

Faculty of Economics and Business Administration

Master of Science in Business Engineering (Double Degree) -- Operations Management

Language of instruction: English

Programme version 4

1 General Courses

Subscribe to 1 module from the following list. Subject to approval by the faculty.

1.1 With the Master in Service Engineering and Management (University of Porto) 120 credits

1.1.1 First year (Ghent University) 60 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	F000442 Strategic Management <i>Johan Verrue -- Department of Marketing, Innovation and Organisation</i>	6		1	A:1	180
2	F000896 Technology for the Circular Economy <i>Tom Van de Wiele -- Department of Biotechnology</i>	5		1	A:2	150
3	F000124 System Dynamics <i>Mia Locuffier -- Department of Electromechanical, Systems and Metal Engineering</i>	5		1	A:1	150
4	F000700 Managing Service Organisations <i>Kaat De Pourcq -- Department of Marketing, Innovation and Organisation</i>	4		1	B:2	120
5	F000706 Advanced Production Management <i>Veronique Limère -- Department of Business Informatics and Operations Management</i>	6		1	A:2	180
6	F000707 Project Management <i>Mario Vanhoucke -- Department of Business Informatics and Operations Management</i>	6		1	A:1	180
7	F000899 Quality Management <i>Dries Goossens -- Department of Business Informatics and Operations Management</i>	6		1	B:1	180
8	F000941 Simulation Modelling and Analysis <i>Broos Maenhout -- Department of Business Informatics and Operations Management</i>	4		1	A:2	120
9	F000710 Supply Chain Management <i>Louis-Philippe Kerkhove -- Department of Business Informatics and Operations Management</i>	6		1	A:2	180
10	F000836 Decision Making for Business <i>Mario Vanhoucke -- Department of Business Informatics and Operations Management</i>	6		1	A:1	180

1.1.1.1 Elective: Master in Business Engineering Operations Management

Subscribe to 6 credit units from module 3, distributed over the first standard learning path as follows: 6 credit units in year 1.

[Elective Course of the master in Business Engineering Operations Management](https://studiekiezer.ugent.be/2025/master-of-science-in-business-engineering-operations-management-en/programma)

(<https://studiekiezer.ugent.be/2025/master-of-science-in-business-engineering-operations-management-en/programma>)

1.1.2 Second year - first semester (University of Porto) 30 credits

Subscribe to 30 credit units from the following list.

Nr	Course	CRDT	Ref	MT1	Session	Study
1	F001038 Business Process Modeling <i>External Lecturer -- University of Porto</i>	6		2	A:1	180
2	F001039 Programming <i>External Lecturer -- University of Porto</i>	5		2	A:1	150
3	F001040 Human Computer Interaction <i>External Lecturer -- University of Porto</i>	6		2	A:1	180
4	F001041 Creativity <i>External Lecturer -- University of Porto</i>	6		2	A:1	180

5	F001042	Decision Support Systems <i>External Lecturer -- University of Porto</i>	6	2	A:1	180
6	F001043	New Service Development and Design <i>External Lecturer -- University of Porto</i>	6	2	A:1	180
7	F001044	Information Systems Architecture <i>External Lecturer -- University of Porto</i>	6	2	A:1	180
8	F001045	Customer Relationship Management <i>External Lecturer -- University of Porto</i>	6	2	A:1	180
9	F001046	Technology Entrepreneurship Lab <i>External Lecturer -- University of Porto</i>	6	2	A:1	180

1.1.3 Second year - second semester (Ghent University)

30 credits

1.1.3.1 Master's dissertation

Nr	Course	CRDT	Ref	MT1	Session	Study
1	F000612 Master's Dissertation	24		2	A:J	720

1.1.3.2 Elective: Master in Business Engineering Operations Management

Subscribe to 6 credit units from module 3, distributed over the first standard learning path as follows: 6 credit units in year 2.

[Elective Course of the master in Business Engineering Operations Management](#)

(<https://studiekiezer.ugent.be/2025/master-of-science-in-business-engineering-operations-management-en/programma>)

1.2 With the Master in Business Engineering (University of Liège)

120 credits

1.2.1 First year (University Liège)

60 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	F001047 Logistics and Transportation <i>External Lecturer -- University of Liège</i>	5		1	A:2	150
2	F001048 Operations Planning <i>External Lecturer -- University of Liège</i>	5		1	A:2	150
3	F001049 Business Analytics <i>External Lecturer -- University of Liège</i>	5		1	A:2	150
4	F001050 Scientific Methods in Management <i>External Lecturer -- University of Liège</i>	5		1	A:J	150
5	F001051 Web and Text Analytics <i>External Lecturer -- University of Liège</i>	5		1	A:1	150
6	F001052 International Strategy <i>External Lecturer -- University of Liège</i>	5		1	A:1	150
7	F001053 ERP Solutions for Supply Chains <i>External Lecturer -- University of Liège</i>	5		1	A:1	150
8	F001054 Distribution Management <i>External Lecturer -- University of Liège</i>	5		1	A:1	150

1.2.1.1 Elective

Subscribe to 20 credit units from the following list, with

- 10 credit units from the courses with reference a,
- 5 credit units from the courses with reference b,
- 5 credit units from the courses with reference c.

Nr	Course	CRDT	Ref	MT1	Session	Study
1	F001055 International Business Engineering Seminar <i>External Lecturer -- University of Liège</i>	5	a	1	A:1	150
2	F001056 International Marketing Seminar <i>External Lecturer -- University of Liège</i>	5	a	1	A:1	150
3	F001057 E-commerce Methods and Techniques <i>External Lecturer -- University of Liège</i>	5	a	1	A:1	150
4	F001058 Environmental Management <i>External Lecturer -- University of Liège</i>	5	a	1	A:1	150
5	F001059 Sustainable Finance <i>External Lecturer -- University of Liège</i>	5	b	1	A:2	150
6	F001060 Life Cycle Management <i>External Lecturer -- University of Liège</i>	5	b	1	A:2	150

7	F001061	Reporting and Metrics for Sustainability <i>External Lecturer -- University of Liège</i>	5	b	1	A:2	150
8	F001062	Information Technology Management <i>External Lecturer -- University of Liège</i>	5	c	1	A:2	150
9	F001063	Forecasting and Microsimulation <i>External Lecturer -- University of Liège</i>	5	c	1	A:2	150
10	F001064	Projects Technologiques Innovants <i>External Lecturer -- University of Liège</i>	5	c	1	A:2	150

1.2.2 Second year (Ghent University)

60 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	F000700 Managing Service Organisations <i>Kaat De Pourcq -- Department of Marketing, Innovation and Organisation</i>	4		2	B:2	120
2	F000897 Enterprise Architecture <i>Geert Poels -- Department of Business Informatics and Operations Management</i>	4		2	A:1	120
3	F000941 Simulation Modelling and Analysis <i>Broos Maenhout -- Department of Business Informatics and Operations Management</i>	4		2	A:2	120
4	F000778 Business Process Management <i>Michaël Verdonck -- Department of Business Informatics and Operations Management</i>	4		2	A:2	120
5	F000704 Financing High Tech Entrepreneurial Companies <i>Miguel Meuleman -- Department of Accounting, Corporate Finance and Taxation</i>	4		2	B:1	120
6	F000891 Technology Entrepreneurship <i>Johan Verrue -- Department of Marketing, Innovation and Organisation</i>	4		2	A:1	120
7	F000710 Supply Chain Management <i>Louis-Philippe Kerkhove -- Department of Business Informatics and Operations Management</i>	6		2	A:2	180
8	F000836 Decision Making for Business <i>Mario Vanhoucke -- Department of Business Informatics and Operations Management</i>	6		2	A:1	180

1.2.2.1 Master's dissertation

Nr	Course	CRDT	Ref	MT1	Session	Study
1	F000612 Master's Dissertation	24		2	A:J	720

1.3 With the Master of Innovation and Technology Management (University of Tartu)

120 credits

1.3.1 First year - first semester (University of Tartu)

30 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	F001065 Innovation Management <i>External Lecturer -- University of Tartu</i>	6		1	A:1	180
2	F001066 Business Analysis <i>External Lecturer -- University of Tartu</i>	6		1	A:1	180
3	F001067 Innovative Organization and Entrepreneurship <i>External Lecturer -- University of Tartu</i>	6		1	A:1	180
4	F001068 Requirement Engineering <i>External Lecturer -- University of Tartu</i>	6		1	A:1	180
5	F001069 Business Growth Strategies <i>External Lecturer -- University of Tartu</i>	6		1	A:1	180

1.3.2 First year - second semester (Ghent University)

28 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	F000896 Technology for the Circular Economy <i>Tom Van de Wiele -- Department of Biotechnology</i>	5		1	A:2	150
2	F000706 Advanced Production Management <i>Veronique Limère -- Department of Business Informatics and Operations Management</i>	6		1	A:2	180
3	F000941 Simulation Modelling and Analysis <i>Broos Maenhout -- Department of Business Informatics and Operations Management</i>	4		1	A:2	120

1.3.2.1 Elective: Master in Business Engineering Operations Management

Subscribe to 13 credit units from module 3, distributed over the first standard learning path as follows: 13 credit units in year 1.
[Elective Course of the master in Business Engineering Operations Management](https://studiekiezer.ugent.be/2025/master-of-science-in-business-engineering-operations-management-en/programma)
<https://studiekiezer.ugent.be/2025/master-of-science-in-business-engineering-operations-management-en/programma>

Nr	Course	CRDT	Ref	MT1	Session	Study
1	F000700 Managing Service Organisations <i>Kaat De Pourcq -- Department of Marketing, Innovation and Organisation</i>	4		2	B:2	120
2	F000704 Financing High Tech Entrepreneurial Companies <i>Miguel Meuleman -- Department of Accounting, Corporate Finance and Taxation</i>	4		2	B:1	120
3	F000699 Business-to-business Marketing <i>Steve Muylle -- Department of Marketing, Innovation and Organisation</i>	6		2	A:1	180
4	F000707 Project Management <i>Mario Vanhoucke -- Department of Business Informatics and Operations Management</i>	6		2	A:1	180
5	F000836 Decision Making for Business <i>Mario Vanhoucke -- Department of Business Informatics and Operations Management</i>	6		2	A:1	180
6	F000710 Supply Chain Management <i>Louis-Philippe Kerkhove -- Department of Business Informatics and Operations Management</i>	6		2	A:2	180
7	F000899 Quality Management <i>Dries Goossens -- Department of Business Informatics and Operations Management</i>	6		2	B:1	180

1.3.3.1 Master's dissertation

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 2027-2028	f: annually, from 2028-2029	i: annually, from 2029-2030
b: tri-annually	d: bi-annually, from 2027-2028	g: bi-annually, from 2028-2029	j: bi-annually, from 2029-2030
	e: tri-annually, from 2027-2028	h: tri-annually, from 2028-2029	k: tri-annually, from 2029-2030