

Faculty of Economics and Business Administration  
 Master of Science in Business Engineering -- Operations Management

Language of instruction: English

Programme version 7

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 Locufier -- 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		1	A:1	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		2	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>Tarik Aouam -- 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	A:2	180
4	F000941	Simulation Modelling and Analysis <i>Broos Maenhout -- Department of Business Informatics and Operations Management</i>	4		1	A:2	120
5	F000710	Supply Chain Management <i>Tarik Aouam -- 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
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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:1	120
7	F000020	Management Accounting [nl] <i>Sophie Hoozée -- Department of Accounting, Corporate Finance and Taxation</i>	4			A:1	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>Joni Dambre -- Department of Electronics and Information Systems</i>	6			A:2	180
12	F000889	Internship [nl, en] <i>Ignace De Beelde</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>Pieter Nachtergael -- 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	E004152	Heuristics and Search Methods <i>Sidharta Gautama -- Department of Industrial Systems Engineering and Product Design</i>	4			A:1	120
17	E076380	Methods Engineering and Work Measurement <i>Dieter Claeys -- Department of Industrial Systems Engineering and Product Design</i>	6			A:1	180
18	E018441	Advanced Databases [nl] <i>Antoon Bronselaer -- Department of Telecommunications and Information Processing</i>	6			A:1	180
19	E076340	Information Technology and Data Processing <i>Jan Aelterman -- Department of Telecommunications and Information Processing</i>	6			B:2	180
20	E004720	Network Modelling and Design <i>Mario Pickavet -- Department of Information Technology</i>	4			B:2	120
21	E060240	Quality Engineering and Industrial Statistics <i>Stijn De Vuyst -- Department of Industrial Systems Engineering and Product Design</i>	6			A:2	180
22	E011320	Queueing Theory <i>Joris Walraevens -- Department of Telecommunications and Information Processing</i>	6			B:1	180
23	E017822	Software Architecture <i>Frank Gielen -- Department of Information Technology</i>	4				120
24	E005770	Total Plant Automation <i>Johannes Cottyn -- Department of Industrial Systems Engineering and Product Design</i>	6			A:2	180

### 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 Vilder -- 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 Bleys -- Department of Economics</i>	6	A:2	180	
8	F000653	Insurances [nl] <i>Kristiaan Bernauw -- Department of Interdisciplinary Study of Law, Private Law and Business Law</i>	6	A:1	180	
9	F000640	Audit <i>Ignace De Beelde -- Department of Accounting, Corporate Finance and Taxation</i>	6	A:1	180	
10	F000688	Management Control <i>Sophie Hoozée -- Department of Accounting, Corporate Finance and Taxation</i>	6	A:2	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>Heidi Vander Bauwheide -- Department of Accounting, Corporate Finance and Taxation</i>	6	A:1	180	
13	F000696	Market Research Methods <i>Patrick Van Kenhove -- 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>Guido Pennings -- 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 2022-2023	f: annually, from 2023-2024	i: annually, from 2024-2025
b: tri-annually	d: bi-annually, from 2022-2023	g: bi-annually, from 2023-2024	j: bi-annually, from 2024-2025
	e: tri-annually, from 2022-2023	h: tri-annually, from 2023-2024	k: tri-annually, from 2024-2025