

Study Programme

Academic year 2021-2022

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 Johan Verrue Department of Marketing, Innovation and Organisation	6	1	A:1	180		
2	F000896	Technology for the Circular Economy Ramon Ganigué Department of Biotechnology	5	1	A:2	150		
3	F000671	Human Resources Management Dirk Buyens Department of Marketing, Innovation and Organisation	5	1	A:2	150		
4	F000124	System Dynamics Mia Loccufier Department of Electromechanical, Systems and Metal Engineering	5	1	A:1	150		
5	F000699	Business-to-business Marketing Steve Muylle Department of Marketing, Innovation and Organisation	6	1	A:1	180		
6	F000700	Managing Service Organisations Paul Gemmel Department of Marketing, Innovation and Organisation	4	1	A:1	120		
7	F000897	Enterprise Architecture Geert Poels Department of Business Informatics and Operations Management	4	2	A:1	120		
8	F000892	Innovation Management Katrien Verleye Department of Marketing, Innovation and Organisation	3	2	A:2	90		
9	F000778	Business Process Management Frederik Gailly Department of Business Informatics and Operations Management	4	2	A:2	120		
10	F000704	Financing High Tech Entrepreneurial Companies Miguel Meuleman Department of Accounting, Corporate Finance and Taxation	4	2	B:1	120		
11	F000891	Technology Entrepreneurship Johan Verrue Department of Marketing, Innovation and Organisation	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 Tarik Aouam Department of Business Informatics and Operations Management	6	1	A:2	180		
2	F000707	Project Management Mario Vanhoucke Department of Business Informatics and Operations Management	6	1	A:1	180		
3	F000899	Quality Management Dries Goossens Department of Business Informatics and Operations Management	6	1	A:2	180		
4	F000941	Simulation Modelling and Analysis Broos Maenhout Department of Business Informatics and Operations Management	4	1	A:2	120		
5	F000710	Supply Chain Management Tarik Aouam Department of Business Informatics and Operations Management	6	2	A:2	180		
6	F000836	Decision Making for Business Mario Vanhoucke Department of Business Informatics and Operations Management	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	2 Analytical Customer Relationship Management Dirk Van den Poel Department of Marketing, Innovation and Organisation	6	A:1	180			
2 F000942	2 Machine Learning Dries Benoit Department of Marketing, Innovation and Organisation	6	A:1	180			
3 F00080	Predictive and Prescriptive Analytics Matthias Bogaert Department of Marketing, Innovation and Organisation	6	A:2	180			
4 F000802	Page 12 Big Data Dirk Van den Poel Department of Marketing, Innovation and Organisation	6	A:1	180			
5 F000683	3 Investment Analysis Michael Frömmel Department of Economics	6	A:1	180			
6 F000898	Business Valuation Leentje Moortgat Department of Accounting, Corporate Finance and Taxation	4	A:1	120			
7 F000020	Management Accounting [nl] Sophie Hoozée Department of Accounting, Corporate Finance and Taxation	4	A:1	120			
8 F000717	Financial Risk Management Frank De Jonghe Department of Economics	6	A:1	180			
9 F000676	Econometrics: Time Series Analysis Gerdie Everaert Department of Economics	6	A:1	180			
10 F000920	Networks in Socio-Economic Systems Luis Enrique Correa da Rocha Department of Economics	6	A:2	180			
11 F000918	B Deep Learning Joni Dambre Department of Electronics and Information Systems	6	A:2	180			
12 F000889	O Internship [nl, en] Ignace De Beelde	6	A:J	180			
13 E016330	Artificial Intelligence Aleksandra Pizurica Department of Telecommunications and Information Processing	6	A:1	180			
14 1002700	Clean Technology Pieter Nachtergaele Department of Green Chemistry and Technology	5	A:1	150			
15 E065460	Rational Use of Materials Tom Depover Department of Materials, Textiles and Chemical Engineering	5	A:1	150			
16 E004152	2 Heuristics and Search Methods Sidharta Gautama Department of Industrial Systems Engineering and Product Design	4	A:1	120			
17 E076380	Methods Engineering and Work Measurement Dieter Claeys Department of Industrial Systems Engineering and Product Design	6	A:1	180			
18 E01844	Advanced Databases [nl] Antoon Bronselaer Department of Telecommunications and Information Processing	6	A:1	180			
19 E076340	Information Technology and Data Processing Jan Aelterman Department of Telecommunications and Information Processing	6	B:2	180			
20 E004720	Network Modelling and Design Mario Pickavet Department of Information Technology	4	B:2	120			
21 E060240	Quality Engineering and Industrial Statistics Stijn De Vuyst Department of Industrial Systems Engineering and Product Design	6	A:2	180			
22 E011320	Queueing Theory Joris Walraevens Department of Telecommunications and Information Processing	6	B:1	180			
23 E017822	2 Software Architecture Frank Gielen Department of Information Technology	4		120			
24 E005770	Total Plant Automation Johannes Cottyn Department of Industrial Systems Engineering and Product Design	6	A:2	180			
3.2 Elective General Courses							
Subscribe to no more than 12 credit units from the following list.							
Nr Course 1 F000681	Economics of Banking Rudi Vander Vennet Department of Economics	CRDT Ref MT1 6	Session A:1	Study 180			

2	F000764	Economics of Financial Markets William De Vijlder Department of Economics	6			A:1	180
3	F000687	Advanced Econometrics: Non-Linear Methods Gerdie Everaert Department of Economics	6			A:2	180
4	F000118	Advanced Microeconomics: Game Theory and Asymmetric Information Dirk Van de gaer Department of Economics	6			A:1	180
5	F000628	Microeconomics: Decision Theory Dirk Van de gaer Department of Economics	6			B:1	180
6	F000196	Monetary Economics [nl] Gert Peersman Department of Economics	5			A:1	150
7	F000935	Ecological Economics Brent Bleys Department of Economics	6			A:2	180
8	F000653	Insurances [nl] Kristiaan Bernauw Department of Interdisciplinary Study of Law, Private Law and Business Law	6			A:1	180
9	F000640	Audit Ignace De Beelde Department of Accounting, Corporate Finance and Taxation	6			A:1	180
10	F000688	Management Control Sophie Hoozée Department of Accounting, Corporate Finance and Taxation	6			A:2	180
11	F000852	Taxation [nl] Annelies Roggeman Department of Accounting, Corporate Finance and Taxation	5			A:2	150
12	F000694	Advanced Financial Statement Analysis Heidi Vander Bauwhede Department of Accounting, Corporate Finance and Taxation	6			A:1	180
13	F000696	Market Research Methods Patrick Van Kenhove Department of Marketing, Innovation and Organisation	6			A:1	180
14	F000859	Corporate Social Responsibility [nl] Saskia Crucke Department of Marketing, Innovation and Organisation	3			A:2	90
15	B001339	Law and Economics [nl] Ben Depoorter Department of Interdisciplinary Study of Law, Private Law and Business Law	3			A:2	90
16	F000933	Environmental Economics [nl] Johan Albrecht Department of Economics	4			A:1	120
17	E075310	Ethics, Engineering and Society [nl] Guido Pennings Department of Philosophy and Moral Sciences	3			A:2	90
18	D012535	Health Economics [nl] Dominique Vandijck Department of Public Health and Primary Care	5			A:1	150
19	H001977	Coaching and Diversity [nl] Elisabeth De Schauwer Department of Special Education	3	UKV		A:J	90
20	D002354	Movement and Sports: Now and Later [nl] Veerle Segers Department of Movement and Sports Sciences	3	UKV		A:2	90
21	K001339	Sustainability Thinking [nl] Thomas Block Department of Political Sciences	5	UKV		A:J	150
3.3	3 Keuzeo	opleidingsonderdelen onderwijs					
	bscribe to no Course	more than 12 credit units from the following list.	CRDT	Ref	N/T1	Session	Study
1	H002169	Powerful Learning Environments [nl] Bram De Wever Department of Educational Studies	6	Kei	MT1	A:1	180
2	H002196	Classroom Management and Reflection [nl] Melissa Tuytens Department of Educational Studies	4			A:2	120
3	H002197	The Teacher within School and Society [nl] Melissa Tuytens Department of Educational Studies	4			A:1	120
4	H002198	Psychology of Adolescence [nl] Wim Beyers Department of Developmental, Personality and Social Psychology	4			A:1	120
4	4 Master's Dissertation 24 credits						
Mr	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 cours name, using the following ISO codes:

bg: Bulgarian de: German es: Spanish ja: Japanese pl: Polish sh: Kroatian/Serbian zh: Chinese cs: Czech el: Greek fr: French nl: Dutch pt: Portuguese sl: Slovene

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 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 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