GHENT UNIVERSITY

Study Programme

Academic year 2024-2025

Faculty of Engineering and Architecture

Bachelor of Science in Engineering Technology -- Machine and Production Automation

Campus: Courtray

Language of instruction: Dutch

Programme version 1

1 General Courses — 60 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	E610004	Mathematics I *Eric Laermans -- Department of Information Technology*	6		1	A:1	180
2	I610008	General Chemistry *Christophe Wille -- Department of Food Technology, Safety and Health*	6		1	A:1	180
3	E610014	Electricity *Kurt Stockman -- Department of Electromechanical, Systems and Metal Engineering*	6		1	A:1	180
4	E610051	Design Tools *Olivier Rysman -- Department of Industrial Systems Engineering and Product Design*	4		1	A:1	120
5	E610019	Materials *Geert De Clercq -- Department of Materials, Textiles and Chemical Engineering*	3		1	A:1	90
6	E610013	Mechanics *Michael Monte -- Department of Electromechanical, Systems and Metal Engineering*	6		1	A:J	180
7	E610052	Engineering Project *Kurt Stockman -- Department of Electromechanical, Systems and Metal Engineering*	5		1	A:J	150
8	E610005	Mathematics II *Pieter Audenaert -- Department of Information Technology*	6		1	A:2	180
9	E610016	Physics *Michael Monte -- Department of Electromechanical, Systems and Metal Engineering*	6		1	A:2	180
10	E610053	Computer Science *Helga Naessens -- Department of Information Technology*	6		1	A:2	180
11	E610054	Sustainable Energy Technologies *Jos Knockaert -- Department of Electromechanical, Systems and Metal Engineering*	3		1	A:2	90
12	E610055	Electronics *Sam Lemey -- Department of Information Technology*	3		1	A:2	90

2 General Courses — 12 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	E620100	Signals and Systems *Sam Lemey -- Department of Information Technology*	6		2	A:1	180
2	E620052	Mechanics of Materials *Michael Monte -- Department of Electromechanical, Systems and Metal Engineering*	3		2	A:1	90
3	E620702	Business Administration *Sofie Van Volsem -- Department of Industrial Systems Engineering and Product Design*	3		3	A:2	90

3 Courses Related to the Main Subject — 108 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	E620700	Design Tools II *Olivier Rysman -- Department of Industrial Systems Engineering and Product Design*	3		2	A:1	90
2	E620032	Applied Fluid Mechanics and Thermodynamics *Michel De Paepe -- Department of Electromechanical, Systems and Metal Engineering*	6		2	A:1	180

3	E620500	Object Oriented Programming *Veerle Ongenae -- Department of Information Technology*	3	2	A:1	90
4	E620400	Electronics II *Sam Lemey -- Department of Information Technology*	6	2	A:1	180
5	E620600	Electrical Systems *Jos Knockaert -- Department of Electromechanical, Systems and Metal Engineering*	3	2	A:1	90
6	E620063	Production Control *Isabel Sweertvaegher -- Department of Industrial Systems Engineering and Product Design*	6	2	A:2	180
7	E620061	Machine Design and Safety *Bart Vanwalleghem -- Department of Electromechanical, Systems and Metal Engineering*	6	2	A:2	180
8	E620062	Applied Electronics *Jos Knockaert -- Department of Electromechanical, Systems and Metal Engineering*	6	2	A:2	180
9	E620064	Electric Drives *Jos Knockaert -- Department of Electromechanical, Systems and Metal Engineering*	6	2	A:2	180
10	E620065	Electrical Design I *Jan Desmet -- Department of Electromechanical, Systems and Metal Engineering*	3	2	A:2	90
11	E620048	Statistics *Eric Laermans -- Department of Information Technology*	3	2	A:2	90
12	E630200	Production Communication *Dieter Vandenhoeke -- Department of Industrial Systems Engineering and Product Design*	6	3	A:2	180
13	E630100	Mechanical Drive Systems *Bart Vanwalleghem -- Department of Electromechanical, Systems and Metal Engineering*	6	3	A:1	180
14	E630300	Variable Speed Drives *Kurt Stockman -- Department of Electromechanical, Systems and Metal Engineering*	6	3	A:1	180
15	E630400	Electrical Design II *Steve Dereyne -- Department of Electromechanical, Systems and Metal Engineering*	6	3	A:1	180
16	E630023	Control Engineering *Kurt Stockman -- Department of Electromechanical, Systems and Metal Engineering*	6	3	A:1	180
17	E630700	Production Software *Dieter Vandenhoeke -- Department of Industrial Systems Engineering and Product Design*	6	3	A:1	180
18	E630500	Sizing of Electromechanic Drive Trains *Kurt Stockman -- Department of Electromechanical, Systems and Metal Engineering*	5	3	A:2	150
19	E630600	Kinematics and Dynamics *Michael Monte -- Department of Electromechanical, Systems and Metal Engineering*	4	3	A:2	120
20	E630800	Wireless Communication *Ingrid Moerman -- Department of Information Technology*	3	3	A:2	90
21	E630900	Rapid Control Prototyping *Bart Vanwalleghem -- Department of Electromechanical, Systems and Metal Engineering*	3	3	A:2	90
22	E630710	Bachelor's Dissertation *Johannes Cottyn -- Department of Industrial Systems Engineering and Product Design*	6	3	A:2	180

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