Study Programme

Academic year 2024-2025

GHENT UNIVERSITY

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

2 General Courses							30 credits
Nr	Course		CRDT	Ref	MT1	Session	Study
1	E040420	Mechanics of Materials	6		2	A:1	180
		Wim Van Paepegem -- Department of Materials, Textiles and Chemical Engineering					
2	E020220	Physics II	6		2	A:1	180
		Christophe Leys -- Department of Applied Physics					
3	E045120	Transport Phenomena	6		2	B:2	180
		Tom De Mulder -- Department of Civil Engineering					
4	E001321	Mathematical Analysis III	6		2	A:1	180
		Hendrik De Bie -- Department of Electronics and Information Systems					
5	E005020	Analysis of Systems and Signals	3		2	B:1	90
		Gert De Cooman -- Department of Electronics and Information Systems					
6	E076040	Sustainable Business Operations	3		2	A:1	90
		Birger Raa -- Department of Industrial Systems Engineering and Product Design					

3 Courses Related to the Main Subject — 87 credits

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

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]	3		3	A:2	90
		Mario Vanhoucke -- Department of Business Informatics and Operations Management					
2	E711080	Building Services	3		3	B:2	90
		Jelle Laverge -- Department of Architecture and Urban Planning					
3	E016350	Artificial Intelligence [en]	3		3	B:2	90
		Aleksandra Pizurica -- Department of Telecommunications and Information Processing					

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