# Master's curriculum Applied Physic 2024-2025

**For side-entry students hbo-EE and hbo-TN enrolled in academic year 2024-2025**

## Premaster programme

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

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

### Homologation courses

| Course code | Name | Planning | EC |
|---|---|---|---|
| 202200095 | Hilbert Space | | 3 |
| 202000682 | Elektriciteit en Magnetisme | | 5 |
| 202000703 | Partial Differential Equations | | 2 |
| 202000702 | Statistical Physics | | 6 |
| 202000706 | Electrodynamics | | 6 |
| 202300023 | Fluid Physics Theory | | 4,5 |
| 202300024 | Fluid Physics Practicals | | 2,5 |
| 202000707 | Numerical Methods for PDE | | 2 |
| | | | **31** |

### 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 |
| | | | **20,0** |

### Elective and specialisation courses

| | | | |
|---|---|---|---|
| | Electives physics/technical | | 10,0 |
| | Specialisation courses[1] | | 19,0 |
| | | | **29,0** |

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