

Faculty of Engineering and Architecture

Preparatory Course Master of Science in Electronics and ICT Engineering Technology -- Embedded Systems

Language of instruction: Dutch

Programme version 2

1 General Courses

Subscribe to 1 module, depending on the previous degree, from the following list. Subject to approval by the faculty.

1.1 Intake: Bachelor of Science in Engineering Technology

1.1.1 General Courses

39 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E731039 Analogue Electronics II <i>Patrick Van Torre -- Department of Information Technology</i>	6		1	A:1	180
2	E731036 Digital Electronics <i>Jan Aelterman -- Department of Telecommunications and Information Processing</i>	6		1	A:2	180
3	E741058 Programming in C <i>Wim Van Den Breen -- Department of Information Technology</i>	3		1	A:1	90
4	E765100 Applied Artificial Intelligence <i>Sofie Van Hoecke -- Department of Electronics and Information Systems</i>	3		1	A:1	90
5	E731028 Data Communication <i>Jo Verhaevert -- Department of Information Technology</i>	3		1	A:2	90
6	E731025 Digital Signal Processing <i>Paul Devos -- Department of Information Technology</i>	6		1	A:2	180
7	E702100 Computer Hardware <i>Wim Van Den Breen -- Department of Information Technology</i>	6		1	A:1	180
8	E731037 Embedded Systems: Hardware Synthesis <i>Bart Goossens -- Department of Telecommunications and Information Processing</i>	6		1	A:1	180

1.1.2 General Courses depending on the previous degree

Subscribe to no more than 51 credit units from the Bachelor of Science in Engineering Technology, Main subject: Electronics and ICT Engineering Technology, depending on the student's previous degree. Subject to approval by the faculty.

1.2 Intake: Bachelor of Science in Engineering Physics, Bachelor of Science in Engineering, main subject Engineering Physics

1.2.1 General Courses

39 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E731039 Analogue Electronics II <i>Patrick Van Torre -- Department of Information Technology</i>	6		1	A:1	180
2	E731036 Digital Electronics <i>Jan Aelterman -- Department of Telecommunications and Information Processing</i>	6		1	A:2	180
3	E741058 Programming in C <i>Wim Van Den Breen -- Department of Information Technology</i>	3		1	A:1	90
4	E765100 Applied Artificial Intelligence <i>Sofie Van Hoecke -- Department of Electronics and Information Systems</i>	3		1	A:1	90
5	E731028 Data Communication <i>Jo Verhaevert -- Department of Information Technology</i>	3		1	A:2	90

6	E731025	Digital Signal Processing <i>Paul Devos -- Department of Information Technology</i>	6	1	A:2	180
7	E702100	Computer Hardware <i>Wim Van Den Breen -- Department of Information Technology</i>	6	1	A:1	180
8	E731037	Embedded Systems: Hardware Synthesis <i>Bart Goossens -- Department of Telecommunications and Information Processing</i>	6	1	A:1	180

1.2.2 General Courses depending on the previous degree

Subscribe to no more than 51 credit units from the Bachelor of Science in Engineering Technology, Main subject: Electronics and ICT Engineering Technology, depending on the student's previous degree. Subject to approval by the faculty.

1.3 Intake: Bachelor of Science in Electrical Engineering, Bachelor of Science in Engineering, main subject Electrical Engineering

1.3.1 General Courses 39 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E731039 Analogue Electronics II <i>Patrick Van Torre -- Department of Information Technology</i>	6		1	A:1	180
2	E731036 Digital Electronics <i>Jan Aelterman -- Department of Telecommunications and Information Processing</i>	6		1	A:2	180
3	E741058 Programming in C <i>Wim Van Den Breen -- Department of Information Technology</i>	3		1	A:1	90
4	E765100 Applied Artificial Intelligence <i>Sofie Van Hoecke -- Department of Electronics and Information Systems</i>	3		1	A:1	90
5	E731028 Data Communication <i>Jo Verhaever -- Department of Information Technology</i>	3		1	A:2	90
6	E731025 Digital Signal Processing <i>Paul Devos -- Department of Information Technology</i>	6		1	A:2	180
7	E702100 Computer Hardware <i>Wim Van Den Breen -- Department of Information Technology</i>	6		1	A:1	180
8	E731037 Embedded Systems: Hardware Synthesis <i>Bart Goossens -- Department of Telecommunications and Information Processing</i>	6		1	A:1	180

1.3.2 General Courses depending on the previous degree

Subscribe to no more than 51 credit units from the Bachelor of Science in Engineering Technology, Main subject: Electronics and ICT Engineering Technology, depending on the student's previous degree. Subject to approval by the faculty.

1.4 Intake: Bachelor of Science in Computer Science Engineering, Bachelor of Science in Engineering, main subject Computer Science Engineering

1.4.1 General Courses 39 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E731039 Analogue Electronics II <i>Patrick Van Torre -- Department of Information Technology</i>	6		1	A:1	180
2	E731036 Digital Electronics <i>Jan Aelterman -- Department of Telecommunications and Information Processing</i>	6		1	A:2	180
3	E741058 Programming in C <i>Wim Van Den Breen -- Department of Information Technology</i>	3		1	A:1	90
4	E765100 Applied Artificial Intelligence <i>Sofie Van Hoecke -- Department of Electronics and Information Systems</i>	3		1	A:1	90
5	E731028 Data Communication <i>Jo Verhaever -- Department of Information Technology</i>	3		1	A:2	90
6	E731025 Digital Signal Processing <i>Paul Devos -- Department of Information Technology</i>	6		1	A:2	180
7	E702100 Computer Hardware <i>Wim Van Den Breen -- Department of Information Technology</i>	6		1	A:1	180
8	E731037 Embedded Systems: Hardware Synthesis <i>Bart Goossens -- Department of Telecommunications and Information Processing</i>	6		1	A:1	180

1.4.2 General Courses depending on the previous degree

Subscribe to no more than 51 credit units from the Bachelor of Science in Engineering Technology, Main subject: Electronics and ICT Engineering Technology, depending on the student's previous degree. Subject to approval by the faculty.

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 2026-2027	f: annually, from 2027-2028	i: annually, from 2028-2029
b: tri-annually	d: bi-annually, from 2026-2027	g: bi-annually, from 2027-2028	j: bi-annually, from 2028-2029
	e: tri-annually, from 2026-2027	h: tri-annually, from 2027-2028	k: tri-annually, from 2028-2029