € 0

3	F000942	Machine Learning Dries Benoit Department of Marketing, Innovation and Organisation Indicative price: € 0	6	1	A:1	180
4	F000941	Simulation Modelling and Analysis Broos Maenhout Department of Business Informatics and Operations Management Indicative price: € 52	4	1	A:2	120
5	F000801	Predictive and Prescriptive Analytics Matthias Bogaert Department of Marketing, Innovation and Organisation Indicative price: € 0	6	2	A:2	180
6	F000802	Big Data Dirk Van den Poel Department of Marketing, Innovation and Organisation Indicative price: € 0	6	2	A:1	180

3 Elective Courses 12 credits

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.

3.1 Elective Advanced Courses

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

Nr C			CRDT Ref IV	1T1 Session	Study
1 F	F000683	Investment Analysis Michael Frömmel Department of Economics Indicative price: € 30	6	A:1	180
2 F	F000898	Business Valuation Leentje Moortgat Department of Accounting, Corporate Finance and Taxation Indicative price: € 0	4	A:2	120
3 F	F001006	Management Accounting and Control Sophie Maussen Department of Accounting, Corporate Finance and Taxation Indicative price: € 37	4	A:2	120
4 F	F000717	Financial Risk Management Frank De Jonghe Department of Economics Indicative price: unknown	6	A:1	180
5 F	F000706	Advanced Production Management Veronique Limère Department of Business Informatics and Operations Management Indicative price: € 120	6	A:2	180
6 F	F000899	Quality Management Dries Goossens Department of Business Informatics and Operations Management Indicative price: € 0	6	B:1	180
7 F	F000836	Decision Making for Business Mario Vanhoucke Department of Business Informatics and Operations Management Indicative price: € 10	6	A:1	180
8 F	F000710	Supply Chain Management Louis-Philippe Kerkhove Department of Business Informatics and Operations Management Indicative price: € 50	6	A:2	180
9 F	F000676	Econometrics: Time Series Analysis Gerdie Everaert Department of Economics Indicative price: € 0	6	A:1	180
10 F	F000920	Networks in Socio-Economic Systems Luis Enrique Correa da Rocha Department of Economics Indicative price: € 110	6	A:2	180
11 F	F000707	Project Management Mario Vanhoucke Department of Business Informatics and Operations Management Indicative price: € 75	6	A:1	180
12 F	F000918	Deep Learning Seppe vanden Broucke Department of Business Informatics and Operations Management Indicative price: € 0	6	A:2	180
13 F	F000889	Internship [nl, en] Frederik Gailly Indicative price: unknown	6	A:J	180

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14	1002700	Clean Technology Sophie Huysveld Department of Green Chemistry and Technology Indicative price: unknown	5	A:1	150
15	E065460	Rational Use of Materials Tom Depover Department of Materials, Textiles and Chemical Engineering Indicative price: unknown	5	A:1	150
16	E004153	Heuristics and Search Methods Sidharta Gautama Department of Industrial Systems Engineering and Product Design Indicative price: € 0	3	A:1	90
17	E076380	Methods Engineering and Work Measurement Dieter Claeys Department of Industrial Systems Engineering and Product Design Indicative price: € 50	6	A:2	180
18	E004720	Network Modelling and Design Mario Pickavet Department of Information Technology Indicative price: € 30	4	B:2	120
19	E076820	Project Management Mario Vanhoucke Department of Business Informatics and Operations Management Indicative price: € 75	6	A:2	180
20	E060240	Quality Engineering and Industrial Statistics Stijn De Vuyst Department of Industrial Systems Engineering and Product Design Indicative price: € 50	6	A:2	180
21	E011320	Queueing Theory Joris Walraevens Department of Telecommunications and Information Processing Indicative price: € 10	6	A:1	180
22	E018130	NoSQL Databases Antoon Bronselaer Department of Telecommunications and Information Processing Indicative price: € 30	3	A:2	90
23	E018700	Data Quality Antoon Bronselaer Department of Telecommunications and Information Processing Indicative price: € 25	3	A:1	90
3.2	2 Elective	e General Courses			
Nr	Course		CRDT Ref MT1	Session	Study
1	F000681	Economics of Banking Rudi Vander Vennet Department of Economics Indicative price: € 0	6	A:1	180
2	F000764	Economics of Financial Markets William De Vijlder Department of Economics Indicative price: € 0	6	A:1	180
3	F000687	Advanced Econometrics: Non-Linear Methods Gerdie Everaert Department of Economics Indicative price: € 0	6	A:2	180
4	F001007	Advanced Microeconomics: Game Theory [en, nl] Dirk Van de gaer Department of Economics Indicative price: € 0	6	A:1	180
5	F000628	Microeconomics: Decision Theory Dirk Van de gaer Department of Economics Indicative price: € 0	6	B:1	180
6	F000196	Monetary Economics [nl] Gert Peersman Department of Economics	5	A:1	150

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6

6

A:2

A:1

A:1

180

180

180

Indicative price: € 0

Indicative price: € 0

<u>Indicative price</u>: € 109

Indicative price: € 0

Brent Bleys -- Department of Economics

Thomas Verheyen -- Department of Interdisciplinary Study of Law, Private Law and Business Law

Anschi De Wolf -- Department of Accounting, Corporate Finance and Taxation

7 F000935 Ecological Economics

F000653 Insurances [nl]

F000640 Audit

10 F000852	Taxation [nl] Annelies Roggeman Department of Accounting, Corporate Finance and Taxation Indicative price: € 78	5		A:2	150
11 F000694	Advanced Financial Statement Analysis Heidi Vander Bauwhede Department of Accounting, Corporate Finance and Taxation Indicative price: € 70	6		A:1	180
12 F000696	Market Research Methods Hendrik Slabbinck Department of Marketing, Innovation and Organisation Indicative price: € 0	6		A:1	180
13 F000859	Corporate Social Responsibility [nl] Saskia Crucke Department of Marketing, Innovation and Organisation Indicative price: € 0	3		A:2	90
14 B001339	Law and Economics [nl] Ben Depoorter Department of Interdisciplinary Study of Law, Private Law and Business Law Indicative price: € 40	3		A:2	90
15 F000933	Environmental Economics [nl] Johan Albrecht Department of Economics Indicative price: € 35	4		A:1	120
16 E075310	Ethics, Engineering and Society [nl] Seppe Segers Department of Philosophy and Moral Sciences Indicative price: unknown	3		A:2	90
17 D012535	Health Economics [nl] Dominique Vandijck Department of Public Health and Primary Care Indicative price: € 30	5		A:1	150
18 H001977	Coaching and Diversity [nl] Elisabeth De Schauwer Department of Special Education Indicative price: € 0	3	UKV	A:J	90
19 D002354	Movement and Sports: Now and Later [nl] Veerle Segers Department of Movement and Sports Sciences Indicative price: € 50	3	UKV	A:2	90
20 F000750	Labour and Employment [nl] Stijn Baert Department of Economics Indicative price: € 9	6		A:1	180

3.3 Elective Courses Academic Teacher Education

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

Nr	Course	· · · · · · · · · · · · · · · · · · ·	CRDT	Ref	MT1	Session	Study
1	H002169	Powerful Learning Environments [nl] Bram De Wever Department of Educational Studies Indicative price: € 50	6			A:1	180
2	H002196	Classroom Management and Reflection [nl] Tijs Rotsaert Department of Educational Studies Indicative price: € 50	4			A:2	120
3	H002197	The Teacher within School and Society [nl] Melissa Tuytens Department of Educational Studies Indicative price: € 50	4			A:1	120
4	H002198	Psychology of Adolescence [nl] Wim Beyers Department of Developmental, Personality and Social Psychology Indicative price: € 51	4			A:1	120

4 Master's Dissertation				24 credits		
Nr Course	CRDT Ref	MT1	Session	Study		
1 F000612 Master's Dissertation Indicative price: € 0	24	2	A:J	720		

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Programme related study costs

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

en: English it: Italian ru: Russian da: Danish 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:

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

Learning materials

The prices stated are indicative and subject to fluctuations.

The list of learning materials per course unit can be found in the course sheets.

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