# Master's curriculum Applied Physic 2026-2027

**For side-entry students hbo-EE and hbo-TN**

**Premaster programme**

| Course code | Name | Planning | EC |
|---|---|---|---|
| 202001172 | Calculus A for pre masters | Q1/1A | 4 |
| 202001178 | Linear Algebra | Q1/1A | 3 |
| 202400597 | Models | Q1/1A | 4,5 |
| 202000660 | Introduction Solid State Physics | Q1/1A | 5 |
| 202001174 | Calculus B for pre masters | Q2/1B | 3 |
| 202300014 | Quantum Mech. and Analytical Programming | Q2/1B | 6 |
| 202001485 | Optics Theory | Q21B | 4,5 |
| | | | **30** |

**First (M1) and second year (M2)**

**Homologation courses**

| Course code | Name | Planning | EC |
|---|---|---|---|
| 202200095 | Hilbert Space | Q2/1B | 3 |
| 202000682 | Elektriciteit en Magnetisme | Q3/2A | 5 |
| 202000703 | Partial Differential Equations | Q3/2A | 2 |
| 202600250 | Statistical Physics | Q3/2A | 5 |
| 202000706 | Electrodynamics | Q4/2B | 6 |
| 202300023 | Fluid Physics Theory | Q4/2B | 4,5 |
| 202300024 | Fluid Physics Practicals | Q4/2B | 2,5 |
| 202000707 | Numerical Methods for PDE | Q4/2B | 2 |
| | | | **30** |

**Compulsory courses**

| Course code | Name | Planning | EC |
|---|---|---|---|
| 202200093 | Quantum Mechanics 2 | Q1/1A | 5,0 |
| 201900080 | Mathematical and Numerical Physics | Q2/1B | 5,0 |
| 191470241 | Heat and Mass Transfer | Q3/2A | 5,0 |
| 201900282 | Small Signals and Detection | Q4/2B | 4,0 |
| 201900281 | Ethical and Cultural Awareness | Q4/2B | 1,0 |
| | | | **20** |

**Elective and specialisation courses**

| | | | |
|---|---|---|---|
| | Electives physics/technical [1] | | 10,0 |
| | Specialisation courses [2] | | 20,0 |
| | | | **30,0** |

| **Master's Assignement** | | | **40** |
|---|---|---|---|
| 201800344 | Master's Assignment: Physics Aspects | Year | 20,0 |
| 201800345 | Master's Assignment: General Aspects | Year | 20,0 |
| | | **Total master** | **120** |

[1] *A Capita Selecta is an elective course offered within a physics department, in which students explore a specific or specialized topic that is not part of the standard curriculum. The student defines the learning objectives, content, and assessment criteria in consultation with the examiner. Subsequently, approval must be requested from the programme director using this form. Upon approval, the Capita Selecta may be included in the Physics/technical electives part.*

[2] *The specialisations and courses can be found in the Master AP curriculum.*
*See the Curriculum and Study programme MSc Applied Physics website*