

Study Programme

Academic year 2025-2026

Faculty of Engineering and Architecture

Bridging Programme Master of Science in Sustainable Materials Engineering

Language of instruction: English

Programme version 3

1	Genera	Courses				78	credits
Nr	Course		CRDT	Ref	MT1	Session	Study
1	E001161	Mathematic Models Karel Van Acoleyen Department of Electronics and Information Systems	6	BRUG	1	A:1	180
2	E078310	Sustainable Use of Materials: Metals [nl] Kim Verbeken Department of Materials, Textiles and Chemical Engineering	3	BRUG	1	A:1	90
3	E068900	Structure and Dynamics of Polymers Karen De Clerck Department of Materials, Textiles and Chemical Engineering	6		1	B:1	180
4	E069041	Bio-based and Synthetic Fibres Karen De Clerck Department of Materials, Textiles and Chemical Engineering	6		1	A:1	180
5	E065340	Micro-analysis and Structure Determination in Materials Science	6		1	A:2	180
6	E078320	Sustainable Use of Materials: Plastics and Derived Materials [nl] Lode Daelemans Department of Materials, Textiles and Chemical Engineering	3	BRUG	1	A:2	90
7	E065472	Metal Extraction and Recycling Inge Bellemans Department of Materials, Textiles and Chemical Engineering	6		1	A:2	180
8	E071400	Computer Aided Materials Engineering Lode Daelemans Department of Materials, Textiles and Chemical Engineering	6		1	A:1	180
9	E064221	Design and Manufacturing of Textile Structures Lieva Van Langenhove Department of Materials, Textiles and Chemical Engineering	6		1	A:2	180
10	E066662	Environmentally Assisted Degradation of Materials Kim Verbeken Department of Materials, Textiles and Chemical Engineering	6		1	A:2	180
11	E042740	Fracture and Deformation Behaviour of Materials Leo Kestens Department of Electromechanical, Systems and Metal Engineering	6		2	B:1	180
12	E900069	Composites Wim Van Paepegem Department of Materials, Textiles and Chemical Engineering	6		2	A:1	180
13	E066230	Microstructure-Property Control of Metals Leo Kestens Department of Electromechanical, Systems and Metal Engineering	6		2	A:2	180
1.1 General Courses for Metal Science and Engineering 6 credits							
		e general courses below when Major Metal Science and Engineering is chose					
Nr 1	Course E066020	Microstructure of Materials [nl]	CRDT 6	Ref BRUG	MT1 1	Session A:2	Study 180
I	E000020	Marcel Sluiter Department of Electromechanical, Systems and Metal Engineering	0	DRUG	I	R.Z	100
1.	2 Genera	al Courses for Polymers and Fibre Structures				6	credits
		e general courses below when Major Polymers and Fibre Structures is chosen	n.				
	Course		CRDT	Ref	MT1	Session	Study
1	E069110	Advanced Fibres and Derived Materials [nl] Lode Daelemans Department of Materials, Textiles and Chemical Engineering	6	BRUG	1	A:2	180
2	Majors					18	credits
		najor from the following list. Subject to approval by the faculty. Metal Science and Engineering				18	credits
	Course		CRDT	Ref	MT1	Session	Study

1 E066270	Metal Processing and Technology Leo Kestens Department of Electromechanical, Systems and Metal Engineering	6	2	A:2	180
2 E066170	Physical Materials Science Leo Kestens Department of Electromechanical, Systems and Metal Engineering	6	2	C:1	180
3 E024122	Computational Materials Physics Stefaan Cottenier Department of Electromechanical, Systems and Metal Engineering	6	2	A:2	180
2.2 Major	Polymer and Fibre Engineering			18	credits
Nr Course		CRDT R	ef MT1	Session	Study
1 E064761	Textile Functionalization Karen De Clerck Department of Materials, Textiles and Chemical Engineering	6	2	A:2	180
2 E064201	Technical Textiles Lieva Van Langenhove Department of Materials, Textiles and Chemical Engineering	6	2	A:1	180
3 E064961	Polymer Processing and Circularity Dagmar D'hooge Department of Materials, Textiles and Chemical Engineering	6	2	A:2	180
3 Master's Dissertation					credits
Nr Course		CRDT R	ef 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 cours name, using the following ISO codes:

	bg: Bulgarian cs: Czech da: Danish	de: German el: Greek en: English	es: Spanish fr: French it: Italian	ja: Japanese nl: Dutch no: Norwegian	pl: Polish pt: Portuguese ru: Russian	sh: Kroatian/Serbian sl: Slovene sv: Swedish	zh: Chinese
--	--	--	--	--	---	--	-------------

Semester

01-07-2025 22:58

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

i: annually, from 2028-2029 j: bi-annually, from 2028-2029

k: tri-annually, from 2028-2029