



## Faculty of Economics and Business Administration

### Master of Science in Business Engineering -- Operations Management

Language of instruction: English

Programme version 9

#### 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>	6		1	A:1	180
2	F000896 Technology for the Circular Economy <i>Ramon Ganigüé -- Department of Biotechnology</i>	5		1	A:2	150
3	F000671 Human Resources Management <i>Dirk Buyens -- Department of Marketing, Innovation and Organisation</i>	5		1	A:2	150
4	F000124 System Dynamics <i>Mia Loccufier -- Department of Electromechanical, Systems and Metal Engineering</i>	5		1	A:1	150
5	F000699 Business-to-business Marketing <i>Steve Muylle -- Department of Marketing, Innovation and Organisation</i>	6		1	A:1	180
6	F000700 Managing Service Organisations <i>Paul Gemmel -- Department of Marketing, Innovation and Organisation</i>	4		2	B:2	120
7	F000897 Enterprise Architecture <i>Geert Poels -- Department of Business Informatics and Operations Management</i>	4		2	A:1	120
8	F000892 Innovation Management <i>Katrien Verleye -- Department of Marketing, Innovation and Organisation</i>	3		2	A:2	90
9	F000778 Business Process Management <i>Frederik Gailly -- Department of Business Informatics and Operations Management</i>	4		1	A:2	120
10	F000704 Financing High Tech Entrepreneurial Companies <i>Miguel Meuleman -- Department of Accounting, Corporate Finance and Taxation</i>	4		2	B:1	120
11	F000891 Technology Entrepreneurship <i>Johan Verrué -- Department of Marketing, Innovation and Organisation</i>	4		2	A:1	120

#### 2 Courses Related to the Main Subject 34 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	F000706 Advanced Production Management <i>Veronique Limère -- Department of Business Informatics and Operations Management</i>	6		1	A:2	180
2	F000707 Project Management <i>Mario Vanhoucke -- Department of Business Informatics and Operations Management</i>	6		1	A:1	180
3	F000899 Quality Management <i>Dries Goossens -- Department of Business Informatics and Operations Management</i>	6		1	B:1	180
4	F000941 Simulation Modelling and Analysis <i>Braes Maenhout -- Department of Business Informatics and Operations Management</i>	4		1	A:2	120
5	F000710 Supply Chain Management <i>Louis-Philippe Kerkhove -- Department of Business Informatics and Operations Management</i>	6		2	A:2	180
6	F000836 Decision Making for Business <i>Mario Vanhoucke -- Department of Business Informatics and Operations Management</i>	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	F000712	Analytical Customer Relationship Management <i>Dirk Van den Poel -- Department of Marketing, Innovation and Organisation</i>	6			A:1	180
2	F000942	Machine Learning <i>Dries Benoit -- Department of Marketing, Innovation and Organisation</i>	6			A:1	180
3	F000801	Predictive and Prescriptive Analytics <i>Matthias Bogaert -- Department of Marketing, Innovation and Organisation</i>	6			A:2	180
4	F000802	Big Data <i>Dirk Van den Poel -- Department of Marketing, Innovation and Organisation</i>	6			A:1	180
5	F000683	Investment Analysis <i>Michael Frömmel -- Department of Economics</i>	6			A:1	180
6	F000898	Business Valuation <i>Leentje Moortgat -- Department of Accounting, Corporate Finance and Taxation</i>	4			A:2	120
7	F001006	Management Accounting and Control <i>Sophie Maussen -- Department of Accounting, Corporate Finance and Taxation</i>	4			A:2	120
8	F000717	Financial Risk Management <i>Frank De Jonghe -- Department of Economics</i>	6			A:1	180
9	F000676	Econometrics: Time Series Analysis <i>Gerdie Everaert -- Department of Economics</i>	6			A:1	180
10	F000920	Networks in Socio-Economic Systems <i>Luis Enrique Correa da Rocha -- Department of Economics</i>	6			A:2	180
11	F000918	Deep Learning <i>Seppe vanden Broucke -- Department of Business Informatics and Operations Management</i>	6			A:2	180
12	F000889	Internship [nl, en] <i>Frederik Gally</i>	6			A:J	180
13	E016330	Artificial Intelligence <i>Aleksandra Pizurica -- Department of Telecommunications and Information Processing</i>	6			A:1	180
14	I002700	Clean Technology <i>Sophie Huysveld -- Department of Green Chemistry and Technology</i>	5			A:1	150
15	E065460	Rational Use of Materials <i>Tom Depover -- Department of Materials, Textiles and Chemical Engineering</i>	5			A:1	150
16	E004153	Heuristics and Search Methods <i>Sidharta Gautama -- Department of Industrial Systems Engineering and Product Design</i>	3			A:1	90
17	E076380	Methods Engineering and Work Measurement <i>Dieter Claeys -- Department of Industrial Systems Engineering and Product Design</i>	6			A:2	180
18	E004720	Network Modelling and Design <i>Mario Pickavet -- Department of Information Technology</i>	4			B:2	120
19	E060240	Quality Engineering and Industrial Statistics <i>Stijn De Vuyst -- Department of Industrial Systems Engineering and Product Design</i>	6			A:2	180
20	E011320	Queueing Theory <i>Joris Walraevens -- Department of Telecommunications and Information Processing</i>	6			A:1	180
21	E005770	Total Plant Automation	6				180
22	E018130	NoSQL Databases <i>Antoon Bronseelaer -- Department of Telecommunications and Information Processing</i>	3			A:2	90
23	E018700	Data Quality <i>Antoon Bronseelaer -- Department of Telecommunications and Information Processing</i>	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>	6			A:1	180
2	F000764	Economics of Financial Markets <i>William De Vijlder -- Department of Economics</i>	6			A:1	180
3	F000687	Advanced Econometrics: Non-Linear Methods <i>Gerdie Everaert -- Department of Economics</i>	6			A:2	180

4	F000118	Advanced Microeconomics: Game Theory and Asymmetric Information <i>Dirk Van de gaer -- Department of Economics</i>	6	A:1	180	
5	F000628	Microeconomics: Decision Theory <i>Dirk Van de gaer -- Department of Economics</i>	6	B:1	180	
6	F000196	Monetary Economics [nl] <i>Gert Peersman -- Department of Economics</i>	5	A:1	150	
7	F000935	Ecological Economics <i>Brent Bleyen -- Department of Economics</i>	6	A:2	180	
8	F000653	Insurances [nl] <i>Thomas Verheyen -- Department of Interdisciplinary Study of Law, Private Law and Business Law</i>	6	A:1	180	
9	F000640	Audit <i>Anschel De Wolf -- Department of Accounting, Corporate Finance and Taxation</i>	6	A:1	180	
10	F000688	Management Control <i>Sophie Hoozé -- Department of Accounting, Corporate Finance and Taxation</i>	6		180	
11	F000852	Taxation [nl] <i>Annelies Roggeman -- Department of Accounting, Corporate Finance and Taxation</i>	5	A:2	150	
12	F000694	Advanced Financial Statement Analysis <i>Line Vyvey -- Department of Accounting, Corporate Finance and Taxation</i>	6	A:1	180	
13	F000696	Market Research Methods <i>Hendrik Slabbinck -- Department of Marketing, Innovation and Organisation</i>	6	A:1	180	
14	F000859	Corporate Social Responsibility [nl] <i>Saskia Crucke -- Department of Marketing, Innovation and Organisation</i>	3	A:2	90	
15	B001339	Law and Economics [nl] <i>Ben Depoorter -- Department of Interdisciplinary Study of Law, Private Law and Business Law</i>	3	A:2	90	
16	F000933	Environmental Economics [nl] <i>Johan Albrecht -- Department of Economics</i>	4	A:1	120	
17	E075310	Ethics, Engineering and Society [nl] <i>Seppe Segers -- Department of Philosophy and Moral Sciences</i>	3	A:2	90	
18	D012535	Health Economics [nl] <i>Dominique Vandijck -- Department of Public Health and Primary Care</i>	5	A:1	150	
19	H001977	Coaching and Diversity [nl] <i>Elisabeth De Schauwer -- Department of Special Education</i>	3	UKV	A:J	90
20	D002354	Movement and Sports: Now and Later [nl] <i>Veerle Segers -- Department of Movement and Sports Sciences</i>	3	UKV	A:2	90
21	K001339	Sustainability Thinking [nl] <i>Thomas Block -- Department of Political Sciences</i>	5	UKV	A:J	150

### 3.3 Keuzeopleidingsonderdelen onderwijs

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>	6			A:1	180
2	H002196	Classroom Management and Reflection [nl] <i>Melissa Tuytens -- Department of Educational Studies</i>	4			A:2	120
3	H002197	The Teacher within School and Society [nl] <i>Melissa Tuytens -- Department of Educational Studies</i>	4			A:1	120
4	H002198	Psychology of Adolescence [nl] <i>Wim Beyers -- Department of Developmental, Personality and Social Psychology</i>	4			A:1	120

### 4 Master's Dissertation

24 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
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 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 2024-2025	f: annually, from 2025-2026	i: annually, from 2026-2027
b: tri-annually	d: bi-annually, from 2024-2025	g: bi-annually, from 2025-2026	j: bi-annually, from 2026-2027
	e: tri-annually, from 2024-2025	h: tri-annually, from 2025-2026	k: tri-annually, from 2026-2027