



**Faculty of Economics and Business Administration  
Master of Science in Business Engineering -- Data Analytics**

Language of instruction: English

Programme version 11

## 1 General Courses 50 credits

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

3	F000942	Machine Learning <i>Dries Benoit -- Department of Marketing, Innovation and Organisation</i> <a href="#">Indicative price: € 0</a>	6	1	A:1	180
4	F000941	Simulation Modelling and Analysis <i>Broos Maenhout -- Department of Business Informatics and Operations Management</i> <a href="#">Indicative price: € 52</a>	4	1	A:2	120
5	F000801	Predictive and Prescriptive Analytics <i>Matthias Bogaert -- Department of Marketing, Innovation and Organisation</i> <a href="#">Indicative price: € 0</a>	6	2	A:2	180
6	F000802	Big Data <i>Dirk Van den Poel -- Department of Marketing, Innovation and Organisation</i> <a href="#">Indicative price: € 0</a>	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> <a href="#">Indicative price: € 30</a>	6			A:1	180
2	F000898	Business Valuation <i>Leentje Moortgat -- Department of Accounting, Corporate Finance and Taxation</i> <a href="#">Indicative price: € 40</a>	4			A:2	120
3	F001006	Management Accounting and Control <i>Sophie Maussen -- Department of Accounting, Corporate Finance and Taxation</i> <a href="#">Indicative price: € 37</a>	4			A:2	120
4	F000717	Financial Risk Management <i>Frank De Jonghe -- Department of Economics</i> <a href="#">Indicative price: unknown</a>	6			A:1	180
5	F000706	Advanced Production Management <i>Veronique Limère -- Department of Business Informatics and Operations Management</i> <a href="#">Indicative price: € 120</a>	6			A:2	180
6	F000899	Quality Management <i>Dries Goossens -- Department of Business Informatics and Operations Management</i> <a href="#">Indicative price: € 0</a>	6			B:1	180
7	F000836	Decision Making for Business <i>Mario Vanhoucke -- Department of Business Informatics and Operations Management</i> <a href="#">Indicative price: € 10</a>	6			A:1	180
8	F000710	Supply Chain Management <i>Louis-Philippe Kerkhove -- Department of Business Informatics and Operations Management</i> <a href="#">Indicative price: € 50</a>	6			A:2	180
9	F000676	Econometrics: Time Series Analysis <i>Gerdie Everaert -- Department of Economics</i> <a href="#">Indicative price: € 0</a>	6			A:1	180
10	F000920	Networks in Socio-Economic Systems <i>Luis Enrique Correa da Rocha -- Department of Economics</i> <a href="#">Indicative price: € 110</a>	6			A:2	180
11	F000707	Project Management <i>Mario Vanhoucke -- Department of Business Informatics and Operations Management</i> <a href="#">Indicative price: € 75</a>	6			A:1	180
12	F000918	Deep Learning <i>Seppe vanden Broucke -- Department of Business Informatics and Operations Management</i> <a href="#">Indicative price: € 0</a>	6			A:2	180
13	F000889	Internship [nl, en] <i>Frederik Gailly</i> <a href="#">Indicative price: unknown</a>	6			A:J	180

14	I003060	Sustainable Systems Engineering <i>Sophie Huysveld -- Department of Green Chemistry and Technology</i> <a href="#">Indicative price: € 0</a>	5	A:1	150
15	E065460	Rational Use of Materials <i>Tom Depover -- Department of Materials, Textiles and Chemical Engineering</i> <a href="#">Indicative price: unknown</a>	5	A:1	150
16	E004153	Heuristics and Search Methods <i>Sidharta Gautama -- Department of Industrial Systems Engineering and Product Design</i> <a href="#">Indicative price: € 0</a>	3	A:2	90
17	E076380	Methods Engineering and Work Measurement <i>Dieter Claeys -- Department of Industrial Systems Engineering and Product Design</i> <a href="#">Indicative price: € 50</a>	6	A:2	180
18	E004720	Network Modelling and Design <i>Mario Pickavet -- Department of Information Technology</i> <a href="#">Indicative price: € 30</a>	4	B:2	120
19	E076820	Project Management <i>Mario Vanhoucke -- Department of Business Informatics and Operations Management</i> <a href="#">Indicative price: € 75</a>	6	A:2	180
20	E060240	Quality Engineering and Industrial Statistics <i>Stijn De Vuyst -- Department of Industrial Systems Engineering and Product Design</i> <a href="#">Indicative price: € 50</a>	6	A:2	180
21	E011320	Queueing Theory <i>Joris Walraevens -- Department of Telecommunications and Information Processing</i> <a href="#">Indicative price: € 10</a>	6	A:1	180
22	E018130	NoSQL Databases <i>Antoon Bronselaer -- Department of Telecommunications and Information Processing</i> <a href="#">Indicative price: € 30</a>	3	A:2	90
23	E018700	Data Quality <i>Antoon Bronselaer -- Department of Telecommunications and Information Processing</i> <a href="#">Indicative price: € 25</a>	3	A:1	90

### 3.2 Elective General Courses

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

Nr	Course		CRDT	Ref	MT1	Session	Study
1	F000681	Economics of Banking <i>Rudi Vander Vennet -- Department of Economics</i> <a href="#">Indicative price: € 0</a>	6			A:1	180
2	F000764	Economics of Financial Markets <i>William De Vijlder -- Department of Economics</i> <a href="#">Indicative price: € 0</a>	6			A:1	180
3	F000687	Advanced Econometrics: Non-Linear Methods <i>Gerdie Everaert -- Department of Economics</i> <a href="#">Indicative price: € 0</a>	6			A:2	180
4	F001007	Advanced Microeconomics: Game Theory [en, nl] <i>Dirk Van de gaer -- Department of Economics</i> <a href="#">Indicative price: € 0</a>	6			A:1	180
5	F000628	Microeconomics: Decision Theory <i>Dirk Van de gaer -- Department of Economics</i> <a href="#">Indicative price: € 0</a>	6			B:1	180
6	F000196	Monetary Economics [nl] <i>Gert Peersman -- Department of Economics</i> <a href="#">Indicative price: € 0</a>	5			A:1	150
7	F000935	Ecological Economics <i>Brent Bleyls -- Department of Economics</i> <a href="#">Indicative price: € 0</a>	6			A:2	180
8	F000640	Audit <i>Vincent Compagnie -- Department of Accounting, Corporate Finance and Taxation</i> <a href="#">Indicative price: € 0</a>	6			A:1	180
9	F000852	Taxation [nl] <i>Annelies Roggeman -- Department of Accounting, Corporate Finance and Taxation</i> <a href="#">Indicative price: € 78</a>	5			A:2	150

10	F000694	Advanced Financial Statement Analysis <i>Heidi Vander Bauwheide -- Department of Accounting, Corporate Finance and Taxation</i> <a href="#">Indicative price: € 75</a>	6	A:1	180	
11	F000696	Market Research Methods <i>Hendrik Slabbinck -- Department of Marketing, Innovation and Organisation</i> <a href="#">Indicative price: € 0</a>	6	A:1	180	
12	F000859	Corporate Social Responsibility [nl] <i>Saskia Crucke -- Department of Marketing, Innovation and Organisation</i> <a href="#">Indicative price: € 0</a>	3	A:2	90	
13	B001339	Law and Economics [nl] <i>Ben Depoorter -- Department of Interdisciplinary Study of Law, Private Law and Business Law</i> <a href="#">Indicative price: € 40</a>	3	A:2	90	
14	F000933	Environmental Economics [nl] <i>Johan Albrecht -- Department of Economics</i> <a href="#">Indicative price: € 35</a>	4	A:1	120	
15	E075310	Ethics, Engineering and Society [nl] <i>Seppe Segers -- Department of Philosophy and Moral Sciences</i> <a href="#">Indicative price: unknown</a>	3	A:2	90	
16	D012535	Health Economics [nl] <i>Dominique Vandijck -- Department of Public Health and Primary Care</i> <a href="#">Indicative price: € 30</a>	5	A:1	150	
17	H001977	Coaching and Diversity [nl] <i>Elisabeth De Schauwer -- Department of Special Education</i> <a href="#">Indicative price: € 0</a>	3	UKV	A:J	90
18	D002354	Movement and Sports: Now and Later [nl] <i>Veerle Segers -- Department of Movement and Sports Sciences</i> <a href="#">Indicative price: € 50</a>	3	UKV	A:2	90
19	F000750	Labour and Employment [nl] <i>Stijn Baert -- Department of Economics</i> <a href="#">Indicative price: € 9</a>	6	A:1	180	

### 3.3

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

Nr	Course	CRDT	Ref	MT1	Session	Study
1	H002476 Powerful Learning Environments [nl] <i>Bram De Wever -- Department of Educational Studies</i> <a href="#">Indicative price: € 50</a>	6			A:1	180
2	H002478 The Student: Development and Motivation [nl] <i>Wim Beyers -- Department of Developmental, Personality and Social Psychology</i> <a href="#">Indicative price: € 75</a>	6			A:1	180
3	H002477 The Teacher within Class, School and Society [nl] <i>Melissa Tuytens -- Department of Educational Studies</i> <a href="#">Indicative price: € 50</a>	6			A:2	180

## 4 Master's Dissertation

24 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	F000612 Master's Dissertation <a href="#">Indicative price: € 0</a>	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 2026-2027	f: annually, from 2027-2028	i: annually, from 2028-2029
b: tri-annually	d: bi-annually, from 2026-2027	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

## 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.