GHENT UNIVERSITY

Study Programme

Academic year 2023-2024

Faculty of Engineering and Architecture

Bachelor of Science in Engineering -- Civil Engineering

Language of instruction: Dutch

Programme version 5

1 General Courses — 60 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	E001142	Basic Mathematics *Hennie De Schepper -- Department of Electronics and Information Systems*	3		1	A:1	90
2	E020061	Physics I *Christophe Leys -- Department of Applied Physics*	6		1	A:1	180
3	E001132	Mathematical Analysis I *Hennie De Schepper -- Department of Electronics and Information Systems*	6		1	A:1	180
4	E001460	Discrete Mathematics I *Mario Pickavet -- Department of Information Technology*	4		1	A:1	120
5	E070070	Chemistry: the Structure of Matter *Marie-Françoise Reyniers -- Department of Materials, Textiles and Chemical Engineering*	4		1	A:1	120
6	E098513	Modelling, Making and Measuring *Filip Beunis -- Department of Electronics and Information Systems*	4		1	A:1	120
7	E015041	Informatics *Bart Dhoedt -- Department of Information Technology*	6		1	A:J	180
8	E001222	Mathematical Analysis II *Hendrik De Bie -- Department of Electronics and Information Systems*	4		1	A:2	120
9	E000662	Geometry and Linear Algebra *Hennie De Schepper -- Department of Electronics and Information Systems*	7		1	A:2	210
10	E070080	Chemical Thermodynamics *Marie-Françoise Reyniers -- Department of Materials, Textiles and Chemical Engineering*	3		1	A:2	90
11	E003043	Probability and Statistics *Jasper De Bock -- Department of Electronics and Information Systems*	6		1	A:2	180
12	E066012	Materials Technology *Kim Verbeken -- Department of Materials, Textiles and Chemical Engineering*	4		1	A:2	120
13	E098512	Sustainability, Entrepreneurship and Ethics *Filip Beunis -- Department of Electronics and Information Systems*	3		1	A:2	90

2 General Courses — 30 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	E040420	Mechanics of Materials *Wim Van Paepegem -- Department of Materials, Textiles and Chemical Engineering*	6		2	A:1	180
2	E020220	Physics II *Christophe Leys -- Department of Applied Physics*	6		2	A:1	180
3	E045120	Transport Phenomena *Tom De Mulder -- Department of Civil Engineering*	6		2	B:2	180
4	E001321	Mathematical Analysis III *Hendrik De Bie -- Department of Electronics and Information Systems*	6		2	A:1	180
5	E005020	Analysis of Systems and Signals *Gert De Cooman -- Department of Electronics and Information Systems*	3		2	B:1	90
6	E076040	Sustainable Business Operations *Ludo Poelaert -- Department of Industrial Systems Engineering and Product Design*	3		2	A:1	90

3 Courses Related to the Main Subject — 87 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	E076621	Principles of Law and Construction Law *Jelle Laverge -- Department of Architecture and Urban Planning*	3		2	A:1, B:2	90
2	E000810	Topography *Alain De Wulf -- Department of Geography*	3		2	A:1, B:2	90
3	E050410	Construction of Buildings *Jan Belis -- Department of Structural Engineering and Building Materials*	6		2	A:2	180
4	E044120	Structural Analysis I *Robby Caspeele -- Department of Structural Engineering and Building Materials*	6		2	A:2	180
5	E003230	Statistical Data Processing *Nele De Belie -- Department of Structural Engineering and Building Materials*	3		2	A:2	90
6	E061430	Computer Aided Design *Nico Van de Weghe -- Department of Geography*	3		2	A:2	90
7	E052720	Concrete Technology *Geert De Schutter -- Department of Structural Engineering and Building Materials*	3		2	A:2	90
8	E099101	Engineering Project *Karel Lesage -- Department of Structural Engineering and Building Materials*	3		2	A:2	90
9	E050310	Building Physics *Arnold Janssens -- Department of Architecture and Urban Planning*	6		3	A:1	180
10	E052412	Concrete Structures: Reinforced Concrete [en] *Roman Wan-Wendner -- Department of Structural Engineering and Building Materials*	6		3	A:1	180
11	E044220	Structural Analysis II *Kim Van Tittelboom -- Department of Structural Engineering and Building Materials*	6		3	A:1	180
12	E046010	Soil Mechanics *Wim Haegeman -- Department of Civil Engineering*	6		3	A:1	180
13	E045411	Hydraulics *Tom De Mulder -- Department of Civil Engineering*	6		3	A:1	180
14	E053510	Geometric Aspects of Roads *Hans De Backer -- Department of Civil Engineering*	3		3	A:2	90
15	E090420	Mechanical Engineering *Patrick De Baets -- Department of Electromechanical, Systems and Metal Engineering*	3		3	A:2	90
16	E044230	Structural Analysis of Geotechnical Structures *Raphaël Steenbergen -- Department of Structural Engineering and Building Materials*	3		3	A:2	90
17	E044510	Metal Structures [en, nl] *Kim Van Tittelboom -- Department of Structural Engineering and Building Materials*	6		3	A:2	180
18	E044811	Introduction to Bridge Engineering *Hans De Backer -- Department of Civil Engineering*	3		3	A:2	90
19	E051800	Contemporary Challenges in Civil Engineering: Capita Selecta [en, nl] *Robby Caspeele -- Department of Structural Engineering and Building Materials*	3		3	A:2	90
20	E099000	Cross-Course Project *Stijn Matthys -- Department of Structural Engineering and Building Materials*	6		3	A:2	180

4 Elective Courses — 3 credits

Subscribe to 3 credit units from the following list, distributed over the first standard learning path as follows: 3 credit units in year 3.
Subject to approval by the faculty.

Nr	Course		CRDT	Ref	MT1	Session	Study
1	E099160	Project Management in Construction [en] *Mario Vanhoucke -- Department of Business Informatics and Operations Management*	3		3	A:2	90
2	E711080	Building Services *Jelle Laverge -- Department of Architecture and Urban Planning*	3		3	B:2	90
3	E016350	Artificial Intelligence [en] *Aleksandra Pizurica -- Department of Telecommunications and Information Processing*	3		3	B:2	90

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