

Faculty of Engineering and Architecture

Preparatory Course European Master of Science in Nuclear Fusion and Engineering Physics

Language of instruction: Dutch

Programme version 7

## 1 General Courses

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

### 1.1 Previous degree: BSc in Engineering 12 credits

| Nr | Course                                                                                   | CRDT | Ref | MT1 | Session | Study |
|----|------------------------------------------------------------------------------------------|------|-----|-----|---------|-------|
| 1  | E023010 Quantum Mechanics I<br><i>Louis Vanduyfhuys -- Department of Applied Physics</i> | 6    |     | 1   | A:2     | 180   |
| 2  | E045120 Transport Phenomena<br><i>Tom De Mulder -- Department of Civil Engineering</i>   | 6    |     | 1   | B:2     | 180   |

### 1.2 Previous degree: MSc in Engineering Technology 37 credits

| Nr | Course                                                                                                                | CRDT | Ref | MT1 | Session | Study |
|----|-----------------------------------------------------------------------------------------------------------------------|------|-----|-----|---------|-------|
| 1  | E000662 Geometry and Linear Algebra<br><i>Hennie De Schepper -- Department of Electronics and Information Systems</i> | 7    |     | 1   | A:2     | 210   |
| 2  | E003043 Probability and Statistics<br><i>Jasper De Bock -- Department of Electronics and Information Systems</i>      | 6    |     | 1   | A:2     | 180   |
| 3  | E020220 Physics II<br><i>Christophe Leys -- Department of Applied Physics</i>                                         | 6    |     | 1   | A:1     | 180   |
| 4  | E001161 Mathematic Models [en]<br><i>Karel Van Acoleyen -- Department of Electronics and Information Systems</i>      | 6    |     | 1   | A:1     | 180   |
| 5  | E023010 Quantum Mechanics I<br><i>Louis Vanduyfhuys -- Department of Applied Physics</i>                              | 6    |     | 1   | A:2     | 180   |
| 6  | E045120 Transport Phenomena<br><i>Tom De Mulder -- Department of Civil Engineering</i>                                | 6    |     | 1   | B:2     | 180   |

#### 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 |