

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

3	F000942	Machine Learning <i>Dries Benoit -- Department of Marketing, Innovation and Organisation</i> Indicative price: € 0	6	1	A:1	180
4	F000941	Simulation Modelling and Analysis <i>Broos Maenhout -- Department of Business Informatics and Operations Management</i> Indicative price: € 52	4	1	A:2	120
5	F000801	Predictive and Prescriptive Analytics <i>Matthias Bogaert -- Department of Marketing, Innovation and Organisation</i> Indicative price: € 0	6	2	A:2	180
6	F000802	Big Data <i>Dirk Van den Poel -- Department of Marketing, Innovation and Organisation</i> 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	Course	CRDT	Ref	MT1	Session	Study
1	F000683 Investment Analysis <i>Michael Frömmel -- Department of Economics</i> Indicative price: € 30	6			A:1	180
2	F000898 Business Valuation <i>Leentje Moortgat -- Department of Accounting, Corporate Finance and Taxation</i> Indicative price: € 0	4			A:2	120
3	F001006 Management Accounting and Control <i>Sophie Maussen -- Department of Accounting, Corporate Finance and Taxation</i> Indicative price: € 37	4			A:2	120
4	F000717 Financial Risk Management <i>Frank De Jonghe -- Department of Economics</i> Indicative price: unknown	6			A:1	180
5	F000706 Advanced Production Management <i>Veronique Limère -- Department of Business Informatics and Operations Management</i> Indicative price: € 120	6			A:2	180
6	F000899 Quality Management <i>Dries Goossens -- Department of Business Informatics and Operations Management</i> Indicative price: € 0	6			B:1	180
7	F000836 Decision Making for Business <i>Mario Vanhoucke -- Department of Business Informatics and Operations Management</i> Indicative price: € 10	6			A:1	180
8	F000710 Supply Chain Management <i>Louis-Philippe Kerkhove -- Department of Business Informatics and Operations Management</i> Indicative price: € 50	6			A:2	180
9	F000676 Econometrics: Time Series Analysis <i>Gerdie Everaert -- Department of Economics</i> Indicative price: € 0	6			A:1	180
10	F000920 Networks in Socio-Economic Systems <i>Luis Enrique Correa da Rocha -- Department of Economics</i> Indicative price: € 110	6			A:2	180
11	F000707 Project Management <i>Mario Vanhoucke -- Department of Business Informatics and Operations Management</i> Indicative price: € 75	6			A:1	180
12	F000918 Deep Learning <i>Seppe vanden Broucke -- Department of Business Informatics and Operations Management</i> Indicative price: € 0	6			A:2	180
13	F000889 Internship [nl, en] <i>Frederik Gailly</i> Indicative price: unknown	6			A:J	180

14	I002700	Clean Technology <i>Sophie Huysveld -- Department of Green Chemistry and Technology</i> Indicative price: unknown	5	A:1	150
15	E065460	Rational Use of Materials <i>Tom Depover -- Department of Materials, Textiles and Chemical Engineering</i> Indicative price: unknown	5	A:1	150
16	E004153	Heuristics and Search Methods <i>Sidharta Gautama -- Department of Industrial Systems Engineering and Product Design</i> Indicative price: € 0	3	A:1	90
17	E076380	Methods Engineering and Work Measurement <i>Dieter Claeys -- Department of Industrial Systems Engineering and Product Design</i> Indicative price: € 50	6	A:2	180
18	E004720	Network Modelling and Design <i>Mario Pickavet -- Department of Information Technology</i> Indicative price: € 30	4	B:2	120
19	E076820	Project Management <i>Mario Vanhoucke -- Department of Business Informatics and Operations Management</i> Indicative price: € 75	6	A:2	180
20	E060240	Quality Engineering and Industrial Statistics <i>Stijn De Vuyst -- Department of Industrial Systems Engineering and Product Design</i> Indicative price: € 50	6	A:2	180
21	E011320	Queueing Theory <i>Joris Walraevens -- Department of Telecommunications and Information Processing</i> Indicative price: € 10	6	A:1	180
22	E018130	NoSQL Databases <i>Antoon Bronselaer -- Department of Telecommunications and Information Processing</i> Indicative price: € 30	3	A:2	90
23	E018700	Data Quality <i>Antoon Bronselaer -- Department of Telecommunications and Information Processing</i> Indicative price: € 25	3	A:1	90

3.2 Elective General Courses

Nr	Course	CRDT	Ref	MT1	Session	Study
1	F000681 Economics of Banking <i>Rudi Vander Vennet -- Department of Economics</i> Indicative price: € 0	6			A:1	180
2	F000764 Economics of Financial Markets <i>William De Vijlder -- Department of Economics</i> Indicative price: € 0	6			A:1	180
3	F000687 Advanced Econometrics: Non-Linear Methods <i>Gerdie Everaert -- Department of Economics</i> Indicative price: € 0	6			A:2	180
4	F001007 Advanced Microeconomics: Game Theory [en, nl] <i>Dirk Van de gaer -- Department of Economics</i> Indicative price: € 0	6			A:1	180
5	F000628 Microeconomics: Decision Theory <i>Dirk Van de gaer -- Department of Economics</i> Indicative price: € 0	6			B:1	180
6	F000196 Monetary Economics [nl] <i>Gert Peersman -- Department of Economics</i> Indicative price: € 0	5			A:1	150
7	F000935 Ecological Economics <i>Brent Bleys -- Department of Economics</i> Indicative price: € 0	6			A:2	180
8	F000653 Insurances [nl] <i>Thomas Verheyen -- Department of Interdisciplinary Study of Law, Private Law and Business Law</i> Indicative price: € 109	6			A:1	180
9	F000640 Audit <i>Anschi De Wolf -- Department of Accounting, Corporate Finance and Taxation</i> Indicative price: € 0	6			A:1	180

10	F000852	Taxation [nl] <i>Annelies Roggeman -- Department of Accounting, Corporate Finance and Taxation</i> Indicative price: € 78	5		A:2	150
11	F000694	Advanced Financial Statement Analysis <i>Heidi Vander Bauwhede -- Department of Accounting, Corporate Finance and Taxation</i> Indicative price: € 70	6		A:1	180
12	F000696	Market Research Methods <i>Hendrik Slabbinck -- Department of Marketing, Innovation and Organisation</i> Indicative price: € 0	6		A:1	180
13	F000859	Corporate Social Responsibility [nl] <i>Saskia Crucke -- Department of Marketing, Innovation and Organisation</i> Indicative price: € 0	3		A:2	90
14	B001339	Law and Economics [nl] <i>Ben Depoorter -- Department of Interdisciplinary Study of Law, Private Law and Business Law</i> Indicative price: € 40	3		A:2	90
15	F000933	Environmental Economics [nl] <i>Johan Albrecht -- Department of Economics</i> Indicative price: € 35	4		A:1	120
16	E075310	Ethics, Engineering and Society [nl] <i>Seppe Segers -- Department of Philosophy and Moral Sciences</i> Indicative price: unknown	3		A:2	90
17	D012535	Health Economics [nl] <i>Dominique Vandijck -- Department of Public Health and Primary Care</i> Indicative price: € 30	5		A:1	150
18	H001977	Coaching and Diversity [nl] <i>Elisabeth De Schauwer -- Department of Special Education</i> Indicative price: € 0	3	UKV	A:J	90
19	D002354	Movement and Sports: Now and Later [nl] <i>Veerle Segers -- Department of Movement and Sports Sciences</i> Indicative price: € 50	3	UKV	A:2	90
20	F000750	Labour and Employment [nl] <i>Stijn Baert -- Department of Economics</i> 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] <i>Bram De Wever -- Department of Educational Studies</i> Indicative price: € 50	6			A:1	180
2	H002196 Classroom Management and Reflection [nl] <i>Tijs Rotsaert -- Department of Educational Studies</i> Indicative price: € 50	4			A:2	120
3	H002197 The Teacher within School and Society [nl] <i>Melissa Tuytens -- Department of Educational Studies</i> Indicative price: € 50	4			A:1	120
4	H002198 Psychology of Adolescence [nl] <i>Wim Beyers -- Department of Developmental, Personality and Social Psychology</i> 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

Programme related study costs

None

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 course name, using the following ISO codes:

bg: Bulgarian	de: German	es: Spanish	ja: Japanese	pl: Polish	sh: Croatian/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 is 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
b: tri-annually	d: bi-annually, from 2025-2026	g: bi-annually, from 2026-2027	j: bi-annually, from 2027-2028
	e: tri-annually, from 2025-2026	h: tri-annually, from 2026-2027	k: tri-annually, from 2027-2028

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.