

Study Programme

Academic year 2024-2025

Faculty of Engineering and Architecture

Master of Science in Industrial Engineering and Operations Research -- Sustainable Mobility Analytics

Language of instruction: English

Indicative price: € 0

E005741 Simulation of Stochastic Systems

Programme version 1

1	General	Courses				36 (credits
Ur	ban Mobility I	inable Mobility Analytics in the Master of Science in Industrial Engineering Master School. It may only be taken by students as part of a double degree in the mobility scheme and subject to the requirements of the entry and exit	with one the i				
Nr						Session	Study
1	E004255	Operations Research Models and Methods	6		1	A:1	180
		El-Houssaine Aghezzaf Department of Industrial Systems Engineering	and Product D	esign			

		Stijn De Vuyst Department of Industrial Systems Engineering	and Product Design			
		Indicative price: € 0				
3	E018321	Algorithmic Programming	6	1	A:1	180
		Pieter Leyman Department of Industrial Systems Engineering	and Product Design			

A:1

180

Indicative price: € 0

4 E076951 Engineering Economy 6 1 A:1 180
Sofie Verbrugge -- Department of Information Technology
Indicative price: € 60

5 E076341 Information Technology for Industrial Engineering 3 1 A:2 90
Michiel Vlaminck -- Department of Telecommunications and Information Processing
Indicative price: € 0

Heuristics and Search Methods 3 2 A:1 90
Sidharta Gautama -- Department of Industrial Systems Engineering and Product Design
Indicative price: € 0

E004241 Industrial Systems Modelling and Optimization 6 2 A:2 180
 EI-Houssaine Aghezzaf -- Department of Industrial Systems Engineering and Product Design
 Indicative price: € 0

2 Courses Related to the Main Subject 65 credits

Nr	Course		CRDT	Ref MT1	Session	Study
1	E084390	Traffic Flow Modelling Dieter Fiems Department of Telecommunications and Information Processin Indicative price: € 0	6 ng	1	A:1	180
2	E084460	Design of Urban Services Sidharta Gautama Department of Industrial Systems Engineering and Produ Indicative price: unknown	6 uct Design	1	A:2	180
3	E084480	Advanced Topics in Traffic and Logistics Ivana Semanjski Department of Industrial Systems Engineering and Product Indicative price: € 345	4 t Design	1	A:2	120
4	E076460	Dare to Venture Johan Verrue Department of Marketing, Innovation and Organisation Indicative price: unknown	4	1	A:2	120
5	E084440	Summer School on Transportation Indicative price: unknown	3	2	A:1	90
6	C004177	Spatiotemporal Analysis and Modelling Nico Van de Weghe Department of Geography	5	2		150
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9	E099300	Industry Internship Engineering and Architecture [en, nl] Patrick Segers Department of Electronics and Information Systems Indicative price: unknown	6	2	A:J	180
8	E076471	Dare to Start Frank Gielen Department of Information Technology Indicative price: unknown	3	2	A:2	90
7	E018240	Big Data Technology Dieter De Witte Department of Electronics and Information Systems Indicative price: € 0	4	2	A:1	120
		Indicative price: € 0				

2.1 Master's Dissertation 24 credits

Ν	lr Course		CRDT	Ref MT1	Session	Study
1	E091103	Master's Dissertation	24	2	B:J	720
		Indicative price: unknown				

3 Elective Courses 19 credits

The student takes 19 credits of elective courses from the study programme of the Master of Science in Industrial Engineering and Operations Research, in accordance with the mobility schedule and the conditions of the entry and exit university, under the double degree agreement.

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 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 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 2025-2026 f: annually, from 2026-2027 i: annually, from 2027-2028 g: bi-annually, from 2026-2027 g: bi-annually, from 2026-2027 g: bi-annually, from 2027-2028 e: tri-annually, from 2025-2026 h: tri-annually, from 2026-2027 k: tri-annually, from 2027-2028

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.

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