

Study Programme

Academic year 2025-2026

Faculty of Engineering and Architecture

E005741 Simulation of Stochastic Systems

Indicative price: € 60

Stijn De Vuyst -- Department of Industrial Systems Engineering and Product Design

El-Houssaine Aghezzaf -- Department of Industrial Systems Engineering and Product Design

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

Language of instruction: English

Programme version 2

1	Genera	Courses				36	credits
th	e <u>EIT Urban I</u>	ct Sustainable Mobility Analytics in the Master of Science in Industrial Engir Mobility Master School. It can only be followed by students as part of a doub cordance with the mobility scheme and subject to the requirements of the en	le degree w	ith one t	he interuniv		
Ν			CRDT	Ref		Session	Study
1	E004255	Operations Research Models and Methods	6		1	A:1	180
		El-Houssaine Aghezzaf Department of Industrial Systems Engineering and Product Design					
		Indicative price: € 60					

		Indicative price: € 0				
3	E076951	Engineering Economy	6	1	A:1	180
		Sofie Verbrugge Department of Information Technology				

6

A:1

180

4 E004153 Heuristics and Search Methods 3 1 A:2 90

Sidharta Gautama -- Department of Industrial Systems Engineering and Product Design

Indicative price: € 0

5 E076341 Information Technology for Industrial Engineering 3 1 A:2 90

Michiel Vlaminck -- Department of Telecommunications and Information Processing

Indicative price: € 0

5 E018321 Algorithmic Programming

Pieter Leyman -- Department of Industrial Systems Engineering and Product Design

Pieter Leyman -- Department of Industrial Systems Engineering and Product Design
Indicative price: € 0

E004241 Industrial Systems Modelling and Optimization 6 2 A:2 180

Indicative price: € 219

Courses Related to the Main Subject 61 credits

Nr	Course		CRDT	Ref MT1	Session	Study
1	C003534	Urban Mobility and Logistics Giovanni Circella Department of Geography Indicative price: € 0	5	1	A:1	150
2	E084460	Design of Urban Services Sidharta Gautama Department of Industrial Systems Engineering and Product Design Indicative price: unknown	6	1	A:2	180
3	F001022	Dare to Venture Johan Verrue Department of Marketing, Innovation and Organisation Indicative price: unknown	4	1	A:2	120
4	E084390	Traffic Flow Modelling Dieter Flems Department of Telecommunications and Information Processing Indicative price: € 0	6	1	A:1	180
5	E084440	Summer School on Transportation Indicative price: unknown	3	2	A:1	90
6	E076471	Dare to Start Wouter Haerick Department of Information Technology	3	2	A:2	90
27	-07-2025	23:40				p 1

7	E084480	Advanced Topics in Traffic and Logistics Ivana Semanjski Department of Industrial Systems Engineering and Product Design Indicative price: € 345	4	2	A:2	120
8	E099300	Industry Internship Engineering and Architecture [en, nl] Patrick Segers Department of Electronics and Information Systems Indicative price: unknown	6	2	A:J	180

2.1 Master's Dissertation

24 credits

Νı			CRDT R		Session	Study
1	E091103	Master's Dissertation	24	2	B:J	720
		Indicative price: unknown				

3 Courses Related to the Main Subject

Students subscribe to the courses from one of the tracks below, in accordance with the mobility scheme and subject to the requirements of the entry and exit university.

3.1 Track Data Analytics

5 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	C004177	Spatiotemporal Analysis and Modelling	5		2	A:1	150
		Nico Van de Weghe Department of Geography					
		Indicative price: € 0					

3.2 Track Urban Mobility Transitions

7 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	E084710	Planning Theory: Contemporary Challenges Tim Devos Department of Civil Engineering Indicative price: € 0	4		1	A:2	120
2	E086621	Planning and Transition: Mobility Koos Fransen Department of Civil Engineering Indicative price: unknown	3		2	A:1	90

4 Elective Courses

The student subscribes to 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:

- 18 credit units in the Track Data Analytics
- 16 credit units in the Track Urban Mobility Transitions

Programme related study costs

None

27-07-2025 23:40 p 2

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 fr: French nl: Dutch pt: Portuguese el: Greek sl: Slovene ru: Russian da: Danish en: English it: Italian no: Norwegian 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 2026-2027 f: annually, from 2027-2028 i: annually, from 2028-2029 d: bi-annually, from 2026-2027 g: bi-annually, from 2027-2028 j: bi-annually, from 2028-2029 b: tri-annually e: tri-annually, from 2026-2027 h: tri-annually, from 2027-2028 k: tri-annually, from 2028-2029

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.

27-07-2025 23:40 p 3