

Faculty of Engineering and Architecture

Master of Science in Electrical Engineering Technology -- Automation

Language of instruction: Dutch

Programme version 14

1 General Courses 18 credits

| Nr | Course | CRDT | Ref | MT1 | Session | Study |
|----|---|------|-----|-----|---------|-------|
| 1 | E745022 Data Aquisition <i>Guillaume Crevecoeur -- Department of Electromechanical, Systems and Metal Engineering</i> | 3 | | 1 | A:1 | 90 |
| 2 | E745024 Advanced Electric Drives <i>Peter Sergeant -- Department of Electromechanical, Systems and Metal Engineering</i> | 6 | | 1 | A:1 | 170 |
| 3 | E755009 Regulation Technique <i>Jan Beyens -- Department of Information Technology</i> | 6 | | 1 | A:1 | 170 |
| 4 | E755060 Servo Systems and Robotics <i>Tom Lefebvre -- Department of Electromechanical, Systems and Metal Engineering</i> | 3 | | 1 | A:2 | 90 |

2 Courses Related to the Main Subject 33 credits

| Nr | Course | CRDT | Ref | MT1 | Session | Study |
|----|--|------|-----|-----|---------|-------|
| 1 | E755080 Web Technologies <i>Veerle Ongenaes -- Department of Information Technology</i> | 3 | | 1 | A:1 | 90 |
| 2 | E755070 Smart Instrumentation <i>Paul Devos -- Department of Information Technology</i> | 6 | | 1 | A:1 | 180 |
| 3 | E736050 Embedded Computer Vision <i>Hiep Luong -- Department of Telecommunications and Information Processing</i> | 6 | | 1 | A:2 | 180 |

2.1 Master's Dissertation

| Nr | Course | CRDT | Ref | MT1 | Session | Study |
|----|-------------------------------|------|-----|-----|---------|-------|
| 1 | E705002 Master's Dissertation | 18 | | 1 | A:J | 540 |

3 Elective Courses 9 credits

Subscribe to 9 credit units from the following list. Subject to approval by the faculty.
Only one course with reference a is allowed.

| Nr | Course | CRDT | Ref | MT1 | Session | Study |
|----|---|------|-----|-----|---------|-------|
| 1 | E755008 Production of Electrical Energy <i>Christof Dauwels -- Department of Electromechanical, Systems and Metal Engineering</i> | 3 | | | A:1 | 85 |
| 2 | E755040 Smart Grids <i>Lieven Vandeveldde -- Department of Electromechanical, Systems and Metal Engineering</i> | 6 | | | A:1 | 180 |
| 3 | E755018 CAD Electrotechnology: Business Case <i>Guillaume Crevecoeur -- Department of Electromechanical, Systems and Metal Engineering</i> | 6 | | | A:2 | 180 |
| 4 | E735090 Applied Machine Learning <i>Sofie Van Hoecke -- Department of Electronics and Information Systems</i> | 6 | | | A:1 | 180 |
| 5 | E053642 Railway Technology Fundamentals [en] <i>Hendrik Bonne -- Department of Electromechanical, Systems and Metal Engineering</i> | 3 | | | A:2 | 90 |
| 6 | E053643 Advanced Railway Technology [en] <i>Hendrik Bonne -- Department of Electromechanical, Systems and Metal Engineering</i> | 3 | | | A:2 | 90 |
| 7 | E721046 Environmental Management <i>Diederik Rousseau -- Department of Green Chemistry and Technology</i> | 3 | | | A:1 | 90 |
| 8 | E745027 Sustainable Engineering Techniques [en] <i>Tom Depover -- Department of Materials, Textiles and Chemical Engineering</i> | 3 | | | A:1 | 90 |

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|----|---------|--|---|-----|----------|-----|
| 9 | E741057 | Thermal Energy: Installation Components <i>Wim Beyne -- Department of Electromechanical, Systems and Metal Engineering</i> | 4 | | A:2 | 120 |
| 10 | E735027 | Biomedical Electronics <i>Paul Devos -- Department of Information Technology</i> | 3 | | A:1 | 90 |
| 11 | F001020 | Introduction to Entrepreneurship [en] <i>Petra Andries -- Department of Marketing, Innovation and Organisation</i> | 3 | | A:1 | 90 |
| 12 | F001021 | Basic Entrepreneurship <i>Evy Van Lancker -- Department of Marketing, Innovation and Organisation</i> | 3 | UKV | A:1 | 90 |
| 13 | F001022 | Dare to Venture [en] <i>Johan Verrue -- Department of Marketing, Innovation and Organisation</i> | 4 | | A:2 | 120 |
| 14 | E076471 | Dare to Start [en] <i>Wouter Haerick -- Department of Information Technology</i> | 3 | | A:2 | 90 |
| 15 | A003001 | Academic English [en] <i>Geert Jacobs -- Department of Linguistics</i> | 3 | UKV | B:1, A:2 | 90 |
| 16 | I003062 | Sustainability Assessment [en] <i>Sophie Huysveld -- Department of Green Chemistry and Technology</i> | 3 | | A:1 | 90 |
| 17 | E745050 | Vehicle Technology <i>Frédéric Maes -- Department of Electromechanical, Systems and Metal Engineering</i> | 3 | | A:2 | 90 |
| 18 | E099600 | Industry Internship Engineering Technology [en, nl] <i>Patrick Segers -- Department of Electronics and Information Systems</i> | 6 | a | A:J | 180 |
| 19 | E099600 | Industry Internship Engineering Technology [en, nl] <i>Patrick Segers -- Department of Electronics and Information Systems</i> | 3 | a | B:J | 90 |
| 20 | E099400 | Research Internship [en] <i>Patrick Segers -- Department of Electronics and Information Systems</i> | 6 | a | A:J | 180 |
| 21 | E099400 | Research Internship [en] <i>Patrick Segers -- Department of Electronics and Information Systems</i> | 3 | a | B:J | 90 |
| 22 | E098010 | Integrated Portfolio [en, nl] <i>Hiep Luong -- Department of Telecommunications and Information Processing</i> | 3 | a | B:J | 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 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 |