

Faculty of Engineering and Architecture

Bridging Programme Master of Science in Civil Engineering

Language of instruction: English

Programme version 6

## 1 General Courses 73 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E001161 <b>Mathematic Models [nl]</b> <i>Denis Constaes -- Department of Electronics and Information Systems</i>	6	BRUG	1	A:1	180
2	E046010 <b>Soil Mechanics [nl]</b> <i>Wim Haegeman -- Department of Civil Engineering</i>	3	BRUG	1	B:1	90
3	E044940 <b>FEM and Constitutive Material Laws in Structural Engineering</b> <i>Diego Lorenzo Allaix -- Department of Structural Engineering and Building Materials</i>	3		1	B:1	90
4	E040661 <b>Structural Dynamics</b> <i>Mia Loccufer -- Department of Electromechanical, Systems and Metal Engineering</i>	5		1	B:1	150
5	E045621 <b>Groundwater and Contaminant Flow</b> <i>Herman Peiffer -- Department of Civil Engineering</i>	3		1	D:1	90
6	E045860 <b>Water Management and Environment</b> <i>Tom De Mulder -- Department of Civil Engineering</i>	5		1	B:1	150
7	E044120 <b>Structural Analysis I [nl]</b> <i>Robby Caspeele -- Department of Structural Engineering and Building Materials</i>	3	BRUG	1	B:2	90
8	E045411 <b>Hydraulics [nl]</b> <i>Tom De Mulder -- Department of Civil Engineering</i>	3	BRUG	1	B:2	90
9	E052621 <b>Concrete Structures: Prestressed Concrete and Slabs</b> <i>Roman Wan-Wendner -- Department of Structural Engineering and Building Materials</i>	4		1	B:2	120
10	E054820 <b>Inland Waterways and Locks</b> <i>Tom De Mulder -- Department of Civil Engineering</i>	4		1	D:2	120
11	E052210 <b>Geotechnics</b> <i>Bruno Stuyts -- Department of Civil Engineering</i>	5		1	B:2	150
12	E053560 <b>Specialised Road Engineering and Mobility</b> <i>Pieter De Winne -- Department of Civil Engineering</i>	4		1	C:2	120
13	E044311 <b>Structural Stability</b> <i>Robby Caspeele -- Department of Structural Engineering and Building Materials</i>	6		2	A:1	180
14	E050923 <b>Structural Reliability and Risk Analysis</b> <i>Robby Caspeele -- Department of Structural Engineering and Building Materials</i>	4		2	A:2	120
15	E054920 <b>Coastal Engineering and Harbour Construction</b> <i>Peter Troch -- Department of Civil Engineering</i>	6		2	B:1	180
16	E044821 <b>Advanced Bridge and Tunnel Engineering</b> <i>Hans De Backer -- Department of Civil Engineering</i>	6		2	A:1	180
17	E050100 <b>Design of Civil Structures</b> <i>Bart De Pauw -- Department of Civil Engineering</i>	3		2	B:2	90

## 2 Elective Courses 23 credits

Subscribe to 23 credit units elective courses. Subject to approval by the faculty.

Divided as follows:

- 20 credit units from module 2 from the programme of Master of Science in Civil Engineering (choose from module 2.1 Major Dredging and Offshore Engineering, module 2.2 Major Construction Design, module 2.3 Minor Operations Management)
- 3 credit units from module 3 from the programme of Master of Science in Civil Engineering. Pay attention: only technical electives can be chosen (module 3.1 Elective Courses Civil Engineering or technical electives from module 3.3 Elective Courses Ghent University), or an internship from module 3.2 Elective Social Courses.

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E091103 Master's Dissertation	24		2	B:J	720

#### 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 course name, using the following ISO codes:

bg: Bulgarian	de: German	es: Spanish	ja: Japanese	pl: Polish	sh: Croatian/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 is 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 2022-2023	f: annually, from 2023-2024	i: annually, from 2024-2025
b: tri-annually	d: bi-annually, from 2022-2023	g: bi-annually, from 2023-2024	j: bi-annually, from 2024-2025
	e: tri-annually, from 2022-2023	h: tri-annually, from 2023-2024	k: tri-annually, from 2024-2025