Study Programme

Academic year 2024-2025

Faculty of Engineering and Architecture

Master of Science in Machine and Production Automation Engineering Technology

Campus: Courtray

Language of instruction: Dutch

Programme version 2

1 General Courses — 27 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	E640300	Production Integration	6		1	A:1	180
		Dieter Vandenhoeke -- Department of Industrial Systems Engineering and Product Design					
2	E640700	Virtual Mechatronic Design	6		1	A:1	180
		Bart Vanwalleghem -- Department of Electromechanical, Systems and Metal Engineering					
3	E640200	Advanced Drive Systems [nl, en]	3		1	A:1	90
		Jeroen De Kooning -- Department of Electromechanical, Systems and Metal Engineering					
4	E640800	Production Optimization [nl, en]	6		1	A:2	180
		Johannes Cottyn -- Department of Industrial Systems Engineering and Product Design					
5	E640930	Mechatronics Projects	6		1	A:2	180
		Bart Vanwalleghem -- Department of Electromechanical, Systems and Metal Engineering					

2 Minors — 12 credits

Subscribe to 1 minor (12 credit units) from the following list. Subject to approval by the faculty.

2.1 Minor Smart Factories

Nr	Course		CRDT	Ref	MT1	Session	Study
1	E640400	Flexible Robot Applications [nl, en]	6			A:1	180
		Johannes Cottyn -- Department of Industrial Systems Engineering and Product Design					
2	E640900	Factories of the Future [nl, en]	6			A:2	180
		Johannes Cottyn -- Department of Industrial Systems Engineering and Product Design					

2.2 Minor Smart Machines

Nr	Course		CRDT	Ref	MT1	Session	Study
1	E640500	Machine Optimization [nl, en]	6			A:1	180
		Michael Monte -- Department of Electromechanical, Systems and Metal Engineering					
2	E640910	Machinery Fault Diagnosis [nl, en]	6			A:2	180
		Bram Vervisch -- Department of Electromechanical, Systems and Metal Engineering					

2.3 Minor Smart Technologies

Nr	Course		CRDT	Ref	MT1	Session	Study
1	E640600	Applied Machine Learning [nl, en]	6			A:1	180
		Sofie Van Hoecke -- Department of Electronics and Information Systems					
2	E640920	Computer Vision [nl, en]	6			A:2	180
		Steven Verstockt -- Department of Electronics and Information Systems					

3 Elective Courses — 3 credits

Subscribe to 3 credit units from the following list. Subject to approval by the faculty.

Nr	Course		CRDT	Ref	MT1	Session	Study
1	H001977	Coaching and Diversity	3	UKV		A:J	90
		Elisabeth De Schauwer -- Department of Special Education					
2	A003001	Academic English [en]	3	UKV		B:1, A:2	90
		Geert Jacobs -- Department of Linguistics					

Nr	Course		CRDT	Ref	MT1	Session	Study
3	E640940	Business Management	3			A:2	90
		Sofie Verbrugge -- Department of Information Technology					
4	E640950	Entrepreneurship and Marketing	3				90
5	E670000	Summer Course [en, nl]	3			A:1	90
		Steven Verstockt -- Department of Electronics and Information Systems					
6	E099600	Industry Internship Engineering Technology [en, nl]	3			B:J	90
		Patrick Segers -- Department of Electronics and Information Systems					

4 Master's Dissertation

Nr	Course		CRDT	Ref	MT1	Session	Study
1	E640100	Master's Dissertation	18	1		A:J	540

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
b: tri-annually	d: bi-annually, from 2025-2026	g: bi-annually, from 2026-2027	j: bi-annually, from 2027-2028
	e: tri-annually, from 2025-2026	h: tri-annually, from 2026-2027	k: tri-annually, from 2027-2028