Applied Physics, M.Sc., PO 2026

1	2	3
Particles and Quanta (5 CP) (winter semester)	Statistical and Solid State Physics (5 CP) (summer semester)	Master's Thesis (incl. Colloquium) (30 CP) (every semester)
Modelling and Experiment Design (5 CP) (winter semester)	Electrodynamics and Photonics (5 CP) (summer semester)	
Selection from Specialisation (20 CP) (every semester)		
Advanced Mathematics (5 CP) (every semester)	Research Project (10 CP) (every semester)	
Elective Professional Skills (5 CP) (every semester)		

Students with 50+ CP in this program may enter the Master’s Thesis

Legend

	Physics
	Mathematics
	Scientific Work / Research
	Elective Specialisation
	Elective Professional Skills
	Economy / Business
	Language
	Technologies

Electives Specialisation (winter semester)	Electives Specialisation (summer term)	Title of Specialisation (if both modules selected)
Laser Physics (5 CP) (winter semester)	Quantum Physics and Technology (5 CP) (summer semester)	"Photonics and Quantum Technology"
Microfluidics and Microfabrication (5 CP) (winter semester)	Surfaces and Nanotechnology (5 CP) (summer semester)	"Micro- and Nano-Technology"
Sustainable Energy Systems (5 CP) (winter semester)	Energy System Components and Signal Processing (5 CP) (summer semester)	"Energy and Hydrogen Technology"

Electives Professional Skills (1 of 5)
Comprehensive Competencies (5 CP) (every semester)
Innovation Management & Entrepreneurship (5 CP) (summer semester)
AI Laboratory (5 CP) (summer semester)
German as a Foreign Language 1 (5 CP) (every semester)
Scientific Communication (5 CP) (winter semester)