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	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
202000702	Statistical Physics	Q3/2A	6
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
			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