

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

Programme version 1

1	General	Courses			36 c	credits
The track Sustainable Mobility Analytics in the Master of Science in Industrial Engineering and Operations Research is part of the <u>EIT</u> <u>Urban Mobility Master School</u> . It may only be taken by students as part of a double degree with one the interuniversity partners, in accordance with the mobility scheme and subject to the requirements of the entry and exit university.						
Nr	Course		CRDT Ref	MT1	Session	Study
1	E004255	Operations Research Models and Methods <i>El-Houssaine Aghezzaf Department of Industrial Systems Engineering and Product Design</i> Indicative price: $\in 0$	6	1	A:1	180
2	E005741	Simulation of Stochastic Systems Stijn De Vuyst Department of Industrial Systems Engineering and Product Design Indicative price: $\in 0$	6	1	A:1	180
3	E018321	Algorithmic Programming Pieter Leyman Department of Industrial Systems Engineering and Product Design Indicative price: $\in 0$	6	1	A:1	180
4	E076951	Engineering Economy Sofie Verbrugge Department of Information Technology Indicative price: € 60	6	1	A:1	180
5	E076341	Information Technology for Industrial Engineering Michiel Vlaminck Department of Telecommunications and Information Processing Indicative price: $\in 0$	3	1	A:2	90
6	E004153	Heuristics and Search Methods Sidharta Gautama Department of Industrial Systems Engineering and Product Design Indicative price: $\in 0$	3	2	A:1	90
7	E004241	Industrial Systems Modelling and Optimization <i>El-Houssaine Aghezzaf</i> Department of Industrial Systems Engineering and Product Design Indicative price: $\in 0$	6	2	A:2	180
2	Courses	s Related to the Main Subject			65 c	credits
Nr	Course		CRDT Ref	MT1	Session	Study
1	E084390	Traffic Flow Modelling <i>Dieter Fiems Department of Telecommunications and Information Processing</i> <u>Indicative price: $\in 0$</u>	6	1	A:1	180
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	E084480	Advanced Topics in Traffic and Logistics Ivana Semanjski Department of Industrial Systems Engineering and Product Design Indicative price: € 345	4	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	3	2	A:1	90
6	C004177	Spatiotemporal Analysis and Modelling Nico Van de Weghe Department of Geography	5	2		150
01-07-2025 17:40 p 1						

	Indicative price: € 0				
7 E018	240 Big Data Technology	4	2	A:1	120
	Dieter De Witte Department of Electronics and Information Systems Indicative price: $\in 0$				
8 E076		3	2	A:2	90
0 2070	Wouter Haerick Department of Information Technology	5	2	n.2	30
	Indicative price: unknown				
9 E099		6	2	A:J	180
	Patrick Segers Department of Electronics and Information Systems Indicative price: unknown				
0.4 Ма				24	ara dita
2.1 1012	ster's Dissertation			24	credits
Nr Cours	se	CRDT R	ef MT1	Session	Study
1 E091		24	2	B:J	720
	Indicative price: unknown				
3 Elec	tive 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:

cs: Czech el: Greek fr: French nl: Dutch pt: Portuguese sl: Slovene da: Danish en: English it: Italian no: Norwegian ru: Russian sv: Swedish	h: Chinese
---	------------

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 b: tri-annually	c: annually, from 2025-2026 d: bi-annually, from 2025-2026 e: tri-annually, from 2025-2026	f: annually, from 2026-2027 g: bi-annually, from 2026-2027 h: tri-annually, from 2026-2027	i: annually, from 2027-2028 j: bi-annually, from 2027-2028 k: tri-annually, from 2027-2028
	e. In-annually, noni 2023-2026	11. 11-annually, 110111 2020-2027	K. III-annually, 110111 2027-2020

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.