

## Study Programme

Academic year 2023-2024

Faculty of Engineering and Architecture

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

Language of instruction: English

Programme version 1

	Genera	l Courses			36	credits
Jrb	an Mobility I	ninable Mobility Analytics in the Master of Science in Industrial Engineering a 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 interur	search is part niversity partn	of the <u>EIT</u> ers, in	
	Course		CRDT Ref	MT1	Session	Study
	E004255	Operations Research Models and Methods El-Houssaine Aghezzaf Department of Industrial Systems Engineering and Product Design	6	1	A:1	180
	E005741	Simulation of Stochastic Systems Stijn De Vuyst Department of Industrial Systems Engineering and Product Design	6	1	A:1	180
	E018321	Algorithmic Programming Birger Raa Department of Industrial Systems Engineering and Product Design	6	1	A:1	180
	E076951	Engineering Economy Sofie Verbrugge Department of Information Technology	6	1	A:1	180
	E076341	Information Technology for Industrial Engineering  Michiel Vlaminck Department of Telecommunications and Information Processing	3	1	A:2	90
	E004153	Heuristics and Search Methods Sidharta Gautama Department of Industrial Systems Engineering and Product Design	3	2	A:1	90
	E004241	Industrial Systems Modelling and Optimization El-Houssaine Aghezzaf Department of Industrial Systems Engineering and Product Design	6	2	A:2	180
	Courses	s Related to the Main Subject			65	credits
r	Course		CRDT Ref	MT1	Session	Study
	E084390	Traffic Flow Modelling  Dieter Fiems Department of Telecommunications and Information Processing	6	1	A:1	180
	E084460	Design of Urban Services Sidharta Gautama Department of Industrial Systems Engineering and Product Design	6	1	A:2	180
	E084480	Advanced Topics in Traffic and Logistics  Ivana Semanjski Department of Industrial Systems Engineering and Product Design	4	1	A:2	120
	E076460	Dare to Venture  Johan Verrue Department of Marketing, Innovation and Organisation	4	1	A:2	120
	E084440	Summer School on Transportation	3	2	A:1	90
	C004177	Spatiotemporal Analysis and Modelling Nico Van de Weghe Department of Geography	5	2	A:1	150
	E018240	Big Data Technology  Dieter De Witte Department of Electronics and Information Systems	4	2	A:1	120
	E076471	Dare to Start Frank Gielen Department of Information Technology	3	2	A:2	90
	E099300	Industry Internship Engineering and Architecture [en, nl] Patrick Segers Department of Electronics and Information Systems	6	2	A:J	180
. 1	Master	's Dissertation			24	credits
r	Course		CRDT Ref	MT1	Session	Study
r		Master's Dissertation	CRDT Ref 24	MT1 2	Session B:J	Stud 720

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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.

## 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 2024-2025 f: annually, from 2025-2026 i: annually, from 2026-2027 g: bi-annually, from 2025-2026 g: bi-annually, from 2025-2026 e: tri-annually, from 2024-2025 h: tri-annually, from 2025-2026 k: tri-annually, from 2026-2027

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